

	NIJ
Special	REPORT
Test Results for Digital Data Acquisition Tool: DCCIdd (Version 2.0)	

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Test Results for Digital Data Acquisition Tool: DCCIdd (Version 2.0, June 1 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 and Information Technology Laboratory. CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, the 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 **DCCIdd**, version 2.0, 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: DCCIdd Version: 2.0

Run Environment: Helix Linux Boot CD

Supplier: DoD Cyber Crime Institute (DCCI)

Address: DoD Cyber Crime Institute

http://www.dc3.mil/

dcci@dc3.mil

1. Results Summary

Except for two test cases, the tested tool acquired all visible and hidden sectors completely and accurately from the test media. The two exceptions are the following:

- 1. Up to seven sectors contiguous to a faulty sector may be replaced by zeros in the acquisition.
- 2. The sectors hidden by a *Device Configuration Overlay* (DCO) are not acquired.

2. Test Case Selection

Not all test cases or test assertions are appropriate for all tools. In addition to all required cases, each remaining test case is linked to optional tool features needed for the test case. If a given tool implements a given feature, then the test cases linked to that feature are run. Table 1 lists the features available in DCCIdd and the linked test cases. Table 2 lists the features not available in DCCIdd and the linked test cases.

Table 1 Selected Test Cases

Supported Optional Feature	Cases selected for execution
Base Cases	06, 07, 08 & 12
Create a clone during acquisition	01, 02 & 04
Read error during acquisition	09
Create a clone from an image file	14 & 17

Table 2 Omitted Test Cases

Unsupported Optional Feature	Cases omitted (not executed)
Create cylinder aligned clones	03, 15, 21 & 23
Create an image file in more than one format	10
Convert an image file from one format to	26
another	
Destination device switching	13

Unsupported Optional Feature	Cases omitted (not executed)
Device I/O error generator available	05, 11 & 18
Fill excess sectors on a clone device	19, 20, 21, 22 & 23
Create a clone from a subset of an image file	16
Detect a corrupted (or changed) image file	24 & 25

Some test cases have variant forms to accommodate 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. In addition, a digital source defines the type of object acquired. The access interface for the source must be specified. Additional test parameters include the file system type for creation of the image file and the access interface used to write to a clone. Variations were also created for AO–02, image file format, and AO–09, image format conversion.

The tool was executed in the Helix (Linux) run time environment. The output of the **uname** -a command is: Linux Knoppix 2.6.14-Helix #1 SMP Sat Nov 19 19:54:49 CET 2005 i686 GNU/Linux

The following source interfaces were tested: ATA28, ATA48, SATA28, SATA48, SCSI, USB, and Firewire.

The following digital sources were tested: partitions (FAT12, FAT16, FAT32, FAT32X, EXT2, NTFS, and Linux Swap), flash card, and thumb drive.

The image files were created on FAT32X partitions.

The following interfaces were used for clone creation: ATA28, ATA48, SATA28, SATA48, SCSI, USB, and Firewire.

3. Results by Test Assertion

Table 3 summarizes the test results by assertion. The column labeled **Assertions Tested** gives the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where the anomaly is discussed. Two test assertions only apply in special circumstances. The assertion AO–22 is checked only for tools that create block hashes. This assertion does apply to DCCIdd. 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.

Table 3 Results Summary by Assertion

Assertions Tested	Tests	Anomaly
AM-01 The tool uses access interface SRC-AI to access the digital source.	38	
AM–02 The tool acquires digital source DS.	38	
AM–03 The tool executes in execution environment XE.	55	
AM–04 If clone creation is specified, the tool creates a clone of the digital source.	17	
AM-05 If image file creation is specified, the tool creates an image file on file system	21	
type FS.		
AM–06 All visible sectors are acquired from the digital source.	37	
AM–07 All hidden sectors are acquired from the digital source.	3	3.1
AM-08 All sectors acquired from the digital source are acquired accurately.	37	3.2
AM-09 If unresolved errors occur while reading from the selected digital source, the	1	
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	1	
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	20	
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	1	
destination device to contain the image file, the tool shall notify the user.		
AO-05 If the tool creates a multifile image of a requested size then all the individual	20	
files shall be no larger than the requested size.		
AO–11 If requested, a clone is created during an acquisition of a digital source.	17	
AO–12 If requested, a clone is created from an image file.	17	
AO–13 A clone is created using access interface DST–AI to write to the clone device.	34	
AO-14 If an unaligned clone is created, each sector written to the clone is accurately	33	
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.	17	
AO-19 If there is insufficient space to create a complete clone, a truncated clone is	2	
created using all available sectors of the clone device.		
AO–20 If a truncated clone is created, the tool notifies the user.	2	
AO–22 If requested, the tool calculates block hashes for a specified block size during	37	
an acquisition for each block acquired from the digital source.		
AO–23 If the tool logs any log significant information, the information is accurately	55	
recorded in the log file.		
AO-24 If the tool executes in a forensically safe execution environment, the digital	38	
source is unchanged by the acquisition process.		

Table 4 lists the assertions that were not tested, usually due to the tool not supporting some optional feature, e.g., creation of cylinder aligned clones.

Table 4 Assertions Not Tested

Assertions Not Tested
AO-02 If an image file format is specified, the tool creates an image file in the specified format.
AO–03 If there is an error while writing the image file, the tool notifies the user.
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-07 If the tool performs an image file integrity check on an image file that has been changed since the

Assertions Not Tested

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-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-10 If there is insufficient space to contain all files of a multifile image and if destination device switching is supported, the image is continued on another device.

AO-15 If an aligned clone is created, each sector within a contiguous span of sectors from the source is accurately written to the same disk address on the clone device relative to the start of the span as the sector occupied on the original digital source. A span of sectors is defined to be either a mountable partition or a contiguous sequence of sectors not part of a mountable partition. Extended partitions, which may contain both mountable partitions and unallocated sectors, are not mountable partitions.

AO-16 If a subset of an image or acquisition is specified, all the subset is cloned.

AO-18 If requested, a benign fill is written to excess sectors of a clone.

AO-21 If there is a write error during clone creation, the tool notifies the user.

3.1 Acquisition of HPA and DCO

The tool does not remove either *Host Protected Areas* (HPAs) or DCOs. However, the Helix test environment automatically removed the HPA on the test drive, allowing the tool to image sectors hidden by an HPA.

3.2 Acquisition of Faulty Sectors

In typical forensic operations, DCCIdd is executed with the **sync** and **noerror** options. In such operations, if DCCIdd encounters a faulty sector (i.e., a sector that cannot be read) on a source drive, a sector of zeros is returned in place of the data that could not be read. In addition to the unreadable sector, a contiguous run of adjacent sectors are also acquired as zeros. For a drive imaged through the ATA interface, the tool behaves as if the drive being imaged is divided into contiguous runs of eight sectors each. If there are one or more faulty sectors within a given run, then the entire run is treated as defective by the tool and each byte of the entire run of eight sectors is acquired as zeros. It should be noted that only the ATA interface on Linux (2.6.14-Helix) was used in the testing of DCCIdd. Other interfaces (e.g., USB, Firewire, or SCSI) or other operating systems (e.g., FreeBSD or a different version of Linux) may exhibit other behavior (e.g., a different run length).

The starting and ending sectors of the run observed using the ATA interface in Linux can be calculated from the address of a defective sector as follows:

- 1. Let *x* be the address of a faulty sector.
- 2. Write *x* in octal.
- 3. Replace the right most digit of x with zero. This is the starting address of the run.
- 4. Add 7 to the starting address of the run. This is the ending address of the run.

For example, suppose sector 18,652,594 is faulty. This address in octal is: 107 116 662. The starting address of the enclosing run is 107 116 660 (octal), 18,652,592 (decimal). The last sector of the run is 107 116 660 + 7 which equals 107 116 667 (octal) or 18,652,599 (decimal).

Test case **da-09** uses a hard drive with 54 known defective sectors. Table 5 presents a list of the defective sectors along with a list of the sectors filled with zeros. The defective sectors are listed in the column labeled **LBA of Faulty Sector**. The beginning and ending sectors of the enclosing eight sector block are listed in the column labeled **8 Sector Block** (**From–To**). Nine of the faulty sectors fall within the same enclosing eight sector blocks and are designated by the comment *Overlapping range* in the column. The actual differences between the source drive and the sectors acquired by the tool are recorded in the column labeled **Zero Filled**. In one case there are two adjacent 8 sector blocks reported by the tool as a single 16 sector range. The 54 faulty sectors yield 45 unique 8 sector blocks, a total of 360 sectors.

Table 5 Acquisition of Faulty Sectors

LBA of Faulty Sector	8 Sector Block (From-To)	Zero Filled
10069095	10069088-10069095	10069088–10069095
10069911	10069904–10069911	10069904–10069911
12023808	12023808-12023815	12023808-12023815
18652594	18652592–18652599	18652592–18652599
18656041	18656040-18656047	18656040–18656047
18656857	18656856–18656863	18656856–18656863
18660303	18660296-18660303	18660296–18660303
18661119	18661112–18661119	18661112–18661119
19746716	19746712–19746719	19746712–19746719
19746717	Overlapping range	19746712–19746719
22233904	22233904-22233911	22233904–22233911
23098370	23098368–23098375	23098368–23098375
23383001	23383000-23383007	23383000–23383007
24102466	Overlapping range	24102464–24102471
24102467	24102464–24102471	24102464–24102471
24104250	24104248–24104255	24104248–24104255
24106656	24106656–24106663	24106656–24106663
24107458	24107456–24107463	24107456–24107463
28959971	28959968–28959975	28959968–28959975
28959972	Overlapping range	28959968–28959975
41825791	41825784-41825791	41825784-41825791
41828995	41828992–41828999	41828992–41828999
52654580	52654576-52654583	52654576-52654583
52655318	52655312-52655319	52655312-52655319
60522984	60522984–60522991	60522984–60522991
68643842	68643840–68643847	68643840–68643847
68643843	Overlapping range	68643840–68643847
69973290	69973288–69973295	69973288–69973295
72714626	72714624–72714631	72714624–72714631
72715293	72715288–72715295	72715288–72715295

LBA of Faulty Sector	8 Sector Block (From-To)	Zero Filled
82148809	82148808-82148815	82148808-82148815
82148810	Overlapping range	82148808-82148815
83810525	83810520-83810527	83810520-83810527
85310861	85310856-85310863	85310856-85310863
85313430	85313424-85313431	85313424-85313431
85314038	85314032-85314039	85314032-85314039
85314039	Overlapping range	85314032–85314039
86321211	86321208-86321215	86321208-86321215
86323780	86323776–86323783	86323776–86323783
87186066	87186064-87186071	87186064-87186071
87856313	87856312–87856319	87856312–87856319
87856922	87856920–87856927	87856920-87856927
97191260	97191256–97191263	97191256–97191263
97191261	Overlapping range	97191256–97191263
100093150	100093144-100093151	100093144-100093151
100093151	Overlapping range	100093144-100093151
103861021	103861016–103861023	103861016–103861023
109706975	109706968-109706975	Adjacent ranges
109706976	109706976–109706983	109706968-109706983
110347947	110347944-110347951	110347944-110347951
110350122	110350120-110350127	110350120-110350127
110350123	Overlapping range	110350120-110350127
115664758	115664752–115664759	115664752–115664759
115835518	115835512-115835519	115835512-115835519

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.

Frank 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 PentiumTM 4 CPU 3.4Ghz

2577972KB RAM

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 and **JohnStone** have the following configuration:

Intel® Desktop Motherboard FIC IC–VL67 (865G; S478; 800MHz) BIOS Phoenix Award version v6.00PG Intel PentiumTM 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

Charlie has the following configuration:

Asus P4P8T Intel® Motherboard (865G/ICH 5 chipsets, FSB 800/533/400MHz)
BIOS AMIBIOS© American Megatrends Asus P4P8T–SP ACPI BIOS revision 1003
Intel PentiumTM 4 CPU, 3GHZ
1 GB RAM
Plextor DVDR PX–716A, ATAPI CD/DVD–ROM drive
WDC WD800JB–00JJC0, 80 GB ATA disk drive
Five IEEE 1394 ports
Six USB ports
Memory Card reader

Paladin, AndWife, and McCloud have the following configuration:

Intel D845WNL Motherboard
BIOS version HV84510A.86A.0022.P05
Intel Pentium IV 2.0Ghz
512672k RAM
Adaptec 29160 SCSI Adapter card
Tekram DC-390U3W SCSI Adapter card
Plextor CR-RW PX-W124TS Rev: 1.06
LG 52X CDROM
1.44MB floppy drive
Three slots for removable IDE hard disk drives
Two slots for removable SCSI hard disk drive

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 the **Log File Highlights** box of the test report summary.

5.1 Test Results Report Key

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

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

5.2 Test Details

5.2.1 DA-01-ATA28

	01-ATA28 DCCIDD Version 2.0
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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-ATA28 DCCIDD Version 2.0
	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:	McCloud
Test Date:	Wed Sep 13 12:38:31 2006
Drives:	src(44) dst (82) other (none)
Source	src hash (SHA1): < E196D36E7B322C0EF83923112AD1800581742B6E >
Setup:	src hash (MD5): < 80ADAC781152642E8DF7B7C9A8ABF95 > 78165360 total sectors (40020664320 bytes) 65535/016/63 (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
Log Highlights:	Destination setup 156301488 sectors wiped with 82 Comparision of original to clone Drive Sectors compared: 78165360 Sectors match: 78165360 Sectors differ: 0 Bytes differ: 0 Diffs range Source (78165360) has 78136128 fewer sectors than destination (156301488)
	Zero fill: Src Byte fill (44): Dst Byte fill (82): 78136128 Other fill: Other no fill: Other no fill: Src fill range: Src fill range: Src fill range: Other fill range: Other fill range: Other fill range: Other not filled range: Other not filled range: Hash Window 2001033216 bytes, Algorithms: SHAl Block hashes from tool for SHAl 1 F91A7C4CDBCD296180ABB292B34BF1ABBF409D94 2 63F9BFE630D91AA5B164E3A057EAB5058B9C440F

Test Case DA	-01-ATA28 DCCIDD Version 2.0	
	3 3850F7EFAFF618193F8CB5301D50CF82AEB77B	4A
	18 EA1042CE56EB02EDCBE29A1B16BC2DE80B8A89	
	19 4CC56ED9735500087DB010FEB6E810AEE376F1	
	20 1398831F181B677EB3F47A643C6092FF02F088	83
	Reference block hashes from source drive 44	
	1 F91A7C4CDBCD296180ABB292B34BF1ABBF409D	
	2 63F9BFE630D91AA5B164E3A057EAB5058B9C44	
	3 3850F7EFAFF618193F8CB5301D50CF82AEB77B	4A
	10	G.F.
	18 EA1042CE56EB02EDCBE29A1B16BC2DE80B8A89	
	19 4CC56ED9735500087DB010FEB6E810AEE376F1 20 1398831F181B677EB3F47A643C6092FF02F088	
	Acquisition hash: E196D36E7B322C0EF83923112AD1	
		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Rehash of Source SHA1: E196D36E7B322C0EF839231	L12AD1800581742
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231	
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 Assertion & Expected Result	Actual Resul
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 Assertion & Expected Result AM-01 Source acquired using interface AI.	
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	Actual Resul as expected as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Resul
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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 Resul as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	Actual Resul as expected as expected as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected as expected as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-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 Resul as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected
Results:	Rehash of Source SHA1: E196D36E7B322C0EF839231 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.	Actual Resul as expected

5.2.2 DA-01-ATA48

Test Case DA-	01-ATA48 DCCIDD Version 2.0
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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:	Frank
Test Date:	Tue Sep 12 15:59:26 2006
Drives:	src(4C) dst (55-IDE) other (none)
Source Setup:	<pre>src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF > src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382 > 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 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 390700737 sectors 200038777344 bytes</pre>
Log Highlights:	Destination setup 390721968 sectors wiped with 55
	Comparision of original to clone Drive Sectors compared: 390721968 Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors
	Hash Window 10002482381 bytes, Algorithms: SHA1 Block hashes from tool for SHA1 1 C74202FA18EC7D9A791902F6CFEC405CEFC8CCC3 2 41CEE9462A863245AC551BDE6F6AACFB8A4E94EE 3 5402D64C3AA6074E73B620FD08809F647E56A83F
	18 E46983DDFE53B4E16410C5A439F1389260C47732 19 02543178AC32D891DC564765C9E1958279743201 20 E04838764C97EA88B08C5D15BD6ED072BDBA6625 Reference block hashes from source drive 4C 1 C74202FA18EC7D9A791902F6CFEC405CEFC8CCC3 2 41CEE9462A863245AC551BDE6F6AACFB8A4E94EE 3 5402D64C3AA6074E73B620FD08809F647E56A83F

Test Case DA	-01-ATA48 DCCIDD Version 2.0	
	18 E46983DDFE53B4E16410C5A439F1389260C4773 19 02543178AC32D891DC564765C9E195827974320 20 E04838764C97EA88B08C5D15BD6ED072BDBA662 Acquisition hash: 8FF620D2BEDCCAFE8412EDAAD56C Rehash of Source SHA1: 8FF620D2BEDCCAFE8412EDA	01 25 8554F872EFBF
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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analygig:	Exported regults achieved	
Analysis:	Expected results achieved	

5.2.3 DA-01-FW

	Ol TV DOCTOR Warning C. C.
Case DA-	01-FW DCCIDD Version 2.0 DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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:	JohnSteed
Test Date:	Tue Sep 12 17:02:54 2006
Drives:	src(63-FU2) dst (61-FU2) other (none)
Source	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >
Setup:	<pre>src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC > 117304992 total sectors (60060155904 bytes) Model (SP0612N) serial # ()</pre>
	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 0F extended 3 S 000000063 113097537 0261/001/01 1023/254/63 0B Fat32 4 S 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	Destination setup 117304992 sectors wiped with 61
	Comparision of original to clone Drive Sectors compared: 117304992 Sectors match: 117304992 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors
	Hash Window 3003007796 bytes, Algorithms: MD5 Block hashes from tool for MD5 1 82F316343BCA4CF7F2DD57C8C9B413D0 2 9A6E7F2FD8877A9CDF0A1C843E009ED7 3 EBF09928B948A4A6B5983237811CC5CA
	18 30B88406868520892140C24C9E4E3835 19 95084B3F8E2AF5123ABEFB1FB0FD62FB 20 AACFC3AF0A4FAAB2B3E5B8A93B4450B0 Reference block hashes from source drive 63-FU2 1 82F316343BCA4CF7F2DD57C8C9B413D0 2 9A6E7F2FD8877A9CDF0A1C843E009ED7

Test Case DA	A-01-FW DCCIDD Version 2.0	
	3 EBF09928B948A4A6B5983237811CC5CA	
	18 30B88406868520892140C24C9E4E3835	
	19 95084B3F8E2AF5123ABEFB1FB0FD62FB	
	20 AACFC3AF0A4FAAB2B3E5B8A93B4450B0	.
	Acquisition hash: EE217BC4FA4F3D1B4021D29B065A	AA9EC
	Rehash of Source SHA1: F7069EDCBEAC863C88DECED	001 F0 = 22 D 3 0 C D = 00 D
	Renash of Source Shal. F7009EDCBEAC803C88DECEL	082159F22DA96BE99B
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-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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.4 DA-01-SATA28

	OI-SAIAZO
Case Case DA-	01-SATA28 DCCIDD Version 2.0 DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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:	Wed Sep 27 15:50:55 2006
Drives:	src(07) dst (02) other (none)
Source Setup:	<pre>src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E > src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B ></pre>
secup.	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
	1 156280257 sectors 80015491584 bytes
Log Highlights:	Destination setup 156301488 sectors wiped with 2
	Comparision of original to clone Drive
	Sectors compared: 156301488
	Sectors match: 156301488
	Sectors differ: 0
	Bytes differ: 0
	Diffs range 0 source read errors, 0 destination read errors
	Hash Window 4001318093 bytes, Algorithms: SHA1
	Block hashes from tool for SHA1
	1 7EDD59528007535433E9B01165D318B1ACF885F8
	2 81E9A60E806357FE271F63EE7A4A60FCD92380C0 3 786BDB956D1B6EF728C53D928B71E4C485649780
	 18 2318005C61D45C568E5E8AA2D332F570A3C0CFD0
	19 1F0208F2FC1CC80A0103174E013F765F8E1A10D0
	20 8EBD6A3C7263D3A07FC637F5582AD16B14F26598
	Reference block hashes from source drive 07 1 7EDD59528007535433E9B01165D318B1ACF885F8
	2 81E9A60E806357FE271F63EE7A4A60FCD92380C0
	3 786BDB956D1B6EF728C53D928B71E4C485649780
	18 2318005C61D45C568E5E8AA2D332F570A3C0CFD0
	TO 23TOUU3CUID43C3U0E3E0MAZD33ZF3/UM3CUCFDU

19 1F0208F2FC1CC80A0103174E013F765F8E1A10D0 20 8EBD6A3C7263D3A07FC637F5582AD16B14F26598 Acquisition hash: 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E Rehash of Source SHA1: 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E 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 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. as expected AO-23 Logged information is correct. as expected	Test Case DA	-01-SATA28 DCCIDD Version 2.0	
Results: Assertion & Expected Result		19 1F0208F2FC1CC80A0103174E013F765F8E1A10I	00
Results: Assertion & Expected Result		20 8EBD6A3C7263D3A07FC637F5582AD16B14F2659	98
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 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. as expected AO-23 Logged information is correct. as expected		Acquisition hash: 655E9BDDB36A3F9C5C4CC8BF32B8	C5B41AF9F52E
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 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. as expected AO-23 Logged information is correct. as expected			
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 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. as expected AO-23 Logged information is correct. as expected		Rehash of Source SHA1: 655E9BDDB36A3F9C5C4CC8B	F32B8C5B41AF9F52E
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. as expected AO-23 Logged information is correct. as expected	Results:		
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 AO-23 Logged information is correct. AS expected AO-22 Tool calculates hashes by block. AS expected AO-23 Logged information is correct.		Assertion & Expected Result	Actual Result
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. as expected AO-23 Logged information is correct. as expected		AM-01 Source acquired using interface AI.	as expected
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 as expected as expected as expected as expected		AM-02 Source is type DS.	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. AO-23 Logged information is correct. as expected as expected as expected as expected as expected		AM-03 Execution environment is XE.	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. as expected AO-23 Logged information is correct. as expected		AM-04 A clone is created.	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. as expected AO-23 Logged information is correct. as expected		AM-06 All visible sectors acquired.	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. as expected AO-23 Logged information is correct. as expected		AM-08 All sectors accurately acquired.	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. as expected AO-23 Logged information is correct. as expected		AO-11 A clone is created during acquisition.	as expected
AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. as expected AO-23 Logged information is correct. as expected		AO-13 Clone created using interface AI.	as expected
AO-22 Tool calculates hashes by block. as expected AO-23 Logged information is correct. as expected		AO-14 An unaligned clone is created.	as expected
AO-23 Logged information is correct. as expected		AO-17 Excess sectors are unchanged.	as expected
		AO-22 Tool calculates hashes by block.	as expected
		AO-23 Logged information is correct.	as expected
A0-24 Source is unchanged by acquisition. as expected		AO-24 Source is unchanged by acquisition.	as expected
	Analysis:	Expected results achieved	

5.2.5 DA-01-SATA48

Test Case DA-	01-SATA48 DCCIDD Version 2.0
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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.
	A0-14 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 Sep 19 17:28:21 2006
Drives: Source	<pre>src(0D) dst (56-IDE) other (none) src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 ></pre>
Setup:	src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411E40C9 > 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 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 488375937 sectors 250048479744 bytes
Log Highlights:	Destination setup 488397168 sectors wiped with 56
	Comparision of original to clone Drive Sectors compared: 488397168 Sectors match: 488397168 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read errors
	Hash Window 25005935002 bytes, Algorithms: SHA1 Block hashes from tool for SHA1 1 AF66EA84447CE08D1DAEA85B004C53A89D08520B 2 2B7F5627BBB16DD3CA16FBB0FFA973598F2060AB 3 41B8E1F58F68C45E820B2E9731C67ADCDFE9507D
	8 4C82D424A12BDE003A885BC342580996E82053DE 9 C495439702CC7F33EDD5D8A4FBDA31FD4505ECB3 10 89E76CCF19E75E3116901F785F02A1D6620BE2F2 Reference block hashes from source drive 0D 1 AF66EA84447CE08D1DAEA85B004C53A89D08520B 2 2B7F5627BBB16DD3CA16FBB0FFA973598F2060AB 3 41B8E1F58F68C45E820B2E9731C67ADCDFE9507D

Test Case DA	-01-SATA48 DCCIDD Version 2.0	
	8 4C82D424A12BDE003A885BC342580996E82053I 9 C495439702CC7F33EDD5D8A4FBDA31FD4505ECI 10 89E76CCF19E75E3116901F785F02A1D6620BE2I Acquisition hash: BAAD80E8781E55F2E3EF528CA73B Rehash of Source SHA1: BAAD80E8781E55F2E3EF528	33 72 D41D228C1377
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-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	as expected
	70 00 7	as expected
	AO-23 Logged information is correct.	as expected

5.2.6 DA-01-SCSI

Test Case DA-	01-SCSI DCCIDD Version 2.0
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	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-11 If requested, a crone 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:	Paladin
Test Date:	Thu Sep 14 12:19:14 2006
Drives:	src(2A) dst (2C) other (none)
Source Setup:	<pre>src hash (SHA256): < AE8E839101661367D92803D5F5D408268635EFD8A05FEA633838CDC3919F5ABA > src hash (SHA1): < F5F9F2903DCAB895F36E270FB22A722E27918125 > src hash (MD5): < 91E0AC905F682ECF6DE4E9835089B519 > 17783249 total sectors (9105023488 bytes)</pre>
	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:	Destination setup 17783249 sectors wiped with 2C
	Comparision of original to clone Drive Sectors compared: 17783249 Sectors match: 17783249 Sectors differ: 0 Bytes differ: 0 Diffs range
	0 source read errors, 0 destination read errors Hash Window 910502349 bytes, Algorithms: SHA256
	Block hashes from tool for SHA256 1 887EDA0AE0820CB1E21407B5ED64D2175E8DFC118C4DCDD665DE9CC1D78CD627 2 E3F7A262F242D3DE8F195D64F6D0674FE138703F5AF4C7CE3F09523858E1D710 3 2CD42B6229C18657E34D4A45A3BD6FF499C36300C66E40512245C27F8A385BF3
	8 7A4A062E603A9702C0BD61763CB89763AF9C8C6FEDC8A496D84A8ADA65FABD1B 9 E77EEDF84A2DFEC71123013C0774D1C0CB7D9A1D02444C4C4455065CC03F3240 10 19C325326D062A3514E4299FB97415A992B0481404D83B313D64A7B4CFF48F48 Reference block hashes from source drive 2A 1 887EDA0AE0820CB1E21407B5ED64D2175E8DFC118C4DCDD665DE9CC1D78CD627 2 E3F7A262F242D3DE8F195D64F6D0674FE138703F5AF4C7CE3F09523858E1D710
	3 2CD42B6229C18657E34D4A45A3BD6FF499C36300C66E40512245C27F8A385BF3

Tebe case D	A-01-SCSI DCCIDD Version 2.0		
	8 7A4A062E603A9702C0BD61763CB89763AF9C8C 9 E77EEDF84A2DFEC71123013C0774D1C0CB7D9A 10 19C325326D062A3514E4299FB97415A992B048 Acquisition hash: AE8E839101661367D92803D5F5D408268635EFD8A05FEA	1D02444C4C4455065CC03i 1404D83B313D64A7B4CFF4 .633838CDC3919F5ABA	3240
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-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected as expected	

5.2.7 DA-01-USB

5.2.7 DA-01-03B	
	01-USB DCCIDD Version 2.0
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary: Assertions:	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-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:	JohnStone
Test Date:	Wed Sep 13 14:27:19 2006
Drives:	src(24-FU2) dst (20-FU2) other (none)
Source	src hash (SHA1): < A78EDB5E90298D0CDF199B4B62119F81208A252A >
Setup:	src hash (MD5): < 90311DDF672B8CBA0869A46F4A455A7E >
	39070080 total sectors (20003880960 bytes)
	19076/063/32 (max cyl/hd values)
	19077/064/32 (number of cyl/hd)
	Model (ATCS04-0) serial # (CSH206D9DSEL)
Log	Destination setup
Highlights:	39070080 sectors wiped with 20
	Comparision of original to clone Drive
	Sectors compared: 39070080
	Sectors match: 39070080
	Sectors differ: 0
	Bytes differ: 0
	Diffs range 0 source read errors, 0 destination read errors
	Hash Window 2000388096 bytes, Algorithms: MD5
	Block hashes from tool for MD5
	1 9FA708CFF959957118332A4138DA11AC
	2 4392FA47D09ED9BE561E30F6E3CCC03D
	3 CA396B233D5C272E8ACFE4F15988FCF7
	8 C1D21372B22183F7F70D5D39F69FA34B
	9 BE95A173D9283D8609659805C509916F
	10 AC09CD51E6C6671D5D31EB9CF96B8C71
	Reference block hashes from source drive 24-FU2
	1 9FA708CFF959957118332A4138DA11AC
	2 4392FA47D09ED9BE561E30F6E3CCC03D
	3 CA396B233D5C272E8ACFE4F15988FCF7
	8 C1D21372B22183F7F70D5D39F69FA34B 9 BE95A173D9283D8609659805C509916F
	10 AC09CD51E6C6671D5D31EB9CF96B8C71
	Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E
	• • • • • • • • • • • • • • • • • • • •
	1

TODO CABO DI	A-01-USB DCCIDD Version 2.0 Rehash of Source SHA1: A78EDB5E90298D0CDF199B4	B62119F81208A252A
	Remain of Bourde Simil 11/01/2019/02/02/02/02/02/02/02/02/02/02/02/02/02/	5021171 012001123211
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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.8 DA-02-CF

Test Case DA-02-CF DCCIDD Version 2.0		
Case Summary:	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:	Charlie	
Test Date: Drives:	Fri Sep 15 14:08:04 2006 src(C1-CF) dst (C2-CF) other (none)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 >	
-	<pre>src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B ></pre>	
	src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 >	
	503808 total sectors (257949696 bytes)	
	Model (CF) serial # () N Start LBA Length	
	1 P 778135908 1141509631 0357/116/40 0357/032/45 Boot 72 other	
	2 P 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other	
	3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other	
	4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other	
	1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes	
	3 1936028192 sectors 991246434304 bytes	
	4 000055499 sectors 28415488 bytes	
Log	Destination setup	
Highlights:	503808 sectors wiped with C2	
	Comparision of original to clone Drive	
	Sectors compared: 503808	
	Sectors match: 503808	
	Sectors differ: 0	
	Bytes differ: 0 Diffs range	
	0 source read errors, 0 destination read errors	
	Hash Window 100000 bytes, Algorithms: MD5 SHA1 SHA256	
	Block hashes from tool for MD5	
	1 490F4B60B33916055444EBAF64DA8E60	
	2 0019D23BEF56A136A1891211D7007F6F	
	3 0019D23BEF56A136A1891211D7007F6F	
	2578 2E464114B17CF569550435739BEEF414	
	2579 4B47A08BE29F0ED2BBFD8026A754B610	
	2580 19B612C14A0BC56AE1104945C5BB7C8C	
	Reference block hashes from source drive C1-CF	

Test Case DA-	02-CF DCCIDD Version 2.0	
	1 490F4B60B33916055444EBAF64DA8E60	
	2 0019D23BEF56A136A1891211D7007F6F	
	3 0019D23BEF56A136A1891211D7007F6F	
	2578 2E464114B17CF569550435739BEEF414	
	2579 4B47A08BE29F0ED2BBFD8026A754B610 2580 19B612C14A0BC56AE1104945C5BB7C8C	
	Block hashes from tool for SHA1	
	1 68312F61C4A4D7DDF257ABDFABD3C8A7BD77DFA	A.8
	2 B98C6A155DC7A778874DFC6023BE2BACC2E495I	DD
	3 B98C6A155DC7A778874DFC6023BE2BACC2E495I	DD
	2578 AF3CF8BE8EDC8CE2348D592229FB673A5418D6I	
	2579 666824903349F3C0FDE8E9C2FF685251D746E48 2580 1B28FC17E127B15EE0001A2C3C69AA4ACFA7988	
	Reference block hashes from source drive C1-CF	
	1 68312F61C4A4D7DDF257ABDFABD3C8A7BD77DF	
	2 B98C6A155DC7A778874DFC6023BE2BACC2E495I	
	3 B98C6A155DC7A778874DFC6023BE2BACC2E495I	DD
	2578 AF3CF8BE8EDC8CE2348D592229FB673A5418D6I	
	2579 666824903349F3C0FDE8E9C2FF685251D746E48	
	Block hashes from tool for SHA256	00
	1 20B7E84CA5E32976BB0280A2086491AA4E3BA05	5E117689D2214DA348D79F74E1
	2 9192C25B734FCBADBE32DADC28089C60DB0E39I	
	3 9192C25B734FCBADBE32DADC28089C60DB0E39F	F90CC20CE2E5733F57261ACC0C
	2578 344B0AC1DB9CE02595788285167F13B4BD8C51B	
	2579 70204081121A50B01F2D5A13369B135ECDE5569	
	2580 CF681B791731C7074C55BAFDAB761D05395F583 Reference block hashes from source drive C1-CF	
	1 20B7E84CA5E32976BB0280A2086491AA4E3BA05	
	2 9192C25B734FCBADBE32DADC28089C60DB0E39I	
	3 9192C25B734FCBADBE32DADC28089C60DB0E39F	F90CC20CE2E5733F57261ACC0C
	2578 344B0AC1DB9CE02595788285167F13B4BD8C51B	
	2579 70204081121A50B01F2D5A13369B135ECDE5569	
	2580 CF681B791731C7074C55BAFDAB761D05395F583 Acquisition hash: 776DF8B4D2589E21DEBCF589EDC1	
	5B8235178DF99FA307430C088F81746606638A0B	.0076
	C7CF0218222DF80D5316511D6814266C7FA507C13F795A	.D3D323BB73C1590D80
	Rehash of Source SHA1: 5B8235178DF99FA307430C0	88F81746606638A0B
Results:	Assembles C Especial Parella	Actual Basult
	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
	AM-03 Execution environment is XE. AM-04 A clone is created.	as expected 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
	A0-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	as expected
	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 DCCIDD Version 2.0	
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
Assertions:	ons: AM-01 The tool uses access interface SRC-AI to access the digital sou	
	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. 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:	McCloud	
Test Date: Drives:	Tue Sep 26 16:01:06 2006 src(43) dst (71) other (none)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	<pre>src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>	
	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	
	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	
	11 S 000000063 010490343 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	
	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 004200507 Sectors 2154551104 Bytes 15 027712062 sectors 14188575744 bytes	
	Partition Hashes 43F12 md5sum 16418303 CBA0C9984F51778E89DEF0C6BED06864	
	43F12 md5sum 16418303 CBAUC9984F517/8E89DEFUC6BEDU6864 43F12 shalsum 16418303 6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0	
	43F12 sha256sum 16418303	
	70AF38479F8384CD7457AA6CE0C255B3C6AFB1FA65F9C2C2DD285F38EE4AD8E2	

Test Case DA-	02-F12 DCCIDD Version 2.0
Log	Destination setup
Highlights:	80418240 sectors wiped with 71
	Comparision of original to clone Partition Sectors compared: 32067
	Sectors match: 32067
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Tue Sep 26 16:15:36 2006
	run finish Tue Sep 26 16:15:49 2006
	elapsed time 0:0:13
	Normal exit
	Hash Window 512 bytes, Algorithms: MD5 SHA1 SHA256
	Block hashes from tool for MD5
	1 4C42CFDF8692C879182616AE8D65C735
	2 F018E29C0F7EB9482D513E2E4C4396BB
	3 F018E29C0F7EB9482D513E2E4C4396BB
	32065 EA81BAAA271A63DD654A61440C030B39
	32066 FF4E17CB6509C5645DCB62480D262839
	32067 0A50B6227BED950D769D860A082922F4
	Reference block hashes from source drive 43
	1 4C42CFDF8692C879182616AE8D65C735
	2 F018E29C0F7EB9482D513E2E4C4396BB
	3 F018E29C0F7EB9482D513E2E4C4396BB
	32065 EA81BAAA271A63DD654A61440C030B39
	32066 FF4E17CB6509C5645DCB62480D262839
	32067 0A50B6227BED950D769D860A082922F4
	Block hashes from tool for SHA1 1 D8EDA931D6B87C1E970BE64F5A251CA80FD308FB
	2 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141
	3 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141
	3 92DDTCF0F0DDD933UJZE0UDTBECEZAF3U0DZD141
	32065 D9038E86EF7C94F658876559B30632CABBAD2066
	32066 72F93F925E4254F73D063AF3028D079727113001
	32067 D5D647F735C9564E62C29FBC32FC599683BA91AE
	Reference block hashes from source drive 43
	1 D8EDA931D6B87C1E970BE64F5A251CA80FD308FB
	2 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141
	3 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141
	32065 D9038E86EF7C94F658876559B30632CABBAD2066
	32066 72F93F925E4254F73D063AF3028D079727113001
	32067 D5D647F735C9564E62C29FBC32FC599683BA91AE
	Block hashes from tool for SHA256
	1 88672C380D0791A7862B54344005CCCD42D30EDEACDE0B8B497723D4ADE1A0FF
	2 B140168E270A194660D4ECB93BBD23892CFA96A2CCD38CFB9959FD0F0DA91DB6
	3 B140168E270A194660D4ECB93BBD23892CFA96A2CCD38CFB9959FD0F0DA91DB6
	32065 CD9BF17D23E981ED32051ACF175ED68E3B468923171354820F6CC82362EB8535 32066 BB42C6EDA0EC74D953F92F5810F7C808D9326ED413C7EEE31F4C8D2E0F048D6F
	32066 BB42C6EDAUEC/4D953F92F581UF/C8U8D9326ED413C/EEE31F4C8D2EUFU48D6F 32067 8DFF0345E6576D8931401E96E2492480E3FE05AEC98FCD93ACFBA060C90821A7
	Reference block hashes from source drive 43
	1 88672C380D0791A7862B54344005CCCD42D30EDEACDE0B8B497723D4ADE1AOFF
	2 B140168E270A194660D4ECB93BBD23892CFA96A2CCD38CFB9959FD0F0DA91DB6
	3 B140168E270A194660D4ECB93BBD23892CFA96A2CCD38CFB9959FD0F0DA91DB6
	32065 CD9BF17D23E981ED32051ACF175ED68E3B468923171354820F6CC82362EB8535
	32066 BB42C6EDA0EC74D953F92F5810F7C808D9326ED413C7EEE31F4C8D2E0F048D6F
	32067 8DFF0345E6576D8931401E96E2492480E3FE05AEC98FCD93ACFBA060C90821A7
	Acquisition hash: CBA0C9984F51778E89DEF0C6BED06864
	6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0
	70AF38479F8384CD7457AA6CE0C255B3C6AFB1FA65F9C2C2DD285F38EE4AD8E2
	Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93F325065E5871
Dam.1	
Results:	Aggention C Eumoghod Dogult
	Assertion & Expected Result Actual Result

Test Case DA-	02-F12 DCCIDD Version 2.0	
	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.	as expected
	AO-23 Logged information is correct.	as expected
	A0-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.10 DA-02-F16

Test Case DA-	02-F16 DCCIDD Version 2.0
Case Summary:	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: Test Host:	brl McCloud
Test Date:	Mon Oct 2 15:05:14 2006
Drives:	src(43) dst (6B) other (none)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	STC hash

Test Case DA-	02-F16 DCCIDD Version 2.0
Log	Destination setup
Highlights:	156301488 sectors wiped with 6B Comparision of original to clone Partition
	Sectors compared: 2104452
	Sectors match: 2104452
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	Source (2104452) has 224910 fewer sectors than destination (2329362) Zero fill: 0
	Src Byte fill (43): 0
	Dst Byte fill (6B): 224910
	Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range: Dst fill range: 2104452-2329361
	Other fill range:
	Other not filled range:
	run start Mon Oct 2 15:38:50 2006
	run finish Mon Oct 2 15:51:53 2006
	elapsed time 0:13:3
	Normal exit
	Hash Window 10000000 bytes, Algorithms: MD5 SHA1 SHA256 Block hashes from tool for MD5
	1 AB7656692E38931509952710C6619E11
	2 950EF9D0E139A5A36ED0B9A65DF3BFF3
	3 C026D4D027A1C09B9DDACDEA77861113
	106 1E742D99C8F24901D64D0BAC8E3AF5BC
	107 D78CACA6D61F0FBE37C36A09E9F978E5
	108 B9116B0955123D4FC7ADAD33E729D798 Reference block hashes from source drive 43
	1 AB7656692E38931509952710C6619E11
	2 950EF9D0E139A5A36ED0B9A65DF3BFF3
	3 C026D4D027A1C09B9DDACDEA77861113
	106 1E742D99C8F24901D64D0BAC8E3AF5BC
	107 D78CACA6D61F0FBE37C36A09E9F978E5 108 B9116B0955123D4FC7ADAD33E729D798
	Block hashes from tool for SHA1
	1 8D09B04E0F9EC9B263379206F42CF3870BDB2BB2
	2 E5530225372B9A128FC44E12081295653B2D146D
	3 37E69A28DB2583C5B5E1C7D485DD875EDB03BA7D
	100 0200121002010700700700700700200000
	106 832B1316FA221E7BDC7B07FCAFE288015B3449CD 107 BE185B4144D9D69164FC2805959E67C7E98E719F
	107 BE105B4144D9D09104FC2003959E07C7E90E719F 108 94A2CC31FAC5A3EB8CFB3014BA3C4D5A26EC611F
	Reference block hashes from source drive 43
	1 8D09B04E0F9EC9B263379206F42CF3870BDB2BB2
	2 E5530225372B9A128FC44E12081295653B2D146D
	3 37E69A28DB2583C5B5E1C7D485DD875EDB03BA7D
	104 022D1214E3221E7DD47D07E43EE20001FD24404D
	106 832B1316FA221E7BDC7B07FCAFE288015B3449CD 107 BE185B4144D9D69164FC2805959E67C7E98E719F
	107 BE183B4144D9D09104FC2803959E07C7E96E719F 108 94A2CC31FAC5A3EB8CFB3014BA3C4D5A26EC611F
	Block hashes from tool for SHA256
	1 C70AF14F4246C12F07BB0836BFD0D5F2D18C17336C276D7F85DFF706690FDC0B
	2 0285F822FAECA3B1CEBB29371327380F8AEA43D3F225CE518D8016A366A1D2D0
	3 C8B116FFF5E614409B7B9B2D499505D75FEA46ADF589CFF5C18668E54DC8FF1C
	 106 4F6DCDC4122C6F35DC94F7889D4758606F76DFBE7A5BE0B256C7EB0CEA30894A
	100 4F6DCDC4122C6F35DC94F7889D4758606F76DF8E7A5BE0B256C7EB0CEA30894A 107 98743E7451183DDD86FED38D93D534EAC6E18F78A02D830913E1315E2C41D109
	108 FBA2F8C44A4F8E1AEFCA51CCDC8B9B74178E18FBC006CFBA20DAD97A153B3529
	Reference block hashes from source drive 43
	1 C70AF14F4246C12F07BB0836BFD0D5F2D18C17336C276D7F85DFF706690FDC0B
	2 0285F822FAECA3B1CEBB29371327380F8AEA43D3F225CE518D8016A366A1D2D0
	3 C8B116FFF5E614409B7B9B2D499505D75FEA46ADF589CFF5C18668E54DC8FF1C

Test Case DA	A-02-F16 DCCIDD Version 2.0	
	106 4F6DCDC4122C6F35DC94F7889D4758606F76DF 107 98743E7451183DDD86FED38D93D534EAC6E18F	
	108 FBA2F8C44A4F8E1AEFCA51CCDC8B9B74178E18	
	Acquisition hash: 37E81FFB31C3CB38AA48B2237500	908E
	443CCEC9A22F726DAF6CE384817151C83B3EBC8B	465553 CD1 60 255 G3 F1
	EFEF3731BCFBB1F7B279FA813FE47CA8DD90E24D8BF89D	PACE /BA6DIC93E5CA51
	Rehash of Source SHA1: 888E2E7F7AD237DC7A73228	1DD93F325065E5871
Results:	Describing & Brown by 3 Brown by	
	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
		as expected
	AO-14 An unaligned clone is created.	as expected
		-
	AO-14 An unaligned clone is created.	as expected
	AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected as expected

5.2.11 DA-02-F32

DA-02 Acquire a digital source of type DS to an unaligned clone. MSSERTIONS: 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-08 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.
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: McCloud
Test Date: Fri Sep 29 17:44:29 2006
Orives: src(43) dst (6B) other (none)
Source src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
setup: src hash (MD5): < BC3903F7EF7A50E77B9BALE65A5AEEF7 > 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
Log Destination setup

Test Case DA-	02-F32 DCCIDD Version 2.0	
Highlights:	156301488 sectors wiped with 6B	
5 5	Comparision of original to clone Partition	
	Sectors compared: 8401932	
	Sectors match: 8401932	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	Source (8401932) has 851445 fewer sectors than	destination (9253377)
	Zero fill: 0	
	Src Byte fill (43): 0 Dst Byte fill (6B): 851445	
	Other fill: 0	
	Other no fill: 0	
	Zero fill range:	
	Src fill range:	
	Dst fill range: 8401932-9253376	
	Other fill range:	
	Other not filled range:	
	run start Mon Oct 2 10:19:09 2006	
	run finish Mon Oct 2 11:10:19 2006	
	elapsed time 0:51:10 Normal exit	
	Hash Window 430178919 bytes, Algorithms: MD5	
	Block hashes from tool for MD5	
	1 6799A7A403AAC0B756BD83B11CE4C642	
	2 33301322C11AA623A164D84519C5F5D9	
	3 F79ADA4DE92DB7157C3D2622A56D95C5	
	8 4ED205EC5A29C36455E76B2BBAA5766F	
	9 61EA91577B8D062128177F7C551BF07C	
	10 B18B8DC672460439219A34500F24C77D Reference block hashes from source drive 43	
	1 6799A7A403AAC0B756BD83B11CE4C642	
	2 33301322C11AA623A164D84519C5F5D9	
	3 F79ADA4DE92DB7157C3D2622A56D95C5	
	8 4ED205EC5A29C36455E76B2BBAA5766F	
	9 61EA91577B8D062128177F7C551BF07C	
	10 B18B8DC672460439219A34500F24C77D	
	Acquisition hash: 2C4D8D450E5AD28329F616D87114	CCFE
	Rehash of Source SHA1: 888E2E7F7AD237DC7A73228	21DD02E22E06EEE071
	Remasm of Source Shar: 000EZE/F/ADZ3/DC/A/3ZZ0	310D93F3Z3003E36/1
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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	
wigther.	mapedied results admieved	

5.2.12 DA-02-F32X

Test Case DA-0	02-F32X DCCIDD Version 2.0
Case	DA-02 Acquire a digital source of type DS to an unaligned clone.
Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-05 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:	McCloud The Con 10 19:25:47 2006
Test Date: Drives:	Tue Sep 19 18:25:47 2006 src(43) dst (71) other (none)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	## STEC hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >
Log Highlights:	Destination setup 80418240 sectors wiped with 71

Test Case DA-	02-F32X DCCIDD Version 2.0	
	Comparision of original to clone Partition	
	Sectors compared: 20980827	
	Sectors match: 20980827	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	run start Wed Sep 20 12:14:26 2006	
	run finish Wed Sep 20 14:16:20 2006	
	elapsed time 2:1:54	
	Normal exit	
	Hash Window 1074218343 bytes, Algorithms: SHA1	
	Block hashes from tool for SHA1	
	1 EB76865D7A006E0D73690F1BB2C35E19785CED4	11
	2 288CB346D8C36A784CC646F1D68F3C5BB3BB6E9	90
	3 8DF7991A42629D7A9B46E88443B7A36EC053331	17
	8 22BCB502EF527C91BA671E6A74F8534086CF8F8	35
	9 36EEB724AFAB46E73CEA91A346E5544CC175BBE	
	10 2BCFDFDA014018E8C916A662924AAF800D41774	1F
	Reference block hashes from source drive 43	
	1 EB76865D7A006E0D73690F1BB2C35E19785CED4	11
	2 288CB346D8C36A784CC646F1D68F3C5BB3BB6E9	
	3 8DF7991A42629D7A9B46E88443B7A36EC053331	17
	8 22BCB502EF527C91BA671E6A74F8534086CF8F8	
	9 36EEB724AFAB46E73CEA91A346E5544CC175BBE	
	10 2BCFDFDA014018E8C916A662924AAF800D41774	
	Acquisition hash: 379C1AC47AF956FC8C80389C2A74	2/A/F8FB4E89
	Rehash of Source SHA1: 888E2E7F7AD237DC7A73228	100030305065051
	Renash of Source Shall 888EZE/F/AD23/DC/A/3228	IDD331372002F28/I
Results:		
Results.	Assertion & Expected Result	Actual Result
	<u> </u>	
	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
	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.	as expected
	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-NT

Test Case DA-	02-NT DCCIDD Version 2.0
Case Summary:	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.
Markan Namai	
Tester Name: Test Host:	brl Paladin
Test Date:	Tue Dec 26 12:50:31 2006
Drives:	src(01) dst (7B) other (none)
Source Setup:	src hash (SHAI): < A48BB5665D6DC57C22DB68B2F723DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63
	O1NT-sha256 14205026303 65FCD168163625E5EB74255B2A981B6F1C9D6259AF8A0851369101986A7ABC09 Excess destination partition sectors hash: CMD: ./machash.csh DA-02-NT Max brl /dev/sdf5 7B -before -winsize

Test Case DA-	02-NT DCCIDD Version 2.0	
	14205026304 -new_log	
	SHA1 0 - 14205026303 = 30933227110A33626AAA105	
	SHA1 14205026304 - 15627999743 = 3053D893D5A51	9D9F761DC3EEBEB87AE503A8F40
T	Dontingtion return	
Log Highlights:	Destination setup 78177792 sectors wiped with 7B	
migningnes.	Comparision of original to clone Partition	
	Sectors compared: 27744192	
	Sectors match: 27744192	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	Source (27744192) has 2779245 fewer sectors th	an destination (30523437)
	Zero fill: 0 Src Byte fill (01): 0	
	Dst Byte fill (7B): 2779244	
	Other fill: 0	
	Other no fill: 1	
	Zero fill range:	
	Src fill range:	
	Dst fill range: 27744192-30523435	
	Other fill range:	
	Other not filled range: 30523436 run start Tue Dec 26 14:37:17 2006	
	run finish Tue Dec 26 14:37:17 2006	
	elapsed time 1:43:3	
	Normal exit	
	Hash Window 1420502631 bytes, Algorithms: SHA2	56
	Block hashes from tool for SHA256	
	1 0075FF881D953AE3630269E4464E6757B3B674	
	2 ADE6AF9D1682050075191EA570329F8E24031Ai 3 DBF2B0DB262450A97DA95402DC58436323BBDAi	
	3 DBF 2B0DB202430A97DA93402DC30430323BBDA9	ABZDC31Z0AUEC04999CD119490
	8 95FDDA5F0269A52D62BB6F0B40771026796585	3EAAEA92C49102F0922CBBA190
	9 CFD40F0A9BCC57DCEFEE421A435669FC8001CC	
	10 5100F8502947F0B1DBB5D871E023B069E86516	CA767710AA10EE94A4EF59C572
	Reference block hashes from source drive 01	
	1 0075FF881D953AE3630269E4464E6757B3B674	
	2 ADE6AF9D1682050075191EA570329F8E24031A	
	3 DBF2B0DB262450A97DA95402DC58436323BBDA	AB2DC3128AUEC64999CD119498
	8 95FDDA5F0269A52D62BB6F0B40771026796585	3EAAEA92C49102F0922CBBA190
	9 CFD40F0A9BCC57DCEFEE421A435669FC8001CC	
	10 5100F8502947F0B1DBB5D871E023B069E865160	CA767710AA10EE94A4EF59C572
	Acquisition hash:	
	65FCD168163625E5EB74255B2A981B6F1C9D6259AF8A08	51369101986A7ABC09
	Business described to the control of	
	Excess destination partition sectors hash:	7P -after -wingize
	CMD: ./machash.csh DA-02-NT Max brl /dev/sdf5 14205026304 -new_log	/D -alter -winsize
	14203020304	77429C3A588C34D09
	SHA1 14205026304 - 15627999743 = 3053D893D5A51	
	Rehash of Source SHA1: A48BB5665D6DC57C22DB68E	2F723DA9AA8DF82B9
7.		
Results:	Aggention C Eurogted Page 14	Agencal Bogule
	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-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.	as expected
	AO-23 Logged information is correct.	as expected

Test Case DA-	02-NT DCCIDD Version 2.0
	AO-24 Source is unchanged by acquisition. as expected
Analysis:	Expected results achieved

5.2.14 DA-02-SWAP

Da-02 Acquire a digital source of type DS to an unaligned clone. Summary: Assertions: AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool executes in execution environment XE. AM-03 The tool executes in execution environment XE. AM-04 AI to concern the digital source. AM-05 AI visible sectors are acquired from the digital source are acquired accurately. AM-05 AI visible sectors are acquired from the digital source are acquired accurately. AM-05 AI requested, a clone is created during an acquisition of a digital source. AM-06 AI requested, a clone is created during an acquisition of a digital source. AM-07-07 AI requested, a clone is created during an acquisition of a digital source. AM-07-07 AI requested, and excess on the clone that the sector occupied on the digital source. AM-07-07 AI requested, any excess sectors on a clone destination device are not modified. AM-02-07 AI requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AM-02-07 AI requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source AM-02-07 AI requested in the log file. AM-02-07 AI reputated AM-02-	Test Case DA-	02-SWAP DCCIDD Version 2.0
AM-01 The tool uses access interface SNC-AI to access the digital source. NM-02 The tool executes in execution environment XI. AM-03 High clone creation is specified, the tool creates a clone of the digital source. AM-06 All veible sectors are acquired from the digital source. AM-06 All veible sectors are acquired from the digital source are acquired accurately. AO-11 High 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 device. 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: bil Test Name: McCloud Test Date: wed Sep 27 11:00:48 2006 Drives: scr hach (SMA1): < 88882XFYFAD237DCTA732281DD93F325065E5871 > src hach (SMA1): < 88882XFYFAD237DCTA732281DD9		DA-02 Acquire a digital source of type DS to an unaligned clone.
Tester Name: bri Test Host: McCloud Test Date: Wed Sep 27 11:00:48 2006 Drives: src (43) dst (71) other (none) Source src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A5DE77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-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	Assertions:	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,
Test Date: Med Sep 27 11:00:48 2006 Drives: Src(43) dst (71) other (none) Source Setup: Src hash (SHAI): < 88882E7F7AD237Dc7A73228IDD93F325065E5871 > Src hash (MD5): < 8C39C3F7EE7A5DE77A9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63	Maskan Nama	
Test Date: Wed Sep 27 11:00:48 2006		
Source Setup: Src hash (MD5): < BC39C3F7EF7A5DE77B9BAlE65A5AEEF7 >		
Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Se	Drives:	
78125000 total sectors (40000000000 bytes) Model (DBB-757HCO) 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 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 0002104515 1023/0000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/0000/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/0000/01 1023/254/63 05 extended 7 S 00000063 004192902 1023/0000/01 1023/254/63 05 extended 9 S 000000063 004902902 1023/001/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/0000/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/0000/01 1023/254/63 0F extended 11 S 000000063 010490382 1023/001/01 1023/254/63 0F extended 11 S 000000063 010490382 1023/0000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/0000/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/0000/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027712125 1023/001/01 1023/254/63 05 extended 15 S 000000063 007712062 1023/001/01 1023/254/63 05 extended 15 S 000000060 007712062 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 000000000 0000/000/		
		78125000 total sectors (40000000000 bytes) Model (OBB-75JHCO) serial # (WD-WMAMC46588) N
Log Destination setup	Log	Destination setup

### Highlights: 80418240 sectors wiped with 71	
Sectors compared: 4208967 Sectors match: 4208967 Sectors differ: 0 Bytes differ: 0 Diffs range: run start Wed Sep 27 14:58:15 2006 run finish Wed Sep 27 15:22:43 2006 elapsed time 0:24:28 Normal exit Hash Window 215499111 bytes, Algorithms: MD5 SHA1 Block hashes from tool for MD5 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB89376A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2E77A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC7594236GDBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 FIE1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9ETDE6920E2OAFCFG679A618803D8A6	
Sectors match: 4208967 Sectors differ: 0 Bytes differ: 0 Diffs range: run start Wed Sep 27 14:58:15 2006 run finish Wed Sep 27 15:22:43 2006 elapsed time 0:24:28 Normal exit Hash Window 215499111 bytes, Algorithms: MD5 SHA1 Block hashes from tool for MD5 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABCTAACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DBSCC6C8EE4E669C5495AFE8 10 6BAB320AC9E7DE6920B2OAFCF6679A618803D8A6	
Sectors differ: 0 Bytes differ: 0 Diffs range: run start Wed Sep 27 14:58:15 2006 run finish Wed Sep 27 15:22:43 2006 elapsed time 0:24:28 Normal exit Hash Window 215499111 bytes, Algorithms: MD5 SHA1 Block hashes from tool for MD5 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A497233A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6AEBAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6AEBAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAB320AC9E7DE6920B2OAFCF6679A618803D8A6	
Bytes differ: 0 Diffs range: run start Wed Sep 27 14:58:15 2006 run finish Wed Sep 27 15:22:43 2006 elapsed time 0:24:28 Normal exit Hash Window 215499111 bytes, Algorithms: MD5 SHA1 Block hashes from tool for MD5 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6ABEAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6BBBBC7AAACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DBSCC6C8EE4E669C5495AFE8 10 6BA320AC9E7DE6920E20AFCF0679A618803D8A6	
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2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBAEC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
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9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
10 63AEDBB8903F6A8EAC75791980D4B575 Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
Reference block hashes from source drive 43 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E 8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
8 1A90D19475EE5484E345876883665BFE 9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
9 7BDE3BC25C21379225D7CBAE820A92B1 10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
10 63AEDBB8903F6A8EAC75791980D4B575 Block hashes from tool for SHA1	
Block hashes from tool for SHA1 1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837 2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A 3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
3 1CD836A992E2576E719E66B53DEE42C93AB40F11 8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8 10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
reference block hasnes from Source drive 45	
1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837	
2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A	
3 1CD836A992E2576E719E66B53DEE42C93AB40F11	
8 A23EE0472976722D27F34730111334992D0B49A0 9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8	
10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
Acquisition hash: 4B602964A30FE20D1B22B046A7375A7C	
F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF	
Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93F325065E5871	
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-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. as expected	
AO-22 loof calculates hashes by block. as expected AO-23 Logged information is correct. as expected	
AO-24 Source is unchanged by acquisition. as expected	
Analysis: Expected results achieved	

5.2.15 DA-02-THUMB

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	02-THUMB DCCIDD Version 2.0
Case Summary:	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:	Charlie
Test Date:	Fri Sep 15 14:41:22 2006
Drives:	src(D2-THUMB) dst (D3-THUMB) other (none)
Source	src hash (SHA256): <
Setup:	ECA93D932C8069B03C36E5AD99A163688C2A6313421D843F46E675567777E8C7 > src hash (SHA1): < 712C9F59F598745977E4E19F235F83CE8F4EC7BA > src hash (MD5): < EA06F74BE51D0730B3F7079D7A3D5AE8 > 253400 total sectors (129740800 bytes)
	Model (TS128MJFLASHA) serial # () N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 778135908 1141509631 0357/116/40 0357/032/45 Boot 72 other 2 P 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other
	3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes
	3 1936028192 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes
Log Highlights:	Destination setup 253400 sectors wiped with 0
	Comparision of original to clone Drive Sectors compared: 253400 Sectors match: 253400
	Sectors differ: 0 Bytes differ: 0 Diffs range
	0 source read errors, 0 destination read errors
	Hash Window 8000 bytes, Algorithms: MD5 SHA1 SHA256 Block hashes from tool for MD5 1 CDE69E2068262BE4B7B9983898E4B60D 2 58101249C76B735BD74CE5302B009317 3 94F8BC2494D2E3D97254D61F99078A3B
	16216 7989E05E83AACD90A091AAC2ACA4F8A4 16217 200C4EAF7206028F6C68EC24CDAB5CAD 16218 B137B7AE1D9D7AD454C762FF9943CB2E
	Reference block hashes from source drive D2-THUMB

Test Case DA-	02-THUMB DCCIDD Version 2.0		
	1 CDE69E2068262BE4B7B9983898E4B60D		
	2 58101249C76B735BD74CE5302B009317		
	3 94F8BC2494D2E3D97254D61F99078A3B		
	16216 7989E05E83AACD90A091AAC2ACA4F8A4		
	16217 200C4EAF7206028F6C68EC24CDAB5CAD 16218 B137B7AE1D9D7AD454C762FF9943CB2E		
	Block hashes from tool for SHA1		
	1 7ECA8513C1D1337AEE679E8DC192375F7E1F637	7 A	
	2 75A289EEC0A33499FBAA6E89081C0EFA604FBDI		
	3 D0F795061DF308677BDDFEAA91360C9BA6B4F06		
	16216 85CDEAB1F5793FCFD1F0F9F1534D885824F5D63	-	
	16217 736F9F375C9F5F1E3207654F7A650D8F7E491807		
	16218 DB62FA536CA59A7270CDF4B45D3097FA6CFEB80		
	Reference block hashes from source drive D2-TH		
	1 7ECA8513C1D1337AEE679E8DC192375F7E1F637A 2 75A289EEC0A33499FBAA6E89081C0EFA604FBDD4		
	2 /5A289EECUA33499FBAA6E89U81CUEFA6U4FBDD4 3 D0F795061DF308677BDDFEAA91360C9BA6B4F066		
	16216 85CDEAB1F5793FCFD1F0F9F1534D885824F5D63	32	
	16217 736F9F375C9F5F1E3207654F7A650D8F7E491807		
	16218 DB62FA536CA59A7270CDF4B45D3097FA6CFEB8C9		
	Block hashes from tool for SHA256		
	1 821D48E67962FD78815531E60BB88F4E1743BC9		
	2 668946BAB9868B28489BB906205EE1026045C8BCD3CA62A1BDF733C65491351B 3 CA27BD348D35BA6ECFEBC2F49227AFD0CF77D54BE0B26BB038B1526A6CA36869		
	3 CA27BD348D35BA6ECFEBC2F49227AFD0CF77D54BE0B26BB038B1526A6CA36869		
	 16216 D3FD0FCBBA79B7DCF5C364ADE447B6481ABBA6908E23340E1433B841D3EE7277		
	16216 D3FD0FCBBA79B7DCF5C364ADE447B0481ABBA6908E23340E1433B841D3EE7277 16217 60C157A734C4C46335DE3455BF25D7567A0FB34E1F47BCF9A290F440545C2475		
	16218 629A2FEAAD92D79EB882F203D57C8B342C13990		
	Reference block hashes from source drive D2-TH		
	1 821D48E67962FD78815531E60BB88F4E1743BC9A081CE11DC4407B74F280ECE2		
	2 668946BAB9868B28489BB906205EE1026045C8BCD3CA62A1BDF733C65491351B		
	3 CA27BD348D35BA6ECFEBC2F49227AFD0CF77D54BE0B26BB038B1526A6CA36869		
	16216 D3FD0FCBBA79B7DCF5C364ADE447B6481ABBA6908E23340E1433B841D3EE7277		
	16217 60C157A734C4C46335DE3455BF25D7567A0FB34E1F47BCF9A290F440545C2475		
	16218 629A2FEAAD92D79EB882F203D57C8B342C139905854F6B46FACED9315265636A		
	Acquisition hash: EA06F74BE51D0730B3F7079D7A3D5AE8		
	712C9F59F598745977E4E19F235F83CE8F4EC7BA		
	ECA93D932C8069B03C36E5AD99A163688C2A6313421D843F46E675567777E8C7		
	Rehash of Source SHA1: 712C9F59F598745977E4E19	F235F83CE8F4EC7BA	
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. AO-14 An unaligned clone is created.	as expected	
	AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected	
	AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	as expected as expected	
	AO-22 loof calculates hashes by block. AO-23 Logged information is correct.	as expected as expected	
	AO-24 Source is unchanged by acquisition.	as expected as expected	
Analysis:	Expected results achieved		
	*		

5.2.16 DA-02-X2

Test Case DA-	02-X2 DCCIDD Version 2.0	
Case Summary:	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: Test Host:	brl AndWife	
Test Date:	Mon Dec 25 09:32:30 2006	
Drives:	src(43) dst (8A) other (none)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	STC hash	

```
Test Case DA-02-X2 DCCIDD Version 2.0
              CMD: ./machash.csh DA-02-X2 Max brl /dev/sdb5 8A -before -winsize
               5371075584 -new log
              SHA1 0 - 5371075583 = 796F5CB694EB176A3DC9BB3E5841015453BB0795
               SHA1 5371075584 - 6201828863 = 1B4C631F8D04C131D033A3B23EB4ECD1E93E45C0
               Destination setup
Log
Highlights:
               39102336 sectors wiped with 8A
               Comparision of original to clone Partition
               Sectors compared:
                                    10490382
               Sectors match:
                                     10490382
              Sectors differ:
              Bytes differ:
              Diffs range:
              Source (10490382) has 1622565 fewer sectors than destination (12112947)
               Zero fill:
                              50984
               Src Byte fill (43): 0
               Dst Byte fill (8A): 1566531
              Other fill:
                              100
              Other no fill: 4950
               Zero fill range: 10502147, 10502195, 10502197, 10502200-10502711,
               10518531, 10518579, 10518581, 10518584-10519095, 10534915,
               10534963, 10534965, 10534968-10535479, 10551299, 10551347,
               10551349, 10551352-10551863, 10567683, 10567731, 10567733,
               10567736-10568247. . . + 48409 more
              Src fill range:
              Dst fill range: 10490382-10502145, 10502712-10518529,
               10519096-10534913, 10535480-10551297, 10551864-10567681,
               10568248-10584065, 10584632-10600449, 10601016-10616833,
              10617400 - 10633217 \,, \ 10633784 - 10649601 \,, \ 10650168 - 10665985 \,,
               10666552-10682369, 10682936-10698753, 10699320-10715137,
               10715704-10731521, 10732088-10747905, 10748472-10764289,
              10764856-10780673, 10781240-10797057, 10797624-10813441. . . + 1254225 more
               Other fill range: 10502199, 10518583, 10534967, 10551351,
              10567735, 10584119, 10600503, 10616887, 10633271, 10649655, 10666039, 10682423, 10698807, 10715191, 10731575, 10747959,
               10764343, 10780727, 10797111, 10813495. . . + 80 more
               Other not filled range: 10502146, 10502148-10502194,
               10502196, 10502198, 10518530, 10518532-10518578, 10518580,
              10518582, 10534914, 10534916-10534962, 10534964, 10534966,
               10551298, 10551300-10551346, 10551348, 10551350, 10567682,
               10567684-10567730, 10567732, 10567734. . . + 4700 more
              run start Sun Dec 24 16:51:52 2006
              run finish Sun Dec 24 17:10:53 2006
               elapsed time 0:19:1
              Normal exit
              Hash Window 537107559 bytes, Algorithms: MD5 SHA256
              Block hashes from tool for MD5
                   1 E6839D26EA376FBD35AE7363937A3EF1
                    2 3C0D17730CCC2EE72A4144FAC965464C
                    3 58EEA095F179FA10F3EE84A1934CDA64
                   8 CE84A89306B5B6CA3401C9614DA13A99
                   9 007105B7B00C27D087F1A9CA1A732439
                  10 FFFA343773E3426255D748054C55E87B
              Reference block hashes from source drive 43
                    1 E6839D26EA376FBD35AE7363937A3EF1
                    2 3C0D17730CCC2EE72A4144FAC965464C
                    3 58EEA095F179FA10F3EE84A1934CDA64
                   8 CE84A89306B5B6CA3401C9614DA13A99
                   9 007105B7B00C27D087F1A9CA1A732439
                  10 FFFA343773E3426255D748054C55E87B
              Block hashes from tool for SHA256
                   1 E456BD80B628E80BD1FDFB9B6F0935AB2DC28238E39E0C5F36F1EBF9ECE1FD44
                    2 05E217D42B6A00CB157B60644950C33630CF0B3160A2D9AA76E77DB8CD5B37B6
                    3 9D0C693F7EA3A351A815F3D484232E9832ABF36016D8CD680D6270457300F168
                    8 F2EE9EB8EC51B749D96582065D763DEF151497588FBCFBD218C15771F1A38293
                   9 57ED0901C294FDDE7D04FC06B2EC123463C3D0B744E40B469147610358AF1974
                      754B6D9E3D71058B3739E4BEF73B39541222218B3C6D60C713C2E60917CFE24F
```

Test Case DA-	02-X2 DCCIDD Version 2.0		
	Reference block hashes from source drive 43 1 E456BD80B628E80BD1FDFB9B6F0935AB2DC2823 2 05E217D42B6A00CB157B60644950C33630CF0B3 3 9D0C693F7EA3A351A815F3D484232E9832ABF36 8 F2EE9EB8EC51B749D96582065D763DEF1514975 9 57ED0901C294FDDE7D04FC06B2EC123463C3D0B 10 754B6D9E3D71058B3739E4BEF73B39541222218 Acquisition hash: C7A84DE9ACBCB05463604CE8823D 61F0030EDB667BA43A26A24A9A25281817537D2261D687 Excess destination partition sectors hash: CMD: ./machash.csh DA-02-X2 Max br1 /dev/sdb5 -new_log SHA1 0 - 5371075583 = 283BCC32DE892C12C37698AF SHA1 5371075584 - 6201828863 = 1B4C631F8D04C13 Rehash of Source SHA1: 888E2E7F7AD237DC7A73228	8160A2D9AA76E77DB8CD5B37B6 8016D8CD680D6270457300F168 888FBCFBD218C15771F1A38293 8744E40B469147610358AF1974 8B3C6D60C713C2E60917CFE24F 0874 F7EDCB32B5E60E39E7 8A -after -winsize 5371075584 7E38703619E57F57 1D033A3B23EB4ECD1E93E45C0	
Results:			
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.	as expected	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.17 DA-04

Test Case DA-	04 DCCIDD Version 2.0
Case Summary:	DA-04 Acquire a physical device to a truncated 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-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:	Thu Dec 14 10:28:39 2006
Drives:	src(41) dst (69) other (none)
Source Setup:	<pre>src hash (SHA256): < FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3FFB13203F1B1D > src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 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 3 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 00 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 D empty entry 1 078107967 sectors 39991279104 bytes</pre>
Highlights:	Message displayed by tool 19925760 blocks (9729 Mb) written. dccidd: writing '/dev/hdb': No space left on device 19925881+0 records in 19925880+0 records out Comparision of original to clone Drive Sectors compared: 19925880 Sectors match: 19925880 Sectors differ: 0 Bytes differ: 0 Diffs range Source (78125000) has 58199120 more sectors than destination (19925880) 0 source read errors, 0 destination read errors Hash Window 7812500 bytes, Algorithms: MD5 SHA256 Block hashes from tool for MD5 1 3A9A5C8B0F2A7946FC3C16DFBCB90DC3

3 91256F5BA4F0C5CEA90DF23D5A0C8204
1304 85F74275523826552FB59CE37565881A 1305 2A10B69DB18DA1C3DFE0B138E318D4E9 Reference block hashes from source drive 41 1 3A9A5C8B0F2A7946FC3C16DFBCE90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A777B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02C05DD0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1304 85F74275523826552FB59CE37565881A 1305 2A10B69DB18DA1C3DFE0B138E318D4E9 Reference block hashes from source drive 41 1 3A9A5C8B0F2A7946FC3C16DFBCE90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A777B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02C05DD0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
Reference block hashes from source drive 41 1 3A9A5C8B0F2A7946FC3C16DFBCB90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
Reference block hashes from source drive 41 1
1 3A9A5C8B0F2A7946FC3C16DFBCB90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F2238BAB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F2238BAB1732DB4EAD46E929AE85D235843BF3E5D2FD4322DBC62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5BBD9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322DBC62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5BBDPD0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEACO1D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A7784A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732D84EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5119 85BA27B05C255FDEFDB30C48E164972A 5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1303 750BDB350F0C979C84832DD77BCB4CC79EBCB410043A973715FE9797FCEDAE69 1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1304 7A9B2DDE861A4811F7D8DD1552057D29ACA78C7E6A0CCAA470C3989635DBC84E 1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1305 45B21E1BDF967BA0EC5EFCDB1B3D4BC3098AE6646F3CDE0826828FE2D3F963B2 Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
Reference block hashes from source drive 41 1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
1 70CB211D5A579784D1A77B4A017350E788387F850A3274D9A5826B797300D227 2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D2FD4322D8C62120A0668F4 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
3 1871A45783E1F1C3B0A596A510387B09909ABE0CC72D3BBCF53049C3F5B8D9D0 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02050D0E144145754B9C3A4 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C
5120 1A0FD5FC32CE152FAF33C0058EA823E9335C6E8A3A0574815534DF17282E3034
Acquisition hash:
Rehash of Source SHA1: 15CAA1A307271160D8372668BF8A03FC45A51CC9
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-03 Execution environment is XE. as expected AM-04 A clone is created. 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 as expected
A0-11 A clone is created during acquisition. as expected
A0-11 A Clone is created during acquisition. as expected A0-13 Clone created using interface AI. as expected
AO-14 An unaligned clone is created. as expected
AO-19 Truncated clone is created. as expected as expected
AO-20 User notified that clone is truncated. as expected
AO-22 Tool calculates hashes by block. as expected
AO-23 Logged information is correct. as expected
AO-24 Source is unchanged by acquisition. as expected

5.2.18 DA-06-ATA28

Case DA-06-ATA28 DCCIDD Version 2.0	3.2.10	DA-00-A I A20
Summary: 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 XR. 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 are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisation for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Dr1		
AM-02 The tool acquires digital source BS. 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. A0-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. A0-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size then all carding an acquisition for each block acquired from the digital source. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Date: Test Date: Test Date: Test Date: Test Date: Test Date: Test Date: Test Sate: Test Sa		DA-06 Acquire a physical device using access interface AI to an image file.
Test Date: Tue Sep 26 14:07:40 2006 Drives: src(41) dst (7B) other (4D-FU2) Source Setup: src hash (SHA256): FBF3AA214896510880FFAR71449A9F788E44F56A6C3BF58A3A3FFB13203F1B1D > src hash (SHA1): <15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): <0A6A8EF78BBC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400B8-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000003 078107967 0000/001/01 1023/254/63 Boot 7N TFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00	Assertions:	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool 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 Date: Tue Sep 26 14:07:40 2006 Drives: src(41) dst (78) other (4D-FU2) Source sc hash (SHAD256): Setup: FBF3AA21489653D880FFAE71449A9F788EE44F56A6C3BF58A3A3FFB13203F1B1D > src hash (SHAD1): < 15CAALA307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD40D8B-75JHCO) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000000 301000000 000000000 0000/000/00 0000/000/	Tester Name:	brl
Drives: Src(41) dst (7B) other (4D-FU2)		Paladin
Source Setup: Src hash (SHA256)	Test Date:	Tue Sep 26 14:07:40 2006
Setup: FBB73A21489653D880FFAE71449A9F78EE4F56AC3BF58A3A3FFB13203F1B1D > src hash (SHA1): < 15CAA1A30727116D837266BBF8A03FC45A51CC9 > rc hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65535/016/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 65535/016/63 (max cyl/hd values) 8		
Highlights: Block hashes from tool for MD5		FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3FFB13203F1B1D > src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 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
5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C03D8515271ECAE2D6486C 5120 1A0FD5FC32CE152FAF33C0058EA823E9335C6E8A3A0574815534DF17282E3034	-	Block hashes from tool for MD5 1

	06-ATA28 DCCIDD Version 2.0	
	2 3F22388AB1732DB4EAD46E929AE85D235843BF3E5D21 3 1871A45783E1F1C3B0A596A510387B09909ABE0CC721 5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A020 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C0 5120 1A0FD5FC32CE152FAF33C0058EA823E9335C6E8A3A00	D3BBCF53049C3F5B8D9D0 D50D0E144145754B9C3A4 D3D8515271ECAE2D6486C
	Acquisition hash: 0A6A8EF78BDC14E2026710D8CCB5607C FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3 Rehash of Source SHA1: 15CAA1A307271160D8372668BF8A	
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-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	as expected as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected as expected

5.2.19 DA-06-ATA48

Test Case DA-	06-ATA48 DCCIDD Version 2.0	
Case Summary:	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS. AM-06 All visible sectors are acquired from the dig AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	creates an image file ital source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	AndWife	
Test Date:	Mon Oct 2 12:21:01 2006	
Drives:	src(4C) dst (56-IDE) other (4D-FU2)	-050
Source Setup:	<pre>src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554 src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382</pre>	
Secup.	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-	
	N Start LBA Length Start C/H/S End C/H/S bo 1 P 000000063 390700737 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 00000000 0000/000/00 0000/000/00 1 390700737 sectors 200038777344 bytes	ot Partition type
Log Highlights:	Hash Window 10002482381 bytes, Algorithms: SHA1 Block hashes from tool for SHA1 1 C74202FA18EC7D9A791902F6CFEC405CEFC8CCC3 2 41CEE9462A863245AC551BDE6F6AACFB8A4E94EE 3 5402D64C3AA6074E73B620FD08809F647E56A83F 18 E46983DDFE53B4E16410C5A439F1389260C47732 19 02543178AC32D891DC564765C9E1958279743201 20 E04838764C97EA88B08C5D15BD6ED072BDBA6625 Reference block hashes from source drive 4C 1 C74202FA18EC7D9A791902F6CFEC405CEFC8CCC3 2 41CEE9462A863245AC551BDE6F6AACFB8A4E94EE 3 5402D64C3AA6074E73B620FD08809F647E56A83F 18 E46983DDFE53B4E16410C5A439F1389260C47732 19 02543178AC32D891DC564765C9E1958279743201 20 E04838764C97EA88B08C5D15BD6ED072BDBA6625 Acquisition hash: 8FF620D2BEDCCAFE8412EDAAD56C8554F	872EFBF
	Rehash of Source SHA1: 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF	
Results:	Aggordian C Euroghad Basult	Agencal Page 14
	Assertion & Expected Result AM-01 Source acquired using interface AI.	Actual Result
	AM-01 Source acquired using interface Al. 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
		<u> </u>

Test Case DA	A-06-ATA48 DCCIDD Version 2.0	
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		_
Analysis:	Expected results achieved	

5.2.20 DA-06-FW

	06-FW DCCIDD Version 2.0	
Case	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Summary:	am 01 mbs to 1 and a second data of the control of	
Assertions:	AM-01 The tool uses access interface SRC-AI to acce	ss the digital source.
	AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE	
	AM-05 If image file creation is specified, the tool	
	on file system type FS.	creates an image life
	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 r	
	file is the same as the data acquired by the tool.	epresented sy one image
	AO-05 If the tool creates a multi-file image of a r	equested size then all
	the individual files shall be no larger than the re	quested size.
	AO-22 If requested, the tool calculates block hashe	s for a specified block
	size during an acquisition for each block acquired	from the digital source.
	AO-23 If the tool logs any log significant informat	ion, the information is
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe e	
	the digital source is unchanged by the acquisition	process.
Tester Name:	brl	
Test Host:	Paladin	
Test Date:	Tue Oct 3 12:29:43 2006	
Drives:	src(63-FU2) dst (2B-FU2) other (4D-FU2)	3.0CDH0.0D
Source	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22D	
Setup:	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC	: >
	117304992 total sectors (60060155904 bytes) Model (SP0612N) serial # ()	
		ot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/63 Bo	
	2 X 004192965 113097600 0261/000/01 1023/254/63	0F extended
	3 S 000000063 113097537 0261/001/01 1023/254/63	0B Fat32
	4 S 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	5 P 00000000 00000000 0000/000/00 0000/000/00	00 empty entry
	6 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 004192902 sectors 2146765824 bytes	
	3 113097537 sectors 57905938944 bytes	
Log	Hash Window 3003007796 bytes, Algorithms: MD5	
Highlights:	Block hashes from tool for MD5	
	1 82F316343BCA4CF7F2DD57C8C9B413D0	
	2 9A6E7F2FD8877A9CDF0A1C843E009ED7	
	3 EBF09928B948A4A6B5983237811CC5CA	
	18 30B88406868520892140C24C9E4E3835	
	19 95084B3F8E2AF5123ABEFB1FB0FD62FB	
	20 AACFC3AF0A4FAAB2B3E5B8A93B4450B0	
	Reference block hashes from source drive 63-FU2	
	1 82F316343BCA4CF7F2DD57C8C9B413D0	
	2 9A6E7F2FD8877A9CDF0A1C843E009ED7	
	3 EBF09928B948A4A6B5983237811CC5CA	
	18 30B88406868520892140C24C9E4E3835	
	19 95084B3F8E2AF5123ABEFB1FB0FD62FB	
	20 AACFC3AF0A4FAAB2B3E5B8A93B4450B0	
	Acquisition hash: EE217BC4FA4F3D1B4021D29B065AA9EC	
	_ , , , , ,	
	Rehash of Source SHA1: F7069EDCBEAC863C88DECED82159	F22DA96BE99B
Dogulta:		
Results:	Aggention C Euroghod Result	Agtual Page 15
	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
i	AM-06 All visible sectors acquired.	as expected

Test Case DA	A-06-FW DCCIDD Version 2.0	
	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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.21 DA-06-SATA28

Test Case DA-	06-SATA28 DCCIDD Version 2.0	
Case Summary:	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS. AM-06 All visible sectors are acquired from the dig AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	creates an image file ital source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	Max	
Test Date:	Wed Oct 11 10:29:52 2006	
Drives:	src(07) dst (1B) other (4D-FU2)	
Source Setup:	<pre>src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B4 src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B 156301488 total sectors (80026361856 bytes) Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044)</pre>	> ot Partition type
Log Highlights:	Hash Window 4001318093 bytes, Algorithms: SHA1 Block hashes from tool for SHA1 1 7EDD59528007535433E9B01165D318B1ACF885F8 2 81E9A60E806357FE271F63EE7A4A60FCD92380C0 3 786BDB956D1B6EF728C53D928B71E4C485649780 18 2318005C61D45C568E5E8AA2D332F570A3C0CFD0 19 1F0208F2FC1CC80A0103174E013F765F8E1A10D0 20 8EBD6A3C7263D3A07FC637F5582AD16B14F26598 Reference block hashes from source drive 07 1 7EDD59528007535433E9B01165D318B1ACF885F8 2 81E9A60E806357FE271F63EE7A4A60FCD92380C0 3 786BDB956D1B6EF728C53D928B71E4C485649780 18 2318005C61D45C568E5E8AA2D332F570A3C0CFD0 19 1F0208F2FC1CC80A0103174E013F765F8E1A10D0 20 8EBD6A3C7263D3A07FC637F5582AD16B14F26598 Acquisition hash: 655E9BDDB36A3F9C5C4CC8BF32B8C5B41 Rehash of Source SHA1: 655E9BDDB36A3F9C5C4CC8BF32B8	
Results:		
VCDUTID.	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
	II 15	as empooded

Test Case DA-	06-SATA28 DCCIDD Version 2.0	
	AO-22 Tool calculates hashes by block.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.22 DA-06-SATA48

J.L.LL	DA-00-0A1A+0	
Test Case DA-	06-SATA48 DCCIDD Version 2.0	
Case	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Summary:		
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS.	-
	AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS.	
	AM-06 All visible sectors are acquired from the dig AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	Frank	
Test Date:	Thu Dec 14 10:56:09 2006	
Drives:	src(16) dst (none) other (4D-FU2)	
Source	src hash (SHA1): < F82982A9C63133988C1D2B4DA7C9C25C	CA2D77A5 >
Setup:	src hash (MD5): < 7BB1D64D47671ED3E69130A2AD08FA02	>
	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)	
		ot Partition type
	1 P 000000063 312560577 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 312560577 sectors 160031015424 bytes	
Log	Hash Window 8002094285 bytes, Algorithms: MD5	
Highlights:	Block hashes from tool for MD5	
	1 302DCB1F955D49E2B1D78A00F2744E39	
	2 49D81C86FC905A3320AAE9EF444DA0C7	
	3 83E4B48E8167FF1436ED7A6B24251641	
	18 86088F61BD5F88822511D6E61B7DE2E7	
	19 607A4D8819A1F155F73F15EC860CF971	
	20 C6BB0A2EBA1748BC94388601C58F9967	
	Reference block hashes from source drive 16	
	1 302DCB1F955D49E2B1D78A00F2744E39	
	2 49D81C86FC905A3320AAE9EF444DA0C7	
	3 83E4B48E8167FF1436ED7A6B24251641	
	18 86088F61BD5F88822511D6E61B7DE2E7	
	19 607A4D8819A1F155F73F15EC860CF971	
	20 C6BB0A2EBA1748BC94388601C58F9967	
	Acquisition hash: 7BB1D64D47671ED3E69130A2AD08FA02	
	Rehash of Source SHA1: F82982A9C63133988C1D2B4DA7C9	C25CC22D7725
	Remain of bource bird. 102702A7C03133700C1D2B4DA7C7	CZSCCAZDIIAS
Results:		
VEDUTED.	Aggertion & Exposted Regult	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
İ	An oo All sectors accurately acquired.	an evhencea

Test Case DA-	06-SATA48 DCCIDD Version 2.0		
	AO-01 Image file is complete and accurate.	as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	as expected	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.23 DA-06-SCSI

J.Z.ZJ		
Test Case DA-	06-SCSI DCCIDD Version 2.0	
Case Summary:	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS.	ss the digital source.
	AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS.	
	AM-06 All visible sectors are acquired from the dig AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re	are acquired accurately. epresented by the image equested size then all
	AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	Paladin	
Test Date:		
	Thu Oct 5 09:30:18 2006	
Drives:	src(2A) dst (E6) other (4D-FU2)	
Source	<pre>src hash (SHA256): < AE8E839101661367D92803D5F5D408268635EFD8A05FEA63383</pre>	0.dDd2.01.0EE2.D2
Setup:	arc hash (SHA1): < F5F9F2903DCAB895F36E270FB22A722E src hash (MD5): < 91E0AC905F682ECF6DE4E9835089B519 17783249 total sectors (9105023488 bytes)	27918125 >
	Model (QM39100TD-SCA) serial # (PCB=20-116711-06	HDAOM39100TD-SCA)
		ot Partition type
	~	11
	1 P 000000063 017751762 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 017751762 sectors 9088902144 bytes	
Log	Hash Window 910502349 bytes, Algorithms: SHA256	
Highlights:	Block hashes from tool for SHA256	
	1 887EDA0AE0820CB1E21407B5ED64D2175E8DFC118C4E 2 E3F7A262F242D3DE8F195D64F6D0674FE138703F5AF4 3 2CD42B6229C18657E34D4A45A3BD6FF499C36300C66E	1C7CE3F09523858E1D710
	8 7A4A062E603A9702C0BD61763CB89763AF9C8C6FEDC8 9 E77EEDF84A2DFEC71123013C0774D1C0CB7D9A1D0244 10 19C325326D062A3514E4299FB97415A992B0481404D8	14C4C4455065CC03F3240
	Reference block hashes from source drive 2A	!
	1 887EDA0AE0820CB1E21407B5ED64D2175E8DFC118C4I	CDD665DE9CC1D78CD627
	2 E3F7A262F242D3DE8F195D64F6D0674FE138703F5AF4	1C7CE3F09523858E1D710
	3 2CD42B6229C18657E34D4A45A3BD6FF499C36300C66E	E40512245C27F8A385BF3
	8 7A4A062E603A9702C0BD61763CB89763AF9C8C6FEDC8 9 E77EEDF84A2DFEC71123013C0774D1C0CB7D9A1D0244 10 19C32326D062A3514E4299FB97415A992B0481404D8	14C4C4455065CC03F3240
	Acquisition hash: AE8E839101661367D92803D5F5D408268635EFD8A05FEA63383	8CDC3919F5ABA
	Rehash of Source SHA1: 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-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	I I III UU IIII VIDIDIC DECECID GEGGIICG.	as empereda

Test Case DA	1-06-SCSI DCCIDD Version 2.0	
	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.	as expected
	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-USB

Test Case DA-	06-USB DCCIDD Version 2.0	
Case Summary:	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS. AM-06 All visible sectors are acquired from the dig AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data r file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a r the individual files shall be no larger than the re AO-22 If requested, the tool calculates block hashe size during an acquisition for each block acquired AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition	creates an image file ital source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	Paladin	
Test Date:	Mon Oct 2 09:55:44 2006	
Drives:	src(24-FU2) dst (33-FU2) other (4D-FU2)	0007.0507
Source Setup:	<pre>src hash (SHA1): < A78EDB5E90298D0CDF199B4B62119F81 src hash (MD5): < 90311DDF672B8CBA0869A46F4A455A7E 39070080 total sectors (20003880960 bytes) 19076/063/32 (max cyl/hd values) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DS</pre>	>
Log Highlights:	Hash Window 2000388096 bytes, Algorithms: MD5 Block hashes from tool for MD5	9F81208A252A
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

Test Case DA-	06-USB DCCIDD Version 2.0
Analysis:	Expected results achieved

5.2.25 DA-07-CF

Test Case DA-	07-CF DCCIDD Version 2.0
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Paladin
Test Date:	Thu Oct 19 14:41:12 2006
Drives:	src(C1-CF) dst (02) other (none)
Source Setup:	<pre>src hash (SHA256): < C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 > src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B > src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes) Model (</pre>
	2 P 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other 3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246438880 bytes 3 1936028192 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes
Log Highlights:	Hash Window 100000 bytes, Algorithms: MD5 SHA1 SHA256 Block hashes from tool for MD5 1 490F4B60B33916055444EBAF64DA8E60 2 0019D23BEF56A136A1891211D7007F6F 3 0019D23BEF56A136A1891211D7007F6F 2578 2E464114B17CF569550435739BEEF414 2579 4B47A08BE29F0ED2BBFD8026A754B610 2580 19B612C14A0BC56AE1104945C5BB7C8C Reference block hashes from source drive C1-CF 1 490F4B60B33916055444EBAF64DA8E60 2 0019D23BEF56A136A1891211D7007F6F 3 0019D23BEF56A136A1891211D7007F6F
	2578 2E464114B17CF569550435739BEEF414 2579 4B47A08BE29F0ED2BBFD8026A754B610 2580 19B612C14A0BC56AE1104945C5BB7C8C Block hashes from tool for SHA1 1 68312F61C4A4D7DDF257ABDFABD3C8A7BD77DFA8 2 B98C6A155DC7A778874DFC6023BE2BACC2E495DD 3 B98C6A155DC7A778874DFC6023BE2BACC2E495DD 2578 AF3CF8BE8EDC8CE2348D592229FB673A5418D6D1 2579 666824903349F3C0FDE8E9C2FF685251D746E485 2580 1B28FC17E127B15EE0001A2C3C69AA4ACFA79888 Reference block hashes from source drive C1-CF

Test Case DA-	07-CF DCCIDD Version 2.0	
	1 68312F61C4A4D7DDF257ABDFABD3C8A7BD77DFA8	
	2 B98C6A155DC7A778874DFC6023BE2BACC2E495DD	
	3 B98C6A155DC7A778874DFC6023BE2BACC2E495DD	
	2578 AF3CF8BE8EDC8CE2348D592229FB673A5418D6D1	
	2579 666824903349F3C0FDE8E9C2FF685251D746E485	
	2580 1B28FC17E127B15EE0001A2C3C69AA4ACFA79888	
	Block hashes from tool for SHA256	
	1 20B7E84CA5E32976BB0280A2086491AA4E3BA05E1176	589D2214DA348D79F74E1
	2 9192C25B734FCBADBE32DADC28089C60DB0E39F90CC2	20CE2E5733F57261ACC0C
	3 9192C25B734FCBADBE32DADC28089C60DB0E39F90CC2	20CE2E5733F57261ACC0C
	2578 344B0AC1DB9CE02595788285167F13B4BD8C51F25BE6	5DD4F9555FCF968281F8D
	2579 70204081121A50B01F2D5A13369B135ECDE5565D8F30)194601EAA80B3295F45C
	2580 CF681B791731C7074C55BAFDAB761D05395F581D39FC	C5EB24634DA126450B0C0
	Reference block hashes from source drive C1-CF	
	1 20B7E84CA5E32976BB0280A2086491AA4E3BA05E1176	589D2214DA348D79F74E1
	2 9192C25B734FCBADBE32DADC28089C60DB0E39F90CC2	20CE2E5733F57261ACC0C
	3 9192C25B734FCBADBE32DADC28089C60DB0E39F90CC2	20CE2E5733F57261ACC0C
	2578 344B0AC1DB9CE02595788285167F13B4BD8C51F25BE6	5DD4F9555FCF968281F8D
	2579 70204081121A50B01F2D5A13369B135ECDE5565D8F30)194601EAA80B3295F45C
	2580 CF681B791731C7074C55BAFDAB761D05395F581D39FC	C5EB24634DA126450B0C0
	Acquisition hash: 776DF8B4D2589E21DEBCF589EDC16D78	
	5B8235178DF99FA307430C088F81746606638A0B	
	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D32	3BB73C1590D80
	Rehash of Source SHA1: 5B8235178DF99FA307430C088F81	746606638A0B
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.	as expected
	AO-23 Logged information is correct.	as expected
	A0-24 Source is unchanged by acquisition.	as expected
	AO-21 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.26 DA-07-F12

Test Case DA-	07-F12 DCCIDD Version 2.0		
Case	DA-07 Acquire a digital source of type DS to an image file.		
Summary:			
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	Frank		
Test Date:	Wed Oct 18 14:57:02 2006		
Drives:	src(43) dst (4D-FU2) other (none)		
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>		
Scoup	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		
	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		
	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		
	18 P 000000000 00000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	Partition Hashes		
	43F12 md5sum 16418303 CBA0C9984F51778E89DEF0C6BED06864		
	43F12 sha1sum 16418303 6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0		
	43F12 sha256sum 16418303		
	70AF38479F8384CD7457AA6CE0C255B3C6AFB1FA65F9C2C2DD285F38EE4AD8E2		
Log	Hash Window 512 bytes, Algorithms: MD5 SHA1 SHA256		
Highlights:	Block hashes from tool for MD5		
	1 4C42CFDF8692C879182616AE8D65C735		
	2 F018E29C0F7EB9482D513E2E4C4396BB		

Test Case DA-	07-F12 DCCIDD Version 2.0		
1020 0020 211	3 F018E29C0F7EB9482D513E2E4C4396BB		
	32065 EA81BAAA271A63DD654A61440C030B39		
	32066 FF4E17CB6509C5645DCB62480D262839		
	32067 0A50B6227BED950D769D860A082922F4 Reference block hashes from source drive 43		
	1 4C42CFDF8692C879182616AE8D65C735		
	2 F018E29C0F7EB9482D513E2E4C4396BB		
	3 F018E29C0F7EB9482D513E2E4C4396BB		
	32065 EA81BAAA271A63DD654A61440C030B39		
	32066 FF4E17CB6509C5645DCB62480D262839		
	32067 0A50B6227BED950D769D860A082922F4 Block hashes from tool for SHA1		
	1 D8EDA931D6B87C1E970BE64F5A251CA80FD308FB		
	2 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141		
	3 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141		
	32065 D9038E86EF7C94F658876559B30632CABBAD2066		
	32066 72F93F925E4254F73D063AF3028D079727113001		
	32067 D5D647F735C9564E62C29FBC32FC599683BA91AE Reference block hashes from source drive 43		
	1 D8EDA931D6B87C1E970BE64F5A251CA80FD308FB		
	2 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141		
	3 92BB4CF0F8BDB935052E80D4BECE2AF368D2D141		
	32065 D9038E86EF7C94F658876559B30632CABBAD2066		
	32066 72F93F925E4254F73D063AF3028D079727113001		
	32067 D5D647F735C9564E62C29FBC32FC599683BA91AE Block hashes from tool for SHA256		
	1 88672C380D0791A7862B54344005CCCD42D30EDEACDE	:0888497723D4ADE1A0FF	F
	2 B140168E270A194660D4ECB93BBD23892CFA96A2CCD3		
	3 B140168E270A194660D4ECB93BBD23892CFA96A2CCD3	88CFB9959FD0F0DA91DB6	6
	32065 CD9BF17D23E981ED32051ACF175ED68E3B4689231713		
	32066 BB42C6EDA0EC74D953F92F5810F7C808D9326ED413C7 32067 8DFF0345E6576D8931401E96E2492480E3FE05AEC98F		
	Reference block hashes from source drive 43	CD93ACFBAU60C9U6ZIA	/
	1 88672C380D0791A7862B54344005CCCD42D30EDEACDE	E0B8B497723D4ADE1A0FF	F
	2 B140168E270A194660D4ECB93BBD23892CFA96A2CCD3	88CFB9959FD0F0DA91DB6	6
	3 B140168E270A194660D4ECB93BBD23892CFA96A2CCD3	88CFB9959FD0F0DA91DB6	6
	32065 CD9BF17D23E981ED32051ACF175ED68E3B4689231713		
	32066 BB42C6EDA0EC74D953F92F5810F7C808D9326ED413C7 32067 8DFF0345E6576D8931401E96E2492480E3FE05AEC98F		
	Acquisition hash: CBA0C9984F51778E89DEF0C6BED06864	CD93ACFBA000C900ZIA	,
	6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0		
	70AF38479F8384CD7457AA6CE0C255B3C6AFB1FA65F9C2C2DD2	85F38EE4AD8E2	
	Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93	F325065E5871	
Results:			
TCDUTCD.			
1	Assertion & Expected Result	Actual Result	
	Assertion & Expected Result AM-01 Source acquired using interface AI.	Actual Result as expected	
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected as expected	
	AM-01 Source acquired using interface AI.	as expected	
	AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	as expected as expected	
	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.	as expected as expected as expected as expected as expected	
	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.	as expected as expected as expected as expected as expected as expected	
	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.	as expected	
	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.	as expected	
	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.	as expected	
	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.	as expected	
	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.	as expected	
	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.	as expected	
Analysis:	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.	as expected	

5.2.27 DA-07-F16

Summary: Assertions: AM-02 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquired digital source DS. AM-03 The tool acquired digital source DS. 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 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. Test Date: Thu out 19 10:53:33 2006 Drives: src(43) dat (4D-FU2) other (none) Source Schup: Src(43) dat (4D-FU2) other (none) Source Schup: Src hash (SMA): < 888EZE77*AD23*DC7A732281DD93F325065E5871 > src hash (SMA): < 888EZE7*PAD23*DC7A732281DD93F325065E5871 > src hash (SMA): < 888EZZE7*PAD23*DC7A732281DD93F325065E5871 > sr	Test Case DA-	07-F16 DCCIDD Version 2.0
Ambertions: AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquired digital source Ds. AM-03 The tool executes in execution environment XR. AM-05 This maps file creation is specified, the tool creates an image file on file system type FS. AM-06 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the tool creates and image file to the data represented by the image file is the same as the data acquired by the tool. AO-05 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-02 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-03 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-04 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: by1 Test Name: Test Date: Thu Oct 19 10:53:33 2006 Drives: Surc(43) dst (4D-FU2) other (none) Surce src hash (SNA1): < 888EZETFAD237DC7A73228DD93F325065E5871 > src (43) dst (4D-FU2) other (none) Model (OBB-TSJRCO) serial f (WD-WMAMC46588) N Start LBA Length Start CH/S Emd CH/S boot Partition type 1 p 000000063 200980827 0000/00/10/10/122/254/63 OF fat32X 2 x 020980890 05/143205 1002/00/10/10/122/254/63 OF pat32X 2 x 020980890 05/143205 1002/00/10/10/122/254/63 OF sextended 5 x 000000063 020980827 0000/00/10/10/122/254/63 OF sextended 5 x 000000063 020980827 0000/00/10/10/10/122/254/63 OF sextended 5 x 000000063 020980827 0202/00/10/10/10/122/254/63 OF sextended 1 x 014731669 10049045 1002/00/10/10/122/254/63 OF sextended 1 x 014731669 10049045 1002/00/10/10/122/254/63 OF sextended 1	Case	
AM-02 The tool acquires digital source D5. AM-03 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 are acquired accurately. AM-08 All visible 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-33 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: **Description** Test Date: Thu Oct 19 10:53:33 2006 **Drives: src (43) dat (40-502) other (none) **Source** **Scruption**	Summary:	
AM-05 If image file creation is specified, the tool creates an image file on file system type FS.	Assertions:	
on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All visible sectors are acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size 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 loss any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Name: Prims: Test Name: Prims: Test Name: Test Name: Prims of the Stant (AD-FU2) other (none) Source schael (MBS): A BC39C3F7EETASCB77B8A1ESCB5CB5E871 > src hash (MBS): A BC39C3F7EETASCB77B8A1ESCB5CB5E87 > src hash (MBS): A BC39C3F7EETASCB7TB8BA1ESCB5AB5E87 > src hash (MBS): A BC39C3F7EETASCB7E8TAB5CB5CB5E87 > src hash (MB		
AM-06 All visible sectors are acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an 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.		_ · · · · · · · · · · · · · · · · · · ·
AM-08 All sectors acquired from the digital source are acquired accurately, A0-01 If the tool creates an image file is the same as the data acquired by the tool. A0-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. A0-02 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-02 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-04 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: brl Test Boat: Prank Test Date: Thu Oct 19 10:53:33 2006 Drives: src(43) dat (4D-FU2) other (none) Source src hash (SMA1): < 888R2FF7AD33TDC7A732281DD93F325065E5871 > src hash (SMSA1): < 888R2FFF7AD33TDC7A732281DD93F325065E5871 > src hash (SMSA1): < 888R2FFFFAD33TDC7A732281DD93F325065E5871 > src hash (SMSA1): < 888R2FFFFAD33TDC7A732281DD93F5FETAG5BFFFTAD37DC7A732281DD93F5FETAG5BFFFTAD37DC7A732281DD93F5FFFTAD37DC7A732281DD93F5FFFTAD37DC7A732281DD93FFFFTAD37DC7A7322A1DC7A732281DD93FFFTAD37DC7A7322A1DC7A7322A1DC7A73		
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.		
AO-05 If the tool creates a multi-file image of a requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Name: br1 Test Host: Frank Test Date: Frank Test Date: Frank Test Bate: Thu Oct 19 10:53:33 2006 Drives: SEC(43) dst (4D-FU2) other (none) Source Src hash (SHA1): < 888E2Z*F7AD237DCA7332281DD93F325065E5871 > Src hash (MD5): < BC39C3FTEETA50E7TB9BA1E56A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (DBB-7SJRCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S Bad C/H/S boot Partition type 1 p 00000063 020980827 0000/001/01 1023/254/63		
the individual files shall be no larger than the requested size. AD-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AD-31 If the tool logs any log significant information, the information is accurately recorded in the log file. AD-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Pare: Thu Oct 19 10:53:33 2006 Drives: Src(43) dst (4D-FU2) other (none) Source Sctup: Src(43) dst (4D-FU2) other (none) Source Sctup: Src hash (SMA1): 888EZETFAD237DCTA73228IDD93F325065E5871 > STC hash (SMA1): 888EZETF		<u> </u>
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. Test Name: brl Test Host: Frank Test Date: Thu Oct 19 10:53:33 2006 Drives: src (43) dst (40-FU2) other (none) Source src hash (SHA1): < 888E2FFTAD23TDCTAT32281DD93F325065E5871 > src hash (SHA1): < 880E2FFTAD23TDCTAT32281DD93F325065E5871 > src hash (SHA1): < 880E2FFTAD23TDCTAT32281DD93F325065E5871 > src hash (SHA1): < 80E3CATTETAD23TDCTAT32281DD93F325065E5871 > src hash (SHA1): < 80E3CATTETAD23TDCTAT32281DD93F325065E5871 > src hash (MD5): < 8C39CATTETAD23TDCTAT32281DD93F325065E5871 > src hash (MD5): < 8C39CATTETAD23TDCTAT32281DD93CATTETAD23TDCTAT32281DD93CATTETAD23TDCTAT32281DD93CATTETA		
AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Bost: Frank Test Bost: Frank Test Date: Frank Test Date: Source Src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > Src hash (SHA1):		
accurately recorded in the log file. AO-24 ff the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Frank Test Bate: Thu Oct 19 10:53:33 2006 Drives: Src(43) det (4D-FUZ) other (none) Source Src hash (SHA1): < 8882E2FT7AD237DC7A732281DD93F325065E5871 > Src hash (SHA1): < 8882E2FT7AD237DC7A732281DD93F325065E5871 > Src hash (MD5): < 8203C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125010 total sectors (4000000000 bytes) Model (0BB-75JHCO)		
A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Host:		
Test Name: br1 Test HOSt: Frank Test Date: Thu Oct 19 10:53:33 2006 Drives: src(43) dst (4D-FU2) other (none) Source src hash (SHA1): < 88822F7FAD237DC7A732281DD93F325065E5871 > Setup: src hash (MD5): < 8C39C3F7EE7ASDE77B9BA1E65A5AEEF7 > 78125000 total sectors (4000000000 bytes) Model (DBB-75JHC0) serial # (WD-WAMMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63		
Test Date: Thu Oct 19 10:53:33 2006 Drives: SrC(43) dst (4D-FU2) other (none) Source Schash (SHA1): < 888E2EFF7AD237DC7A732281DD93F325065E5871 > Src hash (SHA1): < 888E2EFF7AD237DC7A732281DD93F325065E5871 > Src hash (MD5): < BC393C377EBFA5DC77B9BA1E65A5AEEFF > 78125000 total sectors (40000000000 bytes) Model (DBB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63		<u> </u>
Test Date: Thu Oct 19 10:53:33 2006 Drives: SrC(43) dst (4D-FU2) other (none) Source Schash (SHA1): < 888E2EFF7AD237DC7A732281DD93F325065E5871 > Src hash (SHA1): < 888E2EFF7AD237DC7A732281DD93F325065E5871 > Src hash (MD5): < BC393C377EBFA5DC77B9BA1E65A5AEEFF > 78125000 total sectors (40000000000 bytes) Model (DBB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63	Tester Name:	brl
Drives: src(43) dst (4D-FU2) other (none) Source src hash (SHAI): < 888E287F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < 8C39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 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	Test Host:	
Source Srt hash (SHA1): < 88BEZFFTAD237DCTA73228IDD93F325065E5871 > Src hash (MD5): < BC39C3FTEE7AD237DCTA73228IDD93F325065E5871 > Src hash (MD5): < BC39C3FTEE7ASDE77B9BAIE65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End (7H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104515 1023/000/01 1023/254/63 OF extended 5 S 000000063 002104525 1023/000/01 1023/254/63 OF extended 6 X 002136645 004192965 1023/000/01 1023/254/63 OF extended 7 S 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 00000063 004192905 1023/000/01 1023/254/63 OF extended 9 S 000000063 004019295 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490445 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490445 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 11 S 000000063 004209967 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209967 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209967 1023/001/01 1023/254/63 OF extended 15 S 000000003 004209967 1023/001/01 1023/254/63 OF extended 15 S 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 17 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 19 00000000 000000000 00000000 0000/000/0	Test Date:	Thu Oct 19 10:53:33 2006
Setup: src hash (MD5): < BC39C3FTRE7A5DE77B9BA1E65A5AEEF7 > 78125000 total sectors (4000000000 bytes) Model (OBB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020990827 0000/001/01 1023/254/63	Drives:	
78125000 total sectors (4000000000 bytes) Model (0BB-75JHCO)	Source	
Model (0BB-75JHC0) Serial # (WD-WAMC46588)	Setup:	· · · ·
N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 20980827 0000/001/01 1023/254/63 OF extended 2 X 020980890 057143205 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 00210455 1023/000/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/001/01 1023/254/63 OF extended 6 X 002136645 004192965 1023/000/01 1023/254/63 OF extended 7 S 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 00000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 00000063 008401995 1023/000/01 1023/254/63 OF extended 10 X 014731605 010490445 1023/000/01 1023/254/63 OF extended 11 S 00000063 010490382 1023/001/01 1023/254/63 OF extended 12 X 025222050 004209930 1023/001/01 1023/254/63 OF extended 13 S 000000063 027712052 1023/001/01 1023/254/63 OF extended 15 S 000000063 027712052 1023/001/01 1023/254/63 OF extended 15 S 000000063 027712052 1023/001/01 1023/254/63 OF extended 16 S 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 16 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 17 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 19 P 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 10 102980827 sectors 10742183424 bytes 10 100490382 sectors 1146765824 bytes 10 100490382 sectors 2146765824 bytes 11 010490382 sectors 2146765824 bytes 12 008401932 sectors 2146765824 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 1177479423 47815676CE384817151C83B3EBC8B 43F16 shalsum 1077479423 47826F678A6D90624D8BF89D4CE7BA6D1C93E5CA51 Hash Window 10000000 bytes, Algorithms: MD5 SHA1 SHA256 Block hashes from tool for MD5		
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EFEF3731BCFBB1F7B279FA813FE47CA8DD90E24D8BF89D4CE7BA6D1C93E5CA51 Log Hash Window 10000000 bytes, Algorithms: MD5 SHA1 SHA256 Highlights: Block hashes from tool for MD5		
Log Hash Window 10000000 bytes, Algorithms: MD5 SHA1 SHA256 Highlights: Block hashes from tool for MD5		
Highlights: Block hashes from tool for MD5	Ioa	
	Highlights:	
	3 3	
2 950EF9D0E139A5A36ED0B9A65DF3BFF3		
3 C026D4D027A1C09B9DDACDEA77861113		3 C026D4D027A1C09B9DDACDEA77861113

Test Case DA-	07-F16 DCCIDD Version 2.0	
	 106 1E742D99C8F24901D64D0BAC8E3AF5BC	
	100 1E742D99C6F24901D04D0BAC6E3AF3BC 107 D78CACA6D61F0FBE37C36A09E9F978E5	
	108 B9116B0955123D4FC7ADAD33E729D798	
	Reference block hashes from source drive 43	
	1 AB7656692E38931509952710C6619E11	
	2 950EF9D0E139A5A36ED0B9A65DF3BFF3	
	3 C026D4D027A1C09B9DDACDEA77861113	
	106 1E742D99C8F24901D64D0BAC8E3AF5BC	
	107 D78CACA6D61F0FBE37C36A09E9F978E5	
	108 B9116B0955123D4FC7ADAD33E729D798	
	Block hashes from tool for SHA1	
	1 8D09B04E0F9EC9B263379206F42CF3870BDB2BB2 2 E5530225372B9A128FC44E12081295653B2D146D	
	3 37E69A28DB2583C5B5E1C7D485DD875EDB03BA7D	
	106 832B1316FA221E7BDC7B07FCAFE288015B3449CD	
	107 BE185B4144D9D69164FC2805959E67C7E98E719F	
	108 94A2CC31FAC5A3EB8CFB3014BA3C4D5A26EC611F	
	Reference block hashes from source drive 43 1 8D09B04E0F9EC9B263379206F42CF3870BDB2BB2	
	2 E5530225372B9A128FC44E12081295653B2D146D	
	3 37E69A28DB2583C5B5E1C7D485DD875EDB03BA7D	
	• • • • • • • • • • • • • • • • • • • •	
	106 832B1316FA221E7BDC7B07FCAFE288015B3449CD	
	107 BE185B4144D9D69164FC2805959E67C7E98E719F 108 94A2CC31FAC5A3EB8CFB3014BA3C4D5A26EC611F	
	Block hashes from tool for SHA256	
	1 C70AF14F4246C12F07BB0836BFD0D5F2D18C17336C27	76D7F85DFF706690FDC0B
	2 0285F822FAECA3B1CEBB29371327380F8AEA43D3F225	5CE518D8016A366A1D2D0
	3 C8B116FFF5E614409B7B9B2D499505D75FEA46ADF589	9CFF5C18668E54DC8FF1C
		PEOP256C7EPOCEX30894X
	100 4F0DcDc4122C0F33Dc94F7889D4738000F70DFBE7A3F 107 98743E7451183DDD86FED38D93D534EAC6E18F78A02I	
	108 FBA2F8C44A4F8E1AEFCA51CCDC8B9B74178E18FBC006	
	Reference block hashes from source drive 43	
	1 C70AF14F4246C12F07BB0836BFD0D5F2D18C17336C27	
	2 0285F822FAECA3B1CEBB29371327380F8AEA43D3F225 3 C8B116FFF5E614409B7B9B2D499505D75FEA46ADF589	
	3 COBITOTET SECTION OF BARCADESOS	9CFF 3C18008E34DC8FF1C
	106 4F6DCDC4122C6F35DC94F7889D4758606F76DFBE7A5F	BE0B256C7EB0CEA30894A
	107 98743E7451183DDD86FED38D93D534EAC6E18F78A02I	D830913E1315E2C41D109
	108 FBA2F8C44A4F8E1AEFCA51CCDC8B9B74178E18FBC006	5CFBA20DAD97A153B3529
	Acquisition hash: 37E81FFB31C3CB38AA48B2237500908E 443CCEC9A22F726DAF6CE384817151C83B3EBC8B	
	EFEF3731BCFBB1F7B279FA813FE47CA8DD90E24D8BF89D4CE7B	A6D1C93E5CA51
	Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93	F325065E5871
Dogulta:		
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected as expected
	AO-22 Tool calculates hashes by block.	as expected as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
2 2	The second second to the second secon	
Analysis:	Expected results achieved	

5.2.28 DA-07-F32

Test Case DA-	07-F32 DCCIDD Version 2.0
Case	DA-07 Acquire a digital source of type DS to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all
	the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Frank
Test Date: Drives:	Thu Oct 19 14:20:02 2006 src(43) dst (4D-FU2) other (none)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	STC hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >
Log Highlights:	Hash Window 430178919 bytes, Algorithms: MD5 Block hashes from tool for MD5 1 6799A7A403AAC0B756BD83B11CE4C642 2 33301322C11AA623A164D84519C5F5D9 3 F79ADA4DE92DB7157C3D2622A56D95C5

Test Case DA-	07-F32 DCCIDD Version 2.0	
	8 4ED205EC5A29C36455E76B2BBAA5766F 9 61EA91577B8D062128177F7C551BF07C 10 B18B8DC672460439219A34500F24C77D Reference block hashes from source drive 43 1 6799A7A403AAC0B756BDB3B11CE4C642 2 33301322C11AA623A164D84519C5F5D9 3 F79ADA4DE92DB7157C3D2622A56D95C5 8 4ED205EC5A29C36455E76B2BBAA5766F 9 61EA91577B8D062128177F7C551BF07C 10 B18B8DC672460439219A34500F24C77D Acquisition hash: 2C4D8D450E5AD28329F616D87114CCFE Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93	F325065E5871
Results:	Assertion & Expected Result	T
		Agtual Dagult
	-	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected as expected
	AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected as expected
	AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	as expected as expected as expected as expected
	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.	as expected as expected as expected as expected as expected as expected
	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.	as expected
	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.	as expected
	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.	as expected
	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.	as expected
	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.	as expected
	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.	as expected
	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.	as expected

5.2.29 DA-07-F32X

Test Case DA-	07-F32X DCCIDD Version 2.0
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Togton Nome:	hul
Tester Name: Test Host:	brl Frank
Test Date:	Thu Oct 19 16:52:36 2006
Drives:	src(43) dst (4D-FU2) other (none)
Source Setup:	src hash (SHAI): < 888E2FF77AD237DC7A73228IDD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 0021044515 1023/000/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/001/01 1023/254/63 OF extended 7 S 000000063 004192965 1023/000/01 1023/254/63 OF extended 8 X 006329610 008401995 1023/000/01 1023/254/63 OF extended 9 S 000000063 008401995 1023/000/01 1023/254/63 OF extended 9 S 000000063 008401995 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 11 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 12 X 025222050 004209030 1023/000/01 1023/254/63 OF extended 13 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 13 S 000000063 0027712125 1023/001/01 1023/254/63 OF extended 15 S 000000063 027712125 1023/001/01 1023/254/63 OF extended 15 S 000000063 027712125 1023/001/01 1023/254/63 OF extended 15 S 000000063 027712125 1023/001/01 1023/254/63 OF extended 15 S 000000006 027712125 1023/001/01 1023/254/63 OF extended 15 S 000000006 027712125 1023/001/01 1023/254/63 OF extended 15 S 000000000 000000000 0000/000/00 0000/000/00 OF empty entry 17 P 00000000 000000000 0000/000/00 0000/000/00 OF empty entry 18 P 00000000 000000000 0000/000/00 0000/000/00 OF empty entry 10 20980827 sectors 16418304 bytes 10 10490382 sectors 16418304 bytes 10 10490382 sectors 164785824 bytes 10 004208967 sectors 2154991104 bytes 15 027712062 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes Partition Hashes 43F32x shalsum 10742183423 379C1AC47AF956FC8C80389C2A7427A7F8FB4E89
Log Highlights:	Hash Window 1074218343 bytes, Algorithms: SHA1 Block hashes from tool for SHA1 1 EB76865D7A006E0D73690F1BB2C35E19785CED41 2 288CB346D8C36A784CC646F1D68F3C5BB3BB6E90 3 8DF7991A42629D7A9B46E88443B7A36EC0533317 8 22BCB502EF527C91BA671E6A74F8534086CF8F85

Test case DA-	07-F32X DCCIDD Version 2.0 9 36EEB724AFAB46E73CEA91A346E5544CC175BBE2	
	9 36EEB/24AFAB46E/3CEA91A346E5544CC1/5BBE2 10 2BCFDFDA014018E8C916A662924AAF800D41774F	
	Reference block hashes from source drive 43	
	1 EB76865D7A006E0D73690F1BB2C35E19785CED41	
	2 288CB346D8C36A784CC646F1D68F3C5BB3BB6E90	
	3 8DF7991A42629D7A9B46E88443B7A36EC0533317	
	3 ODE / 991A42029D / A9B40E00443B / A30E0033331 /	
	8 22BCB502EF527C91BA671E6A74F8534086CF8F85	
	9 36EEB724AFAB46E73CEA91A346E5544CC175BBE2	
	10 2BCFDFDA014018E8C916A662924AAF800D41774F	
	Acquisition hash: 379C1AC47AF956FC8C80389C2A7427A7F	F8FB4E89
	D 1 1 6 G GW11 00000000000000000000000000000000) TO O C C T C O T 1
	Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93	DF 323003E30/I
Results:	Renash of Source SHA1: 888EZE/F/ADZ3/DC/A/32281DD93	SF 323003E3071
Results:	Renash of Source SHAI: 888EZE/F/ADZ3/DC/A/3228IDD93 Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI.	
Results:	Assertion & Expected Result	Actual Result
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI.	Actual Result as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	Actual Result as expected as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	Actual Result as expected as expected as expected as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired.	Actual Result as expected as expected as expected as expected as expected as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	Actual Result as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	Actual Result as expected
Results:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. 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.	Actual Result as expected

5.2.30 DA-07-NT

Test Case DA-	07-NT DCCIDD Version 2.0
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Togtow Nome:	had
Tester Name: Test Host:	brl Frank
Test Date:	Fri Oct 20 09:06:07 2006
Drives:	src(43) dst (4D-FU2) other (none)
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BAIE65A5AEEF7 > 78125000 total sectors (40000000000 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</pre>
Log Highlights:	Hash Window 1418857575 bytes, Algorithms: SHA256 Block hashes from tool for SHA256 1 003925748AEC7ED3906D5753AA32E7540DCF3AA9C29C02F299E1A4C08DCFED70 2 47566F00F0357409D5908D095D542290F953F612F23234D340F34D748D3767F5 3 68A93D86B9651485C0E1AB681E7B2EA43CDF7B301C1E37D875D60505B0131A3B

Test Case DA-	07-NT DCCIDD Version 2.0	
	8 0D27501C09C4C1FD14A54B437D1A43578C09D4C5462F	EF2456A392F9F47E0BD4F
	9 1C53280822AF1FD59DACB5FCE53F7947DC5C7AD30BCF	3684FD54F3B1C6CFDD23B
	10 91F8098AC539BEB53DF00A3CF819A484909208AD2419	PAEFA4EF4AC2A56104AE1
	Reference block hashes from source drive 43	
	1 003925748AEC7ED3906D5753AA32E7540DCF3AA9C290	C02F299E1A4C08DCFED70
	2 47566F00F0357409D5908D095D542290F953F612F232	234D340F34D748D3767F5
	3 68A93D86B9651485C0E1AB681E7B2EA43CDF7B301C1	E37D875D60505B0131A3B
	8 0D27501C09C4C1FD14A54B437D1A43578C09D4C5462B	
	9 1C53280822AF1FD59DACB5FCE53F7947DC5C7AD30BCF	
	10 91F8098AC539BEB53DF00A3CF819A484909208AD2419	PAEFA4EF4AC2A56104AE1
	Acquisition hash:	
	F55B0901A6C4AE1B726C36DCB1C1E534B65975B6D5B028FC3B5	547FAF7B3A244
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
		as expected
		as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired.	as expected as expected
	AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected as expected as expected
	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-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 as expected as expected as expected as expected as expected
	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-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-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-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

5.2.31 DA-07-SWAP

Test Case DA-	07-SWAP DCCIDD Version 2.0
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Togton Nome:	had 1
Tester Name: Test Host:	brl Frank
Test Date:	Fri Oct 20 15:23:48 2006
Drives:	src(43) dst (4D-FU2) other (none)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	STC hash (MD5): < BC39C3FTEE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes)
Log Highlights:	Hash Window 215499111 bytes, Algorithms: MD5 SHA1 Block hashes from tool for MD5 1 F642CA429C3BBDF67960BAECF3E925B2 2 2E906761FB00C5A49723A25B497B10B6 3 406E76A8111E6236675733BC501F154E

Test Case DA-	07-SWAP DCCIDD Version 2.0	
	8 1A90D19475EE5484E345876883665BFE	
	9 7BDE3BC25C21379225D7CBAE820A92B1	
	10 63AEDBB8903F6A8EAC75791980D4B575	
	Reference block hashes from source drive 43	
	1 F642CA429C3BBDF67960BAECF3E925B2	
	2 2E906761FB00C5A49723A25B497B10B6	
	3 406E76A8111E6236675733BC501F154E	
	8 1A90D19475EE5484E345876883665BFE	
	9 7BDE3BC25C21379225D7CBAE820A92B1	
	10 63AEDBB8903F6A8EAC75791980D4B575	
	Block hashes from tool for SHA1	
	1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837	
	2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A	
	3 1CD836A992E2576E719E66B53DEE42C93AB40F11	
	J ICDUSUM77ZEZS/UE/I7EUUDSSDEE4ZC9SAB4UFII	
	8 A23EE0472976722D27F34730111334992D0B49A0	
	9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8	
	10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
	Reference block hashes from source drive 43	
	1 2C1CB487A2EF7A8820C02CE81C20AAD5697EE837	
	2 AA57F611BB7CC759423C6DBBABC7AACCCFFD086A	
	3 1CD836A992E2576E719E66B53DEE42C93AB40F11	
	8 A23EE0472976722D27F34730111334992D0B49A0	
	9 F1E1811AB1215618DB5CC6C8EE4E669C5495AFE8	
	10 6BAD320AC9E7DE6920E20AFCF0679A618803D8A6	
	Acquisition hash: 4B602964A30FE20D1B22B046A7375A7C	
	F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF	
	Rehash of Source SHA1: 888E2E7F7AD237DC7A732281DD93	F325065E5871
Results:	Describes & Research & Research	Datum Damala
	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.	as expected
	AO-22 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.32 DA-07-THUMB

r <u>.</u>	
	07-THUMB DCCIDD Version 2.0
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file
	on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Paladin
Test Date:	Thu Oct 19 15:53:55 2006
Drives: Source	<pre>src(D2-THUMB) dst (02) other (none) src hash (SHA256): <</pre>
Setup:	ECA93D932C8069B03C36E5AD99A163688C2A6313421D843F46E675567777E8C7 > src hash (SHA1): < 712C9F59F598745977E4E19F235F83CE8F4EC7BA > src hash (MD5): < EA06F74BE51D0730B3F7079D7A3D5AE8 > 253400 total sectors (129740800 bytes) Model (TS128MJFLASHA) serial # () N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 778135908 1141509631 0357/116/40 0357/032/45 Boot 72 other 2 P 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other 3 P 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 P 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes 3 1936028192 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes
Log Highlights:	Hash Window 8000 bytes, Algorithms: MD5 SHA1 SHA256 Block hashes from tool for MD5 1 CDE69E2068262BE4B7B9983898E4B60D 2 58101249C76B735BD74CE5302B009317 3 94F8BC2494D2E3D97254D61F99078A3B 16216 7989E05E83AACD90A091AAC2ACA4F8A4 16217 200C4EAF7206028F6C68EC24CDAB5CAD 16218 B137B7AE1D9D7AD454C762FF9943CB2E Reference block hashes from source drive D2-THUMB 1 CDE69E2068262BE4B7B9983898E4B60D 2 58101249C76B735BD74CE5302B009317 3 94F8BC2494D2E3D97254D61F99078A3B 16216 7989E05E83AACD90A091AAC2ACA4F8A4 16217 200C4EAF7206028F6C68EC24CDAB5CAD 16218 B137B7AE1D9D7AD454C762FF9943CB2E Block hashes from tool for SHA1 1 7ECA8513C1D1337AEE679E8DC192375F7E1F637A 2 75A289EEC0A33499FBAA6E89081C0EFA604FBDD4 3 D0F795061DF308677BDDFEAA91360C9BA6B4F066 16216 85CDEAB1F5793FCFD1F0F9F1534D885824F5D632 16217 736F9F375C9F5F1E3207654F7A650D8F7E491807 16218 BB62FA536CA59A7270CDF4B45D3097FA6CFEB8C9

Test Case DA	-07-THUMB DCCIDD Version 2.0	
	1 7ECA8513C1D1337AEE679E8DC192375F7E1F637A	
	2 75A289EEC0A33499FBAA6E89081C0EFA604FBDD4	
	3 D0F795061DF308677BDDFEAA91360C9BA6B4F066	
	16216 85CDEAB1F5793FCFD1F0F9F1534D885824F5D632	
	16217 736F9F375C9F5F1E3207654F7A650D8F7E491807	
	16218 DB62FA536CA59A7270CDF4B45D3097FA6CFEB8C9	
	Block hashes from tool for SHA256	
	1 821D48E67962FD78815531E60BB88F4E1743BC9A0810	
	2 668946BAB9868B28489BB906205EE1026045C8BCD3CF 3 CA27BD348D35BA6ECFEBC2F49227AFD0CF77D54BE0B2	
	16216 D3FD0FCBBA79B7DCF5C364ADE447B6481ABBA6908E23	2340@1433@841D3@@7277
	16217 60C157A734C4C46335DE3455BF25D7567A0FB34E1F47	
	16218 629A2FEAAD92D79EB882F203D57C8B342C139905854E	
	Reference block hashes from source drive D2-THUMB	
	1 821D48E67962FD78815531E60BB88F4E1743BC9A0810	CE11DC4407B74F280ECE2
	2 668946BAB9868B28489BB906205EE1026045C8BCD3CA	A62A1BDF733C65491351B
	3 CA27BD348D35BA6ECFEBC2F49227AFD0CF77D54BE0B2	26BB038B1526A6CA36869
	16216 D3FD0FCBBA79B7DCF5C364ADE447B6481ABBA6908E23	
	16217 60C157A734C4C46335DE3455BF25D7567A0FB34E1F47	
	16218 629A2FEAAD92D79EB882F203D57C8B342C139905854E	F6B46FACED9315265636A
	Acquisition hash: EA06F74BE51D0730B3F7079D7A3D5AE8	
	712C9F59F598745977E4E19F235F83CE8F4EC7BA	6755677777007
	ECA93D932C8069B03C36E5AD99A163688C2A6313421D843F46E	0/550///E8C/
Results:	Rehash of Source SHA1: 712C9F59F598745977E4E19F235F	83CE8F4EC7BA
	Rehash of Source SHA1: 712C9F59F598745977E4E19F235F	83CE8F4EC7BA
	Assertion & Expected Result	83CE8F4EC7BA Actual Result
	Assertion & Expected Result AM-01 Source acquired using interface AI.	
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	Actual Result
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected
	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.	Actual Result as expected as expected
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected as expected as expected
	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.	Actual Result as expected as expected as expected as expected
	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.	Actual Result as expected as expected as expected as expected as expected as expected
	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.	Actual Result as expected
	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.	Actual Result as expected
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	Actual Result as expected
	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.	Actual Result as expected
	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	Actual Result as expected
Analysis:	Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	Actual Result as expected

5.2.33 DA-07-X2

Test Case DA-	07-X2 DCCIDD Version 2.0
Case	DA-07 Acquire a digital source of type DS to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Frank
Test Date:	Tue Oct 17 15:18:50 2006
Drives: Source	<pre>src(43) dst (4D-FU2) other (none) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>
Setup:	Src hash (MD5): < BC39C3F7EETA50E7789BAIE65A5AEEF7 > 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
Log Highlights:	Hash Window 537107559 bytes, Algorithms: MD5 SHA256 Block hashes from tool for MD5 1 E6839D26EA376FBD35AE7363937A3EF1 2 3C0D17730CCC2EE72A4144FAC965464C 3 58EEA095F179FA10F3EE84A1934CDA64

Test Case DA-	07-X2 DCCIDD Version 2.0	
Test Case DA-	07-X2 DCCIDD Version 2.0	2D9AA76E77DB8CD5B37B6 3CD680D6270457300F168 2CFBD218C15771F1A38293 40B469147610358AF1974 2D60C713C2E60917CFE24F 2D9AA76E77DB8CD5B37B6 3CD680D6270457300F168 2CFBD218C15771F1A38293 40B469147610358AF1974 2D60C713C2E60917CFE24F 2B32B5E60E39E7
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.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	
	Infected repares delitered	

5.2.34 DA-08-ATA28

Test Case DA-	08-ATA28 DCCIDD Version 2.0	
Case Summary:	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE AM-05 If image file creation is specified, the tool on file system type FS. AM-06 All visible sectors are acquired from the digi AM-07 All hidden sectors are acquired from the digi AM-08 All sectors acquired from the digital source AO-01 If the tool creates an image file, the data refile is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a refine individual files shall be no larger than the refine individual files shall be no larger than the refine acceptable for the tool color acceptable 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 ethe digital source is unchanged by the acquisition	creates an image file ital source. tal source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment,
Tester Name:	brl	
Test Host:	Max	
Test Date:	Thu Oct 12 09:36:25 2006	
Drives: Source Setup:	src(42) dst (4D-FU2) other (none) src hash (SHA1): < 5A75399023056E0EB905082B35F8FAA1 src hash (MD5): < F4B9AAB24554EEEB2A962BDA554A9252 78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400JB-00JJC0) serial # (WD-W N Start LBA Length Start C/H/S End C/H/S bo	CAMA3958512) oot Partition type oot 07 NTFS 00 empty entry 00 empty entry 00 empty entry
Log Highlights:	Acquisition hash: F4B9AAB24554EEEB2A962BDA554A9252 5A75399023056E0EB905082B35F8FAA1DB049229 Rehash of Source SHA1: 5A75399023056E0EB905082B35F8	FAA1DB049229
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-07 All hidden 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

Test Case DA-	08-ATA28 DCCIDD Version 2.0	
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.35 DA-08-ATA48

Test Case DA-	08-ATA48 DCCIDD Version 2.0	
Case Summary:	DA-08 Acquire a physical drive with hidden sectors	to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-07 All hidden sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	AndWife	
Test Date:	Mon Oct 9 11:18:00 2006	
Drives: Source Setup:	src(4B) dst (02) other (none)	WCAL78252964) oot Partition type oot 07 NTFS 00 empty entry 00 empty entry 00 empty entry
Log Highlights:	Acquisition hash: B5641B5A594912B4D60518304B1DE698 F409920836FED76DBB60DEEEF467A6DDED5BF48E Rehash of Source SHA1: F409920836FED76DBB60DEEEF467	A6DDED5BF48E
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-07 All hidden 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

Test Case DA-	08-ATA48 DCCIDD Version 2.0	
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.36 DA-08-DCO

J.2.30	00 PGO PGGTPP Newsian 2 0	
Case DA-	08-DCO DCCIDD Version 2.0 DA-08 Acquire a physical drive with hidden sectors	to an image file
Summary:	DA-08 Acquire a physical drive with hidden sectors	to an image life.
Assertions:	AM-01 The tool uses access interface SRC-AI to acce	agg the digital gourge
ABBCI CIOIIB.	AM-02 The tool acquires digital source DS.	ess the digital source.
	AM-03 The tool executes in execution environment XI	3.
	AM-05 If image file creation is specified, the tool	l creates an image file
	on file system type FS.	
	AM-06 All visible sectors are acquired from the dig	gital 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	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 mage	roguested gigo them all
	the individual files shall be no larger than the re	-
	AO-22 If requested, the tool calculates block hashe	
	size during an acquisition for each block acquired	_
	AO-23 If the tool logs any log significant informat	tion, the information is
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe ϵ	
	the digital source is unchanged by the acquisition	process.
Tester Name:	brl	
Test Host:	McCloud	
Test Date:	Thu Oct 12 14:34:49 2006	
Drives:	<pre>src(92) dst (4D-FU2) other (none) src hash (SHA1): < 63E6F7BD3040A8ADA2CF8FBF66A805B'</pre>	7.CDE10401 >
Source Setup:	src hash (MD5): < 6386F/BD3040A8ADA2CF8FBF60A803B	
secup.	58633344 total sectors (30020272128 bytes)	
	58167/015/63 (max cyl/hd values)	
	58168/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD300BB-00CAA0) serial # (WD-W	MMA8H2140350)
	N Start LBA Length Start C/H/S End C/H/S bo	oot Partition type
	1 P 000000063 058605057 0000/001/01 1023/254/63 Bd	
	2 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	3 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	4 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 058605057 sectors 30005789184 bytes	
	Hashes with DCO in place:	
	md5:525963C6789423396FE1F3202A8CBD04	
	shal.txt:55A3CFE756B7B0034DCCE71F7D7A477D8681B781	
Log	Acquisition hash: 525963C6789423396FE1F3202A8CBD04	
Highlights:	55A3CFE756B7B0034DCCE71F7D7A477D8681B781	
	_ , , , , , , , , , , , , , , , , , , ,	455-0604-504
	Rehash of Source SHA1: 55A3CFE756B7B0034DCCE71F7D7	A477D8681B781
Pogulta:		
Results:	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	DCO not acquired
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results not achieved	
		·

5.2.37 DA-09

Test Case DA-	09 DCCIDD Version 2.0
Case Summary:	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.
Tester Name:	brl
Test Host:	Paladin
Test Date: Drives:	Fri Dec 15 09:59:24 2006 src(ED-BAD-CPR1) dst (82) other (ED-REF-CPR1)
Source	No before hash for ED-BAD-CPR1120103200 total sectors (61492838400 bytes)
Log Highlights:	Drive with known bad sectors Vendor: Maxtor Model: DiamondMax Plus 9 Known Bad Sector List for ED-CPR-BAD-1 Manufacturer: Maxtor Model: 6Y060L0 DiamondMax Plus 9 Serial Number: Y27KR6CE Capacity: 60GB Interface: PATA 10069095, 10069911, 12023808, 18652594, 18656041, 18656857, 18660303, 18661119, 19746716-19746717, 22233904, 23098370, 23383001, 24102466-24102467, 24104250, 24106656, 24107458, 28959971-28959972, 41825791, 41828995, 52654580, 52655318, 60522984, 68643842-68643843, 69973290, 72714626, 72715293, 82148809, 82148810, 83810525, 85310861, 85313430, 85314038-85314039, 86321211, 86323780, 87186066, 87856313, 87856922, 97191260-97191261, 100093150-100093151, 103861021, 109706975-109706976, 110347947, 110350122-110350123, 115664758, 115835518 Destination setup 156301488 sectors wiped with 82
HighLights:	156301488 sectors wiped with 82 Messages displayed by tool dccidd: reading '/dev/hda': Input/output error 10069088+0 records in dccidd: reading '/dev/hda': Input/output error 10069088+1 records in dccidd: reading '/dev/hda': Input/output error 10069088+2 records in 115835160+357 records in dccidd: reading '/dev/hda': Input/output error 115835160+358 records in dccidd: reading '/dev/hda': Input/output error 115835160+359 records in

```
Test Case DA-09 DCCIDD Version 2.0
              120102840+360 records in
              Comparision of original to clone Drive
              Sectors compared: 120103200
                              120102840
              Sectors match:
              Sectors differ:
                                 183960
              Bytes differ:
              Diffs range 10069088-10069095, 10069904-10069911, 12023808-12023815,
              18652592-18652599, 18656040-18656047, 18656856-18656863,
              18660296-18660303, 18661112-18661119, 19746712-19746719,
              22233904 - 22233911\,,\ 23098368 - 23098375\,,\ 23383000 - 23383007\,,
              41828992-41828999, 52654576-52654583, 52655312-52655319,
              60522984 - 60522991\,,\ 68643840 - 68643847\,,\ 69973288 - 69973295\,,
              85314032-85314039, 86321208-86321215, 86323776-86323783,
              87186064-87186071, 87856312-87856319, 87856920-87856927,
              97191256-97191263, 100093144-100093151, 103861016-103861023,
              109706968 - 109706983\,,\ 110347944 - 110347951\,,\ 110350120 - 110350127\,,
              115664752-115664759, 115835512-115835519
              Source (120103200) has 36198288 fewer sectors than destination (156301488)
              Zero fill:
              Src Byte fill (ED):
                                        0
              Dst Byte fill (82): 36198288
              Other fill:
              Other no fill:
              Zero fill range:
              Src fill range:
              Dst fill range: 120103200-156301487
              Other fill range:
              Other not filled range:
              O source read errors, O destination read errors
              Dir ../dccidd/da-09 No blockhash log
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.
                                                                 some sectors differ
               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.
                                                                 as expected
               AO-23 Logged information is correct
                                                                 as expected
               AO-24 Source is unchanged by acquisition.
                                                                 as expected
Analysis:
            Expected results not achieved
```

5.2.38 DA-12

5.2.30	DA-1Z
Test Case DA-	12 DCCIDD Version 2.0
Case Summary:	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:	Wed Oct 25 09:16:12 2006
Drives:	src(41) dst (53-IDE) other (none)
Source	src hash (SHA256): <
Setup:	FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3FFB13203F1B1D > src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 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 00000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 00000000 000000000 0000/000/00 0000/000/00 00
Tog	
Log Highlights:	Message displayed by tool 'File size limit exceeded' displayed by dccidd Hash Window 7812500 bytes, Algorithms: MD5 SHA256 Block hashes from tool for MD5 1 3A9A5C8B0F2A7946FC3C16DFBCB90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 547 04050FD5A2272626D22EF6874176762E 548 F5C81CE33F5F1A358B09D659981D1463 549 212AC410 Reference block hashes from source drive 41 1 3A9A5C8B0F2A7946FC3C16DFBCB90DC3 2 3F938F0FFF982E369F5FC299222E2A5F 3 91256F5BA4F0C5CEA90DF23D5A0C8204 5118 D21BEEAC01D1D8ABF549A3D52609DA11 5119 85BA27B05C255FDEFDB30C48E164972A
	5120 987ED61480BEE01848754A763852F95E Block hashes from tool for SHA256

	5118 5BA56973A8A0FE440E2C2E718DA73B81F0FC6EC8A02 5119 C7C9B1ED2B5E491979FB9CFD1E976C991D3DA9FC45C 5120 1A0FD5FC32CE152FAF33C0058EA823E9335C6E8A3A0 Acquisition hash: Rehash of Source SHA1: 15CAA1A307271160D8372668BF8A	03D8515271ECAE2D6 574815534DF17282E	486C
Results:	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	l
	AM-02 Source is type DS.	as expected	l
	AM-03 Execution environment is XE.	as expected	l
	AM-05 An image is created on file system type FS.	as expected	l
	AO-04 User notified if space exhausted.	as expected	l
	AO-23 Logged information is correct.	as expected	l
	33		

5.2.39 DA-14-ATA28

Test Case DA-	14-ATA28 DCCIDD Version 2.0	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
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.	
	A0-14 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 inf	formation, the information is
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	JohnSteed	
Test Date:	Fri Sep 29 13:15:18 2006	
Drives:	src(41) dst (7B) other (4D-FU2)	
Source	src hash (SHA256): <	
Setup:	FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF5	88A3A3FFB13203F1B1D >
	src hash (SHA1): < 15CAA1A307271160D8372668BF8	BA03FC45A51CC9 >
	src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCE	35607C >
	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 #	
	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	00 on empty entry
	1 0/010/90/ Sectors 399912/9104 Dytes	
Log	Destination setup	
Highlights:	78177792 sectors wiped with 7B	
	Comparision of original to clone Drive	
	Sectors compared: 78125000	
	Sectors match: 78125000	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	Source (78125000) has 52792 fewer sectors than	destination (78177792)
	Zero fill: 0	
	Src Byte fill (41): 0	
	Dst Byte fill (7B): 52792	
	Other fill: 0	
	Other no fill: 0	
	Zero fill range: Src fill range:	
	Src	
	Other fill range: /8125000-/81///91	
	Other not filled range:	
	0 source read errors, 0 destination read error	S
	1 113100 1000 011010, 0 dependential read entor	· -
	Acquisition hash: 0A6A8EF78BDC14E2026710D8CCB5	6607C
	15CAA1A307271160D8372668BF8A03FC45A51CC9	
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
	-	•

Test Case DA-14-ATA28 DCCIDD Version 2.0	
Analysis:	Expected results achieved

5.2.40 DA-14-ATA48

DA-14 Create an unaligned clone from an image file. Xammany: Amoust 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 DBT-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone device. AO-12 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: Part Host: AMOUST SET THE TOOL ROOM TO THE TOOL TO THE T	Test Case DA-	14-ATA48 DCCIDD Version 2.0	
Amsertions: An-02 The tool executes in execution environment XE. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 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. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Host: AndWife Test Host: AndWife Test Date: Mon Sep 25 17:06:37 2006 Driven: Source Setup: Setup: Setup: Setup: Setup: Setup: **Setup:** **Setup:* **Setup:** **Setup:* **Setup:** **Setup:*	Case	DA-14 Create an unaligned clone from an image	file.
A0-12 If requested, a clone is created from an image file. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 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. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: Dri Test Name: Won Sep 25 17:06:37 2006 Drives: Scrock Scurce Schup: Scro(40) dst (56-IDE) other (4D-FU2) Succe Schup: Scro(40) dst (56-IDE) other (4D-FU2) Succe Schup: Scroke (Mos) Sep 25 17:06:37 2006 Drives: Scroke (Mos) Sep 25 17:06:37 2006 Drives: Schup: Scroke (Mos) Sep 25 17:06:37 2006 Drives: Schup: Schup: Scroke (Mos) Sep 25 17:06:37 2006 Drives: Schup: Sch	Summary:		
A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 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. A0-21 If the tool logs any log significant information, the information is accurately recorded in the log file. TestE Noat: Test Noat: Test Noat: Test Noat: Test Noat: AndWife Test Date: Mon Sep 25 17:06:37 2006 Drives: Source Setup: ### STACK Out 156-1519 other (4D-FU2) Source ### STACK Out 156-1519 other (4D-FU2) ### STACK OUT 156-15519 other (4D-FU2) ### ST	Assertions:		
clone device. A0-14 if an unaligned clone is created, each sector written to the clone should be 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. A0-23 if the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Drl Test Host: AndMife Test Date: Non Sep 25 17:06:37 2006 Drives: Snc(4C) dst [56-IDE] other (4D-FU2) Source src hash (MD5): < DIDFFGSES6D4CERSA12BIAND5GC8554F872EFBF > src (4C) dst [56-IDE] other (4D-FU2) Source src hash (MD5): < DIDFFGSES6D4CERSA12BIAND5GC8554F872EFBF > src hill range: Other not filled range: Other not fille			
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 Nome: Drives: Test Nome: Drives: Test Rost: And Non Sep 25 17:06:37 2006 Drives: Src (4C) dat (56-IDE) other (4D-FU2) Source Src hash (SHA): < 8FF620D2BEDCCAFF8412EDAAD56C8554F872EFBF > Src hash (SHA): < 010FF63B56ACEBA2D1311C61F9F6382 > 39072188 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) Ad321/255/63 (max cyl/hd values) A1321/255/63 (max cyl/hd values) A1321/			e DST-AI to write to the
accurately writem 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 the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Drives: Mon Sep 25 17:06:37 2006 Drives: Src (Ac) dat (56-IDE) other (4D-FU2) Source Src hash (SHA1): < 8FF620DZEEDCCAFF8412EDAAD56C8554F872EFBF > Src hash (MD5): < D10F763B56HCERAZD1311C61F9FB382 > 330721968 total sectors (200049647616 bytes) 24321/255/63 (number of cyl/hd) IDE disk: Model (MDC WD20001B-OKFA0) serial # (WD-WMAMR1031111) N Start LEA Length Start C/H/S End C/H/S boot Partition type 1 P000000000 000000000 0000/000/00 0000/000/00 00			
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 Date: AndWife Test Date: Mon Sep 25 17:06:37 2006 Drives: Src hash (SMA): Srg Stock Str hash (SMA): Str hash (SMA			
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 Name: br			the clone that the sector
not modified.			
A0-23 if the tool logs any log significant information, the information is accurately recorded in the log file. Test Host:			one destination device are
Tester Name: brl			
Tester Name: brl Test Host: AndWife Test Date: Mon Sep 25 17:06:37 2006 Drives: src (Ac) dst (56-1DE) other (4D-FU2) Source Src hash (SRA1): < SFF620D2EEDCCAFE8412EDAAD56C9554F872EFBF > Sctup: src hash (MDS): < 5100F763E504CEBA2D1311C61F9FB382 > 3390721968 total sectors (200049647616 bytes) 24321/255/63 (number of cyl/hd) IDE disk: Model (MDC ND2000078-00KFA0) serial # (WD-WMAMR1031111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000000 39700737 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 00000000 00000000 0000/000/00 0000/000/00 00			ormation, the information is
Test Date:		accurately recorded in the log life.	
Test Date:	Tester Name:	hrl	
Test Date: Mon Sep 25 17:06:37 2006 Drives: sr(4C) dst (56-IDE) other (4D-FU2) Source sr hash (SHAl): < 8FF620DZBEDCCAFE8412EDAAD56C8554F872EFBF > src hash (SHAl): < 8FF620DZBEDCCAFE8412EDAAD56C8554F872EFBF > src hash (MD5): < D10F763B56D4CBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes)			
Drives: src(4C) dst (56-IDE) other (4D-FU2)			
Source			
Sectup: src hash (MD5): < D10F763B56D4CBBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/2554/63 (mamber of cyl/hd) 1DE disk: Model (MDC WD20000B=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			COFF/E072FFDF >
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 0000/0000/00 00	secup.		7FB302 >
24321/255/63 (number of cyl/hd) IDE disk: Model (WDC WD2000JB-00KFA0) serial # (WD-WMAMR1031111) N			
IDE disk: Model (WDC WD2000JB-00KFA0) serial # (WD-WMAMR1031111) N			
N			: (WD-WMAMR1031111)
1 P 000000063 390700737 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			
3 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry 4 P 000000000 00000000000000000000000			
A P 000000000 000000000 0000/000/000 0000/000/00 1 390700737 sectors 200038777344 bytes			
Log Highlights: Destination setup 488397168 sectors wiped with 56 Comparision of original to clone Drive Sectors compared: 390721968 Sectors differ: 0 Bytes 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 (56): 97675200 Other no fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other intl range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CBBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
Destination setup Highlights: Destination setup 488397168 sectors wiped with 56 Comparision of original to clone Drive 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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src 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 Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF62DD2BEDCCAFE8412EDAAD56C8554F872EFBF 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			00 on empty entry
Highlights: 488397168 sectors wiped with 56 Comparision of original to clone Drive 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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result		1 390700737 Sectors 200030777344 Dytes	
Highlights: 488397168 sectors wiped with 56 Comparision of original to clone Drive 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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result	Ivoa	Destination setup	
Comparision of original to clone Drive 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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: 0 Other not filled range: O source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result	-	_	
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 (56): 97675200 Other fill: 0 Other no fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: 0 Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result	iiigiiiigiico.	100357100 Beecolb wiped with 30	
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 (56): 97675200 Other fill: 0 Other no fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: 0 Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result		Comparision of original to clone Drive	
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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Dst fill range: 0 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other not fille drange: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF 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-17 Excess sectors are unchanged. as expected		_	
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 (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 0 Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range: 0 Other not filled range: 0 Source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: Src Byte fill (4C): Obst Byte fill (56): 97675200 Other fill: Other no fill: Other no fill: Other no fill: Other fill range: Src fill range: Src fill range: Other fill range: Other not filled range: Other not filled range: Osource read errors, O destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF62OD2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result		<u>-</u>	
Zero fill: Src Byte fill (4C): Dst Byte fill (56): 97675200 Other fill: Other no fill: Ozero fill range: Src fill range: Src fill range: Dst fill range: Other not filled range: Other not filled range: Other not filled range: Osource read errors, O destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result AM-03 Execution environment is XE. ASOURCE ACOUNT ACTUAL RESULT AM-012 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		9	than destination (488397168)
Src Byte fill (4C): 0 Dst Byte fill (56): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range: 0 ther not filled range: Other not filled range: Other not filled range: O source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			(,
Dst Byte fill (56): 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 Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
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 Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
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 Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
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 Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result AM-03 Execution environment is XE. ASSERTION & Expected Result 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			
Src fill range: Dst fill range: 390721968-488397167 Other fill range: Other not filled range: O source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result			
Dst fill range: 390721968-488397167 Other fill range: Other not filled range: O source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected 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			
Other fill range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected 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			
Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected 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			
0 source read errors, 0 destination read errors Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected Result AM-03 Execution environment is XE. as expected A0-12 A clone is created from an image file. as expected A0-13 Clone created using interface AI. as expected A0-14 An unaligned clone is created. as expected A0-17 Excess sectors are unchanged. as expected			
Acquisition hash: D10F763B56D4CEBA2D1311C61F9FB382 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF Results: Assertion & Expected 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			°S
Results: Assertion & Expected 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		,	
Results: Assertion & Expected 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		Acquisition hash: D10F763B56D4CEBA2D1311C61F9F	B382
Assertion & Expected 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			
Assertion & Expected 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			
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	Results:		
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			Actual Result
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		AM-03 Execution environment is XE.	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-12 A clone is created from an image file.	as expected
AO-14 An unaligned clone is created. as expected AO-17 Excess sectors are unchanged. as expected			
AO-17 Excess sectors are unchanged. as expected			
no as assess and an expected as expected.			
			and outpooled

Test Case DA-	14-ATA48 DCCIDD Version 2.0
Analysis:	Expected results achieved

5.2.41 DA-14-CF

Test Case DA-	14-CF DCCIDD Version 2.0	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environment	
	AO-12 If requested, a clone is created from an	_
	AO-13 A clone is created using access interface	e DST-AI to write to the
	clone device. AO-14 If an unaligned clone is created, each so	agtor emitton to the glone is
	accurately written to the same disk address on	
	occupied on the digital source.	the crone that the sector
	AO-17 If requested, any excess sectors on a clo	one destination device are
	not modified.	
	AO-23 If the tool logs any log significant info	ormation, the information is
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Frank	
Test Date:	Fri Dec 15 09:13:15 2006	
Drives:	src(C1-CF) dst (C2-CF) other (4D-FU2)	
Source	src hash (SHA256): <	D 2D 20 2D D D 2 4 5 0 0 5 2 2
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795A	
	src hash (SHA1): < 5B8235178DF99FA307430C088F8 src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC	
	503808 total sectors (257949696 bytes)	100/6 >
	Model (CF) serial # ()	
		boot Partition type
	1 P 778135908 1141509631 0357/116/40 0357/032	
	2 P 168689522 1936028240 0288/115/43 0367/114	
	3 P 1869881465 1936028192 0366/032/33 0357/03	2/43 Boot 79 other
	4 P 2885681152 000055499 0372/097/50 0000/010	/00 Boot 0D other
	1 1141509631 sectors 584452931072 bytes	
	2 1936028240 sectors 991246458880 bytes	
	3 1936028192 sectors 991246434304 bytes	
	4 000055499 sectors 28415488 bytes	
T	Dankinski su sakus	
Log Highlights:	Destination setup 503808 sectors wiped with C2	
mightights.	303000 Sectors wiped with C2	
	Comparision of original to clone Drive	
	Sectors compared: 503808	
	Sectors match: 503808	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	0 source read errors, 0 destination read errors	s
	77.0000.0000.0000.0000.0000.0000.0000.	CD70
	Acquisition hash: 776DF8B4D2589E21DEBCF589EDC1 5B8235178DF99FA307430C088F81746606638A0B	6D78
	350233170DF99FA307430C000F01740000030A0B	
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	

5.2.42 DA-14-F12

Test Case DA-	14-F12 DCCIDD Version 2.0
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
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:	Wed Oct 18 15:27:55 2006
Drives:	src(43) dst (6B) other (4D-FU2)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	<pre>src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>
	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 0C Fat32X
	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 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63
	9 S 000000063 008401932 1023/001/01 1023/254/63
	10 x 014731605 010490445 1023/000/01 1023/254/63
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 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
	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
	Partition Hashes
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE 43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906
	43F32X md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906 43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E
	101.110 Maddam 111000/0/11 Ob 1211101/0002ACI BI 2D010072D/1111B
Log	Destination setup
Highlights:	156301488 sectors wiped with 6B
5 5	Comparision of original to clone Partition
	Sectors compared: 32067
	Sectors match: 32067
	Sectors differ: 0
	Bytes differ: 0
	Bytes differ: 0

Test Case D	A-14-F12 DCCIDD Version 2.0	
	Diffs range:	
	run start Thu Oct 19 10:49:23 2006	
	run finish Thu Oct 19 10:49:35 2006	
	elapsed time 0:0:12	
	Normal exit	
	Acquisition hash: CBA0C9984F51778E89DEF0C6BED0	6864
	6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0	
Results:		1
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	IN 05 ENGOGOTON CHIVETONMOND ID NE.	
	AO-12 A clone is created from an image file.	as expected
		-
	AO-12 A clone is created from an image file.	as expected
	AO-12 A clone is created from an image file. AO-13 Clone created using interface AI.	as expected as expected
	AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected as expected
	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.	as expected as expected as expected as expected
	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.	as expected as expected as expected as expected

5.2.43 DA-14-F16

Test Case DA-	14-F16 DCCIDD Version 2.0
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
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:	JohnSteed
Test Date:	Thu Oct 19 15:07:17 2006
Drives:	src(43) dst(6B) other (4D-FU2)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	<pre>src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>
	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 0C Fat32X
	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 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63
	9 S 000000063 008401932 1023/001/01 1023/254/63
	10 x 014731605 010490445 1023/000/01 1023/254/63
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 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
	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
	Partition Hashes
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C 43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874
	43XZ md5Sum 14188575744 5D42FA317C802ACFEF2D313092D7411E
	137110 "MASSAM III003/3/11 3DIZERSI/COVARCEEE ZD313V7ZD/HILE
Log	Destination setup
Highlights:	156301488 sectors wiped with 6B
	Comparision of original to clone Partition
	Sectors compared: 2104452
	Sectors match: 2104452
	Sectors differ: 0
	Bytes differ: 0
	, -

Test Case DA-	14-F16 DCCIDD Version 2.0	
	Diffs range: Source (2104452) has 32130 fewer sectors than 6 Zero fill: 0 Src Byte fill (43): 0 Dst Byte fill (6B): 32130 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 2104452-2136581 Other fill range: Other not filled range: run start Thu Oct 19 14:01:12 2006 run finish Thu Oct 19 14:11:55 2006 elapsed time 0:10:43 Normal exit Acquisition hash: 37E81FFB31C3CB38AA48B22375009 443CCEC9A22F726DAF6CE384817151C83B3EBC8B	
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	

5.2.44 DA-14-F32

Test Case DA-	14-F32 DCCIDD Version 2.0
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
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:	Thu Oct 19 15:04:23 2006
Drives:	src(43) dst (6B) other (4D-FU2)
Source Setup:	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >
Sccap.	78125000 total sectors (40000000000 bytes)
	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
	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
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	14 x 029431080 027712125 1023/000/01 1023/254/63
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 2146/65824 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 027712062 sectors 14188575744 bytes
	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Partition Hashes
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E
Log	Destination setup
Log Highlights:	156301488 sectors wiped with 6B
	Comparision of original to clone Partition
	Sectors compared: 8401932
	Sectors match: 8401932
	Sectors differ: 0
	Bytes differ: 0
	-

Test Case DA-	14-F32 DCCIDD Version 2.0	
	Diffs range: Source (8401932) has 851445 fewer sectors than Zero fill: 0 Src Byte fill (43): 0 Dst Byte fill (6B): 851445 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 0ther fill range: 0ther not filled range: run start Thu Oct 19 15:50:17 2006 run finish Thu Oct 19 16:34:49 2006 elapsed time 0:44:32 Normal exit Acquisition hash: 2C4D8D450E5AD28329F616D871140 72462489BCF79A98B59B6A8CD938FEB46FA2A781	
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	

5.2.45 DA-14-F32X

Test Case DA-	14-F32X DCCIDD Version 2.0
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
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:	Frank
Test Date:	Mon Oct 23 10:50:27 2006
Drives: Source	<pre>src(43) dst (95) other (4D-FU2) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >
20002	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
	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
	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
	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
	Partition Hashes
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E
Log	Destination setup
Highlights:	58633344 sectors wiped with 95
	Comparision of original to clone Partition
	Sectors compared: 20980827 Sectors match: 20980827
	Sectors match: 20980827 Sectors differ: 0
	Bytes differ: 0
	L -1

Test Case DA	-14-F32X DCCIDD Version 2.0	
	Diffs range: run start Mon Oct 23 12:11:50 2006 run finish Mon Oct 23 13:58:18 2006 elapsed time 1:46:28	
Danisha	Normal exit Acquisition hash: 379ClAC47AF956FC8C80389C2A74	27A7F8FB4E89
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
	30 15 5	as expected
	AO-17 Excess sectors are unchanged.	as expected

5.2.46 DA-14-FW

Test Case DA-	Test Case DA-14-FW DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
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.	and destruction destruction	
	A0-17 If requested, any excess sectors on a cl not modified.	one destination device are	
	AO-23 If the tool logs any log significant inf	formation the information is	
	accurately recorded in the log file.	ormacion, the informacion is	
	decaratery recorded in the roy rire.		
Tester Name:	brl		
Test Host:	JohnSteed		
Test Date:	Thu Sep 28 17:11:14 2006		
Drives:	src(63-FU2) dst (2B-FU2) other (4D-FU2)		
Source	src hash (SHA1): < F7069EDCBEAC863C88DECED8215	9F22DA96BE99B >	
Setup:	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065		
	117304992 total sectors (60060155904 bytes)		
	Model (SP0612N) serial # ()		
		B boot Partition type	
	1 P 000000063 004192902 0000/001/01 0260/254/		
	2 X 004192965 113097600 0261/000/01 1023/254/	63 OF 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/	00 00 empty entry	
	6 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry	
	1 004192902 sectors 2146765824 bytes		
	3 113097537 sectors 57905938944 bytes		
Log	Destination setup		
Highlights:	488397168 sectors wiped with 2B		
	Comparigion of original to glone Drive		
	Comparision of original to clone Drive		
	Sectors compared: 117304992 Sectors match: 117304992		
	Sectors match: 117304992 Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (117304992) has 371092176 fewer sectors	than destination (488397168)	
	Zero fill: 0		
	Src Byte fill (63): 0		
	Dst Byte fill (2B): 371092176		
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 117304992-488397167		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read error	rs .	
	Aggrigition hagh: EE017DG4E44E3D1D4001D00D06E3	AOEC	
	Acquisition hash: EE217BC4FA4F3D1B4021D29B065A F7069EDCBEAC863C88DECED82159F22DA96BE99B	AMPEC	
	F 1007EDCDEAC003C00DECED0ZI37FZZDA70BE77B		
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	
L			

Test Case DA-	14-FW DCCIDD Version 2.0
Analysis:	Expected results achieved

5.2.47 DA-14-NT

Test Case DA-	14-NT DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
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.		
Maghan Namat	\h1		
Tester Name: Test Host:	brl Max		
Test Date:	Fri Oct 20 10:51:21 2006		
Drives:	src(43) dst (6B) other (4D-FU2)		
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >		
<u>-</u>	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 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		
	18 P 000000000 00000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	Partition Hashes		
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864		
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E		
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE		
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906		
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C		
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874		
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E		
T	Beatle at least an artist and a second at least a second at least a second at least a second at least a second		
Log	Destination setup		
Highlights:	156301488 sectors wiped with 6B		
	Comparision of original to clone Partition Sectors compared: 27712062		
	Sectors match: 27712062		
	Sectors differ: 0		
	Bytes differ: 0		
	_ arrow to _ t		

Test Case DA-	A-14-NT DCCIDD Version 2.0		
	Diffs range: Source (27712062) has 2779245 fewer sectors the Zero fill: O Src Byte fill (43): 0 Dst Byte fill (6B): 2779244 Other fill: O Other no fill: 1 Zero fill range: Src fill range: Dst fill range: 27712062-30491305 Other fill range: Other not filled range: 30491306 run start Fri Oct 20 12:52:30 2006 run finish Fri Oct 20 15:19:20 2006 elapsed time 2:26:50 Normal exit Acquisition hash: F55B0901A6C4AE1B726C36DCB1C1E534B65975B6D5B0283		
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-SATA28

Test Case DA-14-SATA28 DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
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 interfac	e 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 cl	one destination device are
	not modified.	
	AO-23 If the tool logs any log significant inf	formation, the information is
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host: Test Date:	Frank Wed Oct 4 09:29:45 2006	
Drives:		
Source	src(07) dst (1B) other (4D-FU2) src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32E	00000117000000
Setup:	src hash (MD5): < 2EAF712DAD80F66E30DEA00365E	
secup.	156301488 total sectors (80026361856 bytes)	751756 /
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ9151	0044)
	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 000000000 000000000 0000/000/00 0000/000/	
	4 P 000000000 000000000 0000/000/00 0000/000/	
	1 156280257 sectors 80015491584 bytes	
Log	Destination setup	
Highlights:	234441648 sectors wiped with 1B	
	Comparision of original to clone Drive	
	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:	chan descinación (234441040)
	Src Byte fill (07): 0	
	Dst Byte fill (1B): 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 error	rs
		5500
	Acquisition hash: 2EAF712DAD80F66E30DEA00365B4	1579B
	655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E	
Results:		
VEDUTED.	Assertion & Expected Result	Actual Result
1	AM-03 Execution environment is XE.	4
1	AO-12 A clone is created from an image file.	as expected as expected
1	AO-12 A Clone is created from an image life. AO-13 Clone created using interface AI.	
1	AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected
1		as expected
1	AO-17 Excess sectors are unchanged. AO-23 Logged information is correct.	as expected
	AO-23 Logged information is correct. as expected	
1		
Analysis:	Expected results achieved	
111011010.	Linguista Tobatob dolliteved	

5.2.49 DA-14-SATA48

Test Case DA-	14-SATA48 DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image	file.	
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an		
	AO-13 A clone is created using access interfac	e DST-AI to write to the	
	clone device.		
	A0-14 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 cl	one destination device are	
	not modified.		
	AO-23 If the tool logs any log significant inf	formation, the information is	
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Frank		
Test Date:	Tue Oct 3 12:49:33 2006		
Drives:	src(16) dst (0F) other (4D-FU2)		
Source	src hash (SHA1): < F82982A9C63133988C1D2B4DA7C	19C25CC32D7735 >	
Setup:	src hash (MD5): < 7BB1D64D47671ED3E69130A2AD0		
υς ε αρι	312581808 total sectors (160041885696 bytes)	TOTAUZ >	
	19456/254/63 (max cyl/hd values)		
	19457/255/63 (number of cyl/hd)		
	Model (WDC WD1600JD-00G) serial # (WD-WMAES205	(8252)	
		boot Partition type	
	1 P 00000063 312560577 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 312560577 sectors 160031015424 bytes	oo empey enery	
Log	Destination setup		
Highlights:	488397168 sectors wiped with F		
5 5	•		
	Comparision of original to clone Drive		
	Sectors compared: 312581808		
	Sectors match: 312581808		
	Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (312581808) has 175815360 fewer sectors	than destination (488397168)	
	Zero fill: 0		
	Src Byte fill (16): 0		
	Dst Byte fill (0F): 175815360		
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 312581808-488397167		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read error	`s	
	·		
	Acquisition hash: 7BB1D64D47671ED3E69130A2AD08	FA02	
	F82982A9C63133988C1D2B4DA7C9C25CCA2D77A5		
Results:		T	
	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	

Test Case DA-	14-SATA48 DCCIDD Version 2.0
Analysis:	Expected results achieved

5.2.50 DA-14-SCSI

Test Case DA-	14-SCSI DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:	21 11 croude an anarytical cross 210m an image 1110.		
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 cl	one destination device are	
	not modified.		
	AO-23 If the tool logs any log significant inf	ormation, the information is	
	accurately recorded in the log file.		
Tester Name:	brl		
	AndWife		
Test Host: Test Date:	Tue Sep 26 14:51:56 2006		
Drives:	src(2A) dst (E6) other (4D-FU2)		
Source	src hash (SHA256): <		
Setup:	AE8E839101661367D92803D5F5D408268635EFD8A05FEA	633838CDC3919F5ARA >	
pecup.	src hash (SHA1): < F5F9F2903DCAB895F36E270FB22		
	src hash (MD5): < 91E0AC905F682ECF6DE4E983508		
	17783249 total sectors (9105023488 bytes)		
	Model (QM39100TD-SCA) serial # (PCB=20-1167	11-06 HDAQM39100TD-SCA)	
	N Start LBA Length Start C/H/S End C/H/S		
	1 P 000000063 017751762 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 00 empty entry	
	1 017751762 sectors 9088902144 bytes		
Log	Destination setup		
Highlights:	35843670 sectors wiped with E6		
	Comparision of original to clone Drive		
	Sectors compared: 17783249 Sectors match: 17783249		
	Sectors match: 17783249 Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (17783249) has 18060421 fewer sectors t	han destination (35843670)	
	Zero fill: 0	nan accentación (55015070)	
	Src Byte fill (2A): 0		
	Dst Byte fill (E6): 18060421		
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 17783249-35843669		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read error	s	
	Acquisition hash: 91E0AC905F682ECF6DE4E9835089	B519	
	F5F9F2903DCAB895F36E270FB22A722E27918125		
D			
Results:	Departure & Francisco & T.		
	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	

Test Case DA-	14-SCSI DCCIDD Version 2.0
Analysis:	Expected results achieved

5.2.51 DA-14-SWAP

Test Case DA-	14-SWAP DCCIDD Version 2.0		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
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.		
Marchael March	11		
Tester Name:	brl		
Test Host:	Max Fri Oct 20 15:56:37 2006		
Test Date: Drives:	src(43) dst (6B) other (4D-FU2)		
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >		
200mp.	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		
	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		
	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		
	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		
	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		
	The state of the s		
	Partition Hashes 43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864		
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E		
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE		
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906		
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C		
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874		
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E		
Log	Destination setup		
Highlights:	156301488 sectors wiped with 6B		
	Comparision of original to clone Partition		
	Sectors compared: 4208967		
	Sectors match: 4208967 Sectors differ: 0		
	Bytes differ: 0		
	Tataon granter.		

Test Case DA	-14-SWAP DCCIDD Version 2.0		
	Diffs range:		
	run start Fri Oct 20 17:04:05 2006		
	run finish Fri Oct 20 17:26:50 2006		
	elapsed time 0:22:45		
	Normal exit		
	Acquisition hash: 4B602964A30FE20D1B22B046A737	Acquisition hash: 4B602964A30FE20D1B22B046A7375A7C	
	F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF		
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	

5.2.52 DA-14-THUMB

Test Case DA-14-THUMB DCCIDD Version 2.0				
Case	DA-14 Create an unaligned clone from an image	file.		
Summary:				
Assertions:	AM-03 The tool executes in execution environment XE.			
	AO-12 If requested, a clone is created from an			
	AO-13 A clone is created using access interfac	e DST-AI to write to the		
	clone device.			
	AO-14 If an unaligned clone is created, each s			
	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 cl	one destination device are		
	not modified.			
	AO-23 If the tool logs any log significant inf accurately recorded in the log file.	ormation, the information is		
	accurately recorded in the log life.			
Tester Name:	brl			
Test Host:	Paladin			
Test Date:	Thu Oct 19 17:50:26 2006			
Drives:	src(D2-THUMB) dst (D5-THUMB) other (02)			
Source Setup:	src hash (SHA256): < ECA93D932C8069B03C36E5AD99A163688C2A6313421D84	3₽46₽675567777₽₽₽? ~		
perup.	src hash (SHA1): < 712C9F59F598745977E4E19F235			
	src hash (MD5): < EA06F74BE51D0730B3F7079D7A3			
	253400 total sectors (129740800 bytes)	DOMEO >		
	Model (TS128MJFLASHA) serial # ()			
	N Start LBA Length Start C/H/S End C/H/S	boot Partition type		
	1 P 778135908 1141509631 0357/116/40 0357/032			
	2 P 168689522 1936028240 0288/115/43 0367/114			
	3 P 1869881465 1936028192 0366/032/33 0357/03			
	4 P 2885681152 000055499 0372/097/50 0000/010	/00 Boot 0D other		
	1 1141509631 sectors 584452931072 bytes			
	2 1936028240 sectors 991246458880 bytes			
	3 1936028192 sectors 991246434304 bytes			
	4 000055499 sectors 28415488 bytes			
Log	Destination setup			
Highlights:	505856 sectors wiped with D5			
	Comparision of original to clone Drive			
	Sectors compared: 253400			
	Sectors match: 253400			
	Sectors differ: 0			
	Bytes differ: 0			
	Diffs range			
	Source (253400) has 252456 fewer sectors than destination (505856)			
	Zero fill: 0 Src Byte fill (D2): 0			
	Dst Byte fill (D5): 252456			
	Other fill: 0			
	Other fill: 0 Other no fill: 0			
	Zero fill range:			
	Src fill range:			
	Dst fill range: 253400-505855			
	Other fill range:			
	Other not filled range:			
	0 source read errors, 0 destination read error	S		
	Acquisition hash: EA06F74BE51D0730B3F7079D7A3D	5AE8		
	712C9F59F598745977E4E19F235F83CE8F4EC7BA			
	ECA93D932C8069B03C36E5AD99A163688C2A6313421D84	3F46E675567777E8C7		
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		

Test Case DA-	14-THUMB DCCIDD Version 2.0		
	AO-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.53 DA-14-USB

Case DA-14 (Preate an unaligned clone from an image file.	Assertions: Assertions: AM-03 The total AO-12 If requivalent and accurately with accurately with accurately modern acc	A-14-USB DCCIDD Version 2.0			
Assertions: An-013 The tool executes in execution environment XE. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 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. A0-23 if the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Driver: Spr 29 10:34:29 2006	Assertions: AM-03 The total AO-12 If requation AO-13 A clone clone device AO-14 If an accurately we occupied on the AO-17 If requation accurately respectively. AO-23 If the accurately respectively. AO-25 If the accurately respectively. AO-26 If the accurately respectively. AO-27 If requant accurately respectively. AO-28 If the accurately respectively. AO-29 If the accurately respectively. AO-13 If the accurately respectively. AO-13 Chone AO-14 An unit AO-17 Exces	DA-14 Create an unaligned clone from an image file.			
A0-12 if requested, a clone is created from an image file. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 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. A0-23 if the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Test Name: Test Host: JohnSteed Test Date: Fri Sep 29 10:34:29 2006 Drives: src hash (SRA1): < A78EDBSE9029B0CDF199B4B62119F81208A252A > src hash (MDS): < 90311DDF672BBCGA0869A46F4A455A7E > 39070080 total sectors (20003860960 bytes) 19076/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Log Destination setup Sectors differ: Bytes differ: Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Sectors differ: Drives d	AO-12 If requested AO-13 A clone clone device AO-14 If an accurately we occupied on AO-17 If requested AO-23 If the accurately restricted AO-24 Full Control (A)-100-100-100-100-100-100-100-100-100-10				
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 Name: Pri Sep 29 10:34:29 2006 Drives: Src (24-FU2) dst (33-FU2) other (4D-FU2) Source Setup:	AO-13 A clone clone device AO-14 If an accurately wisoccupied on AO-17 If requested AO-23 If the accurately restricted AO-24 If the accurately restricted AO-13 AO-13 Clone AO-14 An unaccurately wis occupant of the restricted AO-17 Exces	AM-03 The tool executes in execution environment XE.			
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	clone device AO-14 If an accurately wooccupied on AO-17 If required not modified AO-23 If the accurately restricted accurately restr				
AO-14 If an unaligned clome 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 Name: Test Name: Test Host: JohnSteed Test Date: Pri Sep 29 10:34:29 2006 Drives: src (24-FU2) dst (33-FU2) other (4D-FU2) Source src hash (RM51: < A78EDBSE90298DCCDF19984B62119F81208A252A > src hash (RM51: < Source (20003880960 bytes) 19076/063/32 (max cyl/hd values) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Log Destination setup Highlights: Setors differ: O Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: O Byte fill (24): O Byte fill (24): O Dat Byte fill (24): O Dat Byte fill (24): O Dat Byte fill (24): O Cother no fill: Zero fill range: Src fill range: Dat fill range: Other not fill range: Other fill range: Oscurce read errors, O destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDBSE90298DOCDF199B4B62119F81208A252A Results: ASSERTION & Expected Result	AO-14 If an accurately wo occupied on the AO-17 If required not modified AO-23 If the accurately research to the accurately resea	is created using access interfac	e DST-AI to write to the		
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 Name: Test Name: Test Place: Test Pare: Fri Sep 29 10:34:29 2006 Drives: Source Serc hash (SHAI): < A78EDB5E90298DCCDF19984862119F81208A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF199	accurately wo occupied on the AO-17 If requisition is a sector sumple se				
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 Name: Test Name: Test Place: Test Pare: Fri Sep 29 10:34:29 2006 Drives: Source Serc hash (SHAI): < A78EDB5E90298DCCDF19984862119F81208A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF1998486210FR108A252A > src hash (SHAI): < A78EDB5E90298DCCDF199	accurately wo occupied on the AO-17 If requisition is a sector sumple se	naligned clone is created, each s	sector written to the clone is		
occupied on the digital source. AO-17 ff 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 Name: brl Test Host: JohnSteed Trest Date: Fri Sep 29 10:34:29 2006 Drives: src(24-FU2) dst (33-FU2) other (4D-FU2) Source src hash (SHA1): A 78EDBS590298DCDF19984B62119F81208A252A > src hash (MD5): < 90311DDF672B8CBA0869A46F4A455A7E > 39070080 total sectors (20003880960 bytes) 19076/064/32 (max cyl/hd values) 19077/064/32	occupied on a AO-17 If requested and accurately rester Name: Tester Name: brl Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of src hash (Mid 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME) Log Destination of Sectors companied Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range Strong Sectors matched Sectors differ Diffs range Source (39070 Zero fill: Src Byte fill: Other fill: Other no fill: Zero fill range Strong Sectors matched Sectors differ Diffs range Source (39070 Zero fill: Src Byte fill: Other fill: Other no fill: Zero fill range Strong Sectors matched Sectors differ Diffs range Source (39070 Zero fill: Src Byte fill: Other not fill: Other n	accurately written to the same disk address on the clone that the sector occupied on the digital source.			
not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: brl Test Host: JohnSteed Trest Date: Fri Sep 29 10:34:29 2006 Drives: src(24-FU2) dst (33-FU2) other (4D-FU2) Source src hash (SHAI): < A78EDB5590298DDCDF199B4B62119F81208A252A > src hash (MD5): < 90311DDF672B8CBAD869A46F4A455A7E > 3907080 total sectors (20023880960 bytes) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Destination setup Sectors ompared: 39070080 Sectors compared: 39070080 Sectors sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors sectors differ: 0 Bytes differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (24): 0 Dst Byte fill (24): 0 Other no fill: 0 Other no fill: 0 Other fill range: Src fill range: 39070080-58605119 Other fill range: 39070080-58605119 Other fill range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298DCDF199B4B62119F81208A252A 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	not modified AO-23 If the accurately rester Name: Tester Name: brl Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of Source src hash (SH) Src hash (M) 39070080 total 19076/063/32 19077/064/32 Model (ATCSOURCE) Log Destination Sectors compassed for sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Src Byte fill: Other no fill: Zero fill range of the rest fill range of				
not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: brl Test Host: JohnSteed Trest Date: Fri Sep 29 10:34:29 2006 Drives: src(24-FU2) dst (33-FU2) other (4D-FU2) Source src hash (SHAI): < A78EDB5590298DDCDF199B4B62119F81208A252A > src hash (MD5): < 90311DDF672B8CBAD869A46F4A455A7E > 3907080 total sectors (20023880960 bytes) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Destination setup Sectors ompared: 39070080 Sectors compared: 39070080 Sectors sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors sectors differ: 0 Bytes differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (24): 0 Dst Byte fill (24): 0 Other no fill: 0 Other no fill: 0 Other fill range: Src fill range: 39070080-58605119 Other fill range: 39070080-58605119 Other fill range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298DCDF199B4B62119F81208A252A 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	not modified AO-23 If the accurately rester Name: Tester Name: brl Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of Source src hash (SH) Src hash (M) 39070080 total 19076/063/32 19077/064/32 Model (ATCSOURCE) Log Destination Sectors compassed for sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Src Byte fill: Other no fill: Zero fill range of the rest fill range of				
Tester Name: brl Test Host:	Tester Name: brl Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of Source src hash (Mid 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME) Log Destination of Sectors comparison of Sectors comparison of Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range Source (39070 Zero fill: Src Byte fill: Other not fill: Other not fill: Other not fill range Source read Acquisition of A78EDB5E90290 Sectors	_			
Tester Name: brl Test Bote: JohnSteed Test Date: Fri Sep 29 10:34:29 2006 Drives: src(24-FU2) dst (33-FU2) other (4D-FU2) Source	Tester Name: brl Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of Source src hash (SHE Setup: src hash (MI 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME Model (ATCSOME Model (ATCSOME MODE) Sectors comparison of Sectors comparison of Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill Dat Byte fill: Other no fill: Zero fill range Source (311 range So	tool logs any log significant inf	formation, the information is		
Test Host:	Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of src hash (SH2 Setup: src hash (M39070080 total 19076/063/32 19077/064/32 Model (ATCSOME) Log Destination of Sectors compassed Sectors atcled Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other not fill Zero fill range State of Sectors fill range State of Sectors fill range Source (39070 Zero fill: Src Byte fill: Other not fill Zero fill range State of Sectors fill range Sectors fill	corded in the log file.			
Test Host:	Test Host: JohnSteed Test Date: Fri Sep 29 10 Drives: src(24-FU2) of src hash (SH2 Setup: src hash (M39070080 total 19076/063/32 19077/064/32 Model (ATCSOME) Log Destination of Sectors compassed Sectors atcled Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other not fill Zero fill range State of Sectors fill range State of Sectors fill range Source (39070 Zero fill: Src Byte fill: Other not fill Zero fill range State of Sectors fill range Sectors fill				
Test Date: Fri Sep 29 10:34:29 2006	Test Date: Fri Sep 29 10 Drives: src(24-FU2) of src hash (SHz src hash (MI 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME Highlights: Sectors comparision of Sectors comparision of Sectors and Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range State for section of sectors differ Sectors differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range State fill: Other no fill: Zero fill range State fill: Other no fill: Zero fill range State fill: Other not fill of source readed Acquisition in A78EDB5E90296 Results: Assertion & AMBOR ASSERTION & AMBOR ASSERTION AND AND AND AND AND AND AND AND AND AN				
Test Date: Fri Sep 29 10:34:29 2006	Test Date: Fri Sep 29 10 Drives: src(24-FU2) of src hash (SHz src hash (MI 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME Highlights: Sectors comparision of Sectors comparision of Sectors and Sectors differ Bytes differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range State for section of sectors differ Sectors differ Diffs range Source (39070 Zero fill: Src Byte fill: Other no fill: Zero fill range State fill: Other no fill: Zero fill range State fill: Other no fill: Zero fill range State fill: Other not fill of source readed Acquisition in A78EDB5E90296 Results: Assertion & AMBOR ASSERTION & AMBOR ASSERTION AND AND AND AND AND AND AND AND AND AN				
Drives: src(24-FU2) dst (33-FU2) other (4D-FU2)	Drives: src (24-FU2) of Source src hash (SHz src hash (MI 39070080 total 19076/063/32 19077/064/32 Model (ATCSOME Highlights: S8605120 sectors comparision of Sectors comparision of Sectors and Sectors differ Bytes differ Diffs range Source (3907 Zero fill: Src Byte fill: Other not fill Zero fill range State fill range of Sectors	:34:29 2006			
Source	Source Setup: src hash (SHz src hash (M) 39070080 tota 19076/063/32 19077/064/32 Model (ATCSO Log Destination s 58605120 sect Comparision of Sectors comparised sectors differ Bytes differ Diffs range Source (3907) Zero fill: Src Byte fill: Other no fill: Zero fill rang Src fill rang Other fill: Other not fill other fill: Other not fill other fill: Other not fill as fill rang Other not fill Osource read Acquisition A78EDB5E90298 Results: Assertion & AM-03 Execu AO-12 A clone AO-14 An un AO-17 Exces				
Setup: src hash (MD5): < 90311DDF672B8CBA0869A46F4A455A7E > 39070080 total sectors (20003880960 bytes) 19076/063/32 (max cyl/hd values) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Destination setup 58605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors atch: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (33): 19535040 Other fill: 0 Other no fill: 0 Other no fill: 0 Cero fill: 0 Other fill range: Src fill range: Src fill range: 39070080-58605119 Other fill range: 0 Source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E9029BD0CDF199B4B62119F81208A252A Results: Assertion & Expected Result	Setup: src hash (M) 39070080 total 19076/063/32 19077/064/32 Model (ATCSO Destination of Sectors companies of Sectors atcled Sectors differ Bytes differ Diffs ranger Source (3907) Zero fill: Src Byte fill: Other no fill: Zero fill ranger Source fill ranger Sectors fill ranger Sectors fill ranger Sectors Sectors Matcle Sectors differ Bytes differ Diffs ranger Source (3907) Zero fill: Src Byte fill: Other not fill: Other not fill ranger Sectors Sectors Matcle Sectors Matcle Sectors differ Bytes differ Diffs ranger Source (3907) Zero fill: Src Byte fill: Other not fill: Other not fill ranger Sectors Macquisition A78EDB5E9029 Results: Assertion & AM-03 Execut A0-12 A cloid A0-13 Cloid A0-14 An und A0-17 Exces		19F81208A252A >		
39070080 total sectors (20003880960 bytes) 19076/063/32 (max cyl/hd values) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL) Log Highlights: Destination setup 58605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors atch: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected 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	39070080 total 19076/063/32 19077/064/32 Model (ATCSOME Model) Log				
19076/063/32 (max cyl/hd values) 19077/064/32 (number of cyl/hd) Model (ATCS04-0) serial # (CSH206D9DSEL)	Interpretation of the property	•			
Log Highlights: Destination setup 58605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Zero fill: 0 Zero fill range: Src fill range: Src fill range: Src fill range: Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected Result	Log Highlights: Destination sectors comparison of Sectors and Sectors differ Diffs range Source (3907) Zero fill: Src Byte fill: Other fill: Other no fill: Zero fill range Strong fill range Strong fill: As grange Strong fill: Src Byte fill: Other fill: Other no fill: Other no fill: Zero fill range Strong fill range				
Log Highlights: Destination setup 58605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Biffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (24): 0 Dst Byte fill: 0 Cther no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 39070080-58605119 Other fill range: 0 Other fill range: 0 Other fill range: 0 Source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298DOCDF199B4B62119F81208A252A Results: Assertion & Expected Result	Log Highlights: Destination of Sectors comparison of Sectors comparison of Sectors differ Bytes differ Diffs range Source (3907) Zero fill: Src Byte fill: Other fill: Other no fill: Zero fill rang Src fill rang Src fill rang Other not fill of Source read Acquisition In A78EDB5E90296 Results: Assertion & AM-03 Execu AO-12 A clock AO-13 Clone AO-14 An un AO-17 Exces				
Log Highlights: Destination setup 58605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Other no fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other inl range: Other of fille range: Osource read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected 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	Log Highlights: Destination of 58605120 sectors comparison of Sectors comparison of Sectors differ Sectors differ Bytes differ Diffs range Source (3907 Zero fill: Src Byte fill: Other fill: Other fill: Other no fill: Zero fill range Source fill range Strange Source (3907 Zero fill: Src Byte fill: Other fill: Other not fill: Other not fill: Zero fill range Scotill range Scotill range Strange Strange Source fill: Other not fill	• • • • • • • • • • • • • • • • • • • •	(6D9DSEL)		
Highlights: S8605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Other in of fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other not filled range: 0 Other fill range: 0 Other	Comparision of Sectors comparision of Sectors comparision of Sectors match Sectors differ Bytes differ Diffs range Source (3907) Zero fill: Src Byte fill: Other fill: Other fill: Other no fill: Zero fill range Still range	o , Berrar II (epile	, 0232022,		
Highlights: S8605120 sectors wiped with 33 Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Other in of fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other not filled range: 0 Other fill range: 0 Other	Comparision of Sectors comparision of Sectors comparision of Sectors match Sectors differ Bytes differ Diffs range Source (3907) Zero fill: Src Byte fill: Other fill: Other fill: Other no fill: Zero fill range Still range	etup			
Comparision of original to clone Drive Sectors compared: 39070080 Sectors match: 39070080 Sectors differ: 0 Bytes differ: 0 Diffs range Source (39070080) has 19535040 fewer sectors than destination (58605120) Zero fill: 0 Src Byte fill (24): 0 Dst Byte fill (33): 19535040 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 39070080-58605119 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected Result	Comparision of Sectors comparision of Sectors comparision of Sectors match Sectors differ Bytes differ Diffs range Source (3907) Zero fill: Src Byte fill: Other fill: Other no fill: Zero fill range Sill range Strong fill range other fill range other fill range of the results: Results: Assertion & Acquisition A78EDB5E90298				
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Dst Byte fill (33): 19535040 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 39070080-58605119 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected 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	Dst Byte fil: Other fill: Other no fil: Zero fill rang Src fill rang Dst fill rang Other fill rang Other fill rang Other not fil O source read Acquisition of A78EDB5E90299 Results: Assertion & AM-03 Execu AO-12 A cloid AO-13 Clone AO-14 An und AO-17 Exces				
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O source read errors, O destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected Result AM-03 Execution environment is XE. A0-12 A clone is created from an image file. as expected A0-13 Clone created using interface AI. as expected	Results: Acquisition 1 A78EDB5E90298 Results: Assertion & AM-03 Execu AO-12 A clo AO-13 Clone AO-14 An un AO-17 Exces	Other not filled range: 0 source read errors, 0 destination read errors Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E			
Acquisition hash: 90311DDF672B8CBA0869A46F4A455A7E A78EDB5E90298D0CDF199B4B62119F81208A252A Results: Assertion & Expected Result AM-03 Execution environment is XE. as expected A0-12 A clone is created from an image file. as expected A0-13 Clone created using interface AI. as expected	Results: Acquisition 1 A78EDB5E90298 Assertion & AM-03 Execu AO-12 A clore AO-13 Clone AO-14 An un AO-17 Exces				
Results: Assertion & Expected Result AM-03 Execution environment is XE. A0-12 A clone is created from an image file. as expected A0-13 Clone created using interface AI. as expected	Results: Assertion & AM-03 Execu AO-12 A close AO-13 Clone AO-14 An un AO-17 Exces				
Results: Assertion & Expected Result AM-03 Execution environment is XE. A0-12 A clone is created from an image file. as expected A0-13 Clone created using interface AI. as expected	Results: Assertion & AM-03 Execu AO-12 A close AO-13 Clone AO-14 An un AO-17 Exces				
Assertion & Expected 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	Assertion & AM-03 Execu AO-12 A clo AO-13 Clone AO-14 An un AO-17 Exces				
Assertion & Expected 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	Assertion & AM-03 Execu AO-12 A clo AO-13 Clone AO-14 An un AO-17 Exces				
Assertion & Expected 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	Assertion & AM-03 Execu AO-12 A clo AO-13 Clone AO-14 An un AO-17 Exces				
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	AM-03 Execu AO-12 A clo AO-13 Clone AO-14 An un AO-17 Exces	Expected Result	Actual Result		
AO-12 A clone is created from an image file. as expected AO-13 Clone created using interface AI. as expected	AO-12 A clos AO-13 Clone AO-14 An un AO-17 Exces				
AO-13 Clone created using interface AI. as expected	AO-13 Clone AO-14 An un AO-17 Exces				
	AO-14 An un AO-17 Exces				
AO-14 An unaligned clone is created.	AO-17 Exces		 		
AO-17 Excess sectors are unchanged. as expected as expected					
	AU-23 LOgge				
AO-23 Logged information is correct. as expected		INIOIMACION IS COLLECT.	as expected		
Analysis: Expected results achieved	Applyaia: Barretta	lta achierred			
	Analysis: Expected resu	its admieved			

5.2.54 DA-14-X2

Test Case DA-14-X2 DCCIDD Version 2.0				
Case DA-	DA-14 Create an unaligned clone from an image file.			
Summary:	DA-17 Creace an unarryneu crone from an image fire.			
Assertions:	AM-03 The tool executes in execution environment XE.			
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 i accurately written to the same disk address on the clone that the sector			
	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:	AndWife			
Test Date:	Sun Dec 24 14:05:35 2006			
Drives:	src(43) dst (90) other (4D-FU2)			
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >			
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >			
	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 05 extended			
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16			
	6 x 002136645 004192965 1023/000/01 1023/254/63			
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other			
	8 x 006329610 008401995 1023/000/01 1023/254/63			
	9 S 000000063 008401932 1023/001/01 1023/254/63			
	10 x 014731605 010490445 1023/000/01 1023/254/63 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			
	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			
	Partition Hashes			
	43F12 md5sum 16418304 CBA0C9984F51778E89DEF0C6BED06864			
	43F16 md5sum 1077479424 37E81FFB31C3CB38AA48B2237500908E			
	43F32 md5sum 4301789184 2C4D8D450E5AD28329F616D87114CCFE			
	43F32x md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906			
	43swap md5sum 2154991104 4B602964A30FE20D1B22B046A7375A7C			
	43x2 md5sum 5371075584 C7A84DE9ACBCB05463604CE8823D0874			
	43NTFS md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E			
	Excess destination partition sectors hash:			
	CMD: ./machash.csh DA-14-X2 Max brl /dev/sdb5 90 -before -winsize			
	5371075584 -new_log			
	SHA1 0 - 5371075583 = 87D31CB126201B6A2DC211A2E9B80563437A5583			
	SHA1 5371075584 - 6201828863 = 00D22C5C7381D110DCD895E29016943DFE5A6E18			
Log	Destination setup			
Highlights:	58633344 sectors wiped with 90			

```
Test Case DA-14-X2 DCCIDD Version 2.0
              Comparision of original to clone Partition
              Sectors compared: 10490382
              Sectors match:
                                    10490382
              Sectors differ:
              Bytes differ:
              Diffs range:
              Source (10490382) has 1622565 fewer sectors than destination (12112947)
              Zero fill:
                             50984
              Src Byte fill (43): 0
              Dst Byte fill (90): 1566531
              Other fill:
                             100
              Other no fill: 4950
               Zero fill range: 10502147, 10502195, 10502197, 10502200-10502711,
              10518531, 10518579, 10518581, 10518584-10519095, 10534915,
              10534963, 10534965, 10534968-10535479, 10551299, 10551347,
               10551349, 10551352-10551863, 10567683, 10567731, 10567733,
              10567736-10568247. . . + 48409 more
              Src fill range:
              Dst fill range: 10490382-10502145, 10502712-10518529,
               10519096-10534913, 10535480-10551297, 10551864-10567681,
              10568248-10584065, 10584632-10600449, 10601016-10616833,
              10617400-10633217, 10633784-10649601, 10650168-10665985,
               10666552 - 10682369\,,\ 10682936 - 10698753\,,\ 10699320 - 10715137\,,
              10715704 - 10731521 \,, \ 10732088 - 10747905 \,, \ 10748472 - 10764289 \,,
              10764856-10780673, 10781240-10797057, 10797624-10813441. . . + 1254225 more
              Other fill range: 10502199, 10518583, 10534967, 10551351,
               10567735, 10584119, 10600503, 10616887, 10633271, 10649655,
              10666039, 10682423, 10698807, 10715191, 10731575, 10747959,
              10764343, 10780727, 10797111, 10813495. . . + 80 more
              Other not filled range: 10502146, 10502148-10502194,
               10502196, 10502198, 10518530, 10518532-10518578, 10518580,
              10518582, 10534914, 10534916-10534962, 10534964, 10534966,
              10551298, 10551300-10551346, 10551348, 10551350, 10567682,
               10567684-10567730, 10567732, 10567734. . . + 4700 more
              run start Sun Dec 24 15:11:45 2006
              run finish Sun Dec 24 15:30:29 2006
               elapsed time 0:18:44
              Normal exit
              Acquisition hash: C7A84DE9ACBCB05463604CE8823D0874
              61F0030EDB667BA43A26A24A9A25281817537D2261D687F7EDCB32B5E60E39E7
              Excess destination partition sectors hash:
              CMD: ./machash.csh DA-14-X2 Max brl /dev/sdb5 90 -after -winsize 5371075584
               -new_log
               SHA1 0 - 5371075583 = 283BCC32DE892C12C37698AF7E38703619E57F57
               SHA1 5371075584 - 6201828863 = 00D22C5C7381D110DCD895E29016943DFE5A6E18
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-17

Case Summary:	DA-17 Create a truncated clone from an image f.	ile		
Summary:	DA-17 Create a truncated clone from an image file.			
	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 info			
	accurately recorded in the log file.	ormadion, one informadion is		
	doodladdly loodlada in one log lile.			
Tester Name:	brl			
Test Host:	Paladin			
Test Date:	Tue Dec 5 16:21:01 2006			
Drives:	src(41) dst (95) other (4D-FU2)			
Source	src hash (SHA256): <			
Setup:	FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF5	8A3A3FFB13203F1B1D >		
	<pre>src hash (SHA1): < 15CAA1A307271160D8372668BF8</pre>	A03FC45A51CC9 >		
	<pre>src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB</pre>	5607C >		
	78125000 total sectors (4000000000 bytes)			
	65534/015/63 (max cyl/hd values)			
	65535/016/63 (number of cyl/hd)			
	<pre>IDE disk: Model (WDC WD400BB-75JHC0) serial # N Start LBA Length</pre>			
	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 0000/000/0			
	4 P 00000000 00000000 0000/000/00 0000/000/			
	1 078107967 sectors 39991279104 bytes			
	Destination setup			
Highlights:	58633344 sectors wiped with 95			
	Message displayed by tool			
	58633216 blocks (28629 Mb) written.			
	dccidd: writing `/dev/hdb': No space left on do 58633345+0 records in	evice		
	58633344+0 records out			
	50055544+0 lecolus out			
	Comparision of original to clone Drive			
	Comparision of original to clone Drive Sectors compared: 58633344			
	Sectors match: 58633344			
	Sectors match: 58633344 Sectors differ: 0			
	Bytes differ: 0			
	Diffs range			
	Source (78125000) has 19491656 more sectors than destination (58633344)			
	0 source read errors, 0 destination read errors			
	Dir/dccidd/da-17 No blockhash log			
Daniel Land				
Results:	Aggordian C Euroghad Barril	Agtual Bagult		
	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-19 Truncated clone is created.	as expected		
	AO-20 User notified that clone is truncated.	as expected		
	AO-23 Logged information is correct.	as expected		
1				
Analysis:	Expected results achieved			

About the National Institute of Justice

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

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

Strategic Goals

NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

- 1. Partner with State and local practitioners and policymakers to identify social science research and technology needs.
- 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:

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