

Paladin 2.06

Test Results for Digital Acquisition Tool

March 18, 2013





Test Results for Digital Data Acquisition Tool: Paladin 2.06

Contents

	roduction	
H	ow to Read This Report	1
1	Results Summary	
2	Test Case Selection	
3	Results by Test Assertion	
	3.1 Acquisition of Faulty Sectors	6
4	Testing Environment	6
	4.1 Execution Environment	6
	4.2 Test Computers	
	4.3 Support Software	8
	4.4 Test Drive Creation	8
	4.4.1 Source Drive	8
	4.4.2 Media Drive	8
	4.4.3 Destination Drive	8
	4.5 Test Drive Analysis	8
	4.6 Note on Test Drives	
5	Test Results	9
	5.1 Test Results Report Key	9
	5.2 Test Details	10
	5.2.1 DA-01-ATA28	10
	5.2.2 DA-01-ATA48	12
	5.2.3 DA-01-FW	14
	5.2.4 DA-01-SATA28	16
	5.2.5 DA-01-SATA48	18
	5.2.6 DA-01-SCSI	20
	5.2.7 DA-01-USB	22
	5.2.8 DA-02-CF	24
	5.2.9 DA-02-THUMB	26
	5.2.10 DA-04	28
	5.2.11 DA-06-ATA28	30
	5.2.12 DA-06-ATA48	32
	5.2.13 DA-06-FW	34
	5.2.14 DA-06-SATA28	36
	5.2.15 DA-06-SATA48	38
	5.2.16 DA-06-SCSI	40
	5.2.17 DA-06-USB	42
	5.2.18 DA-07-CF	44
	5.2.19 DA-07-EXFAT	46
	5.2.20 DA-07-EXT2	48
	5.2.21 DA-07-EXT3	50
	5.2.22 DA-07-EXT4	52
	5.2.23 DA-07-F12	54
	5.2.24 DA-07-F16	56

5.2.25	DA-07-F32	58
5.2.26	DA-07-F32X	60
5.2.27	DA-07-NTFS	62
5.2.28	DA-07-SWAP	64
5.2.29	DA-07-THUMB	66
5.2.30	DA-09	68
5.2.31	DA-12	71
5.2.32	DA-14-ATA28	73
5.2.33	DA-14-ATA48	75
5.2.34	DA-14-CF	77
5.2.35	DA-14-FW	
5.2.36	DA-14-SATA28	81
5.2.37	DA-14-SATA48	82
5.2.38	DA-14-SCSI	
5.2.39	DA-14-THUMB	84
5.2.40	DA-14-USB	85
5.2.41	DA-17	87
5.2.42	DA-24	88
5.2.43	DA-25	90

Introduction

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

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. The CFTT approach to testing computer forensics 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 Paladin 2.06 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 tools can be found on NIJ's computer forensics tool testing Web page, http://www.ojp.usdoj.gov/nij/topics/technology/electronic-crime/cftt.htm.

How to Read This Report

This report is divided into five sections. The first section is a summary of the results from the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. The remaining sections of the report describe how the tests were conducted, discuss any anomalies that were encountered and provide documentation of test case run details that support the report summary. Section 2 gives justification for the selection of test cases from the set of possible cases defined in the test plan for Digital Data Acquisition tools. The test cases are selected, in general, based on features offered by the tool. Section 3 describes in more depth any anomalies summarized in the first section. Section 4 lists hardware and software used to run the test cases with links to additional information about the items used. Section 5 contains a description of each test case run. The description of each test run lists all test assertions used in the test case, the expected result and the actual result. Please refer to the vendor documentation for guidance on using the tool.

Test Results for Digital Data Acquisition Tool

Tool Tested: Paladin Software Version: 2.06

Runtime Environment Paladin 2.06 CD

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Address: P.O. Box 252

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1 Results Summary

Paladin 2.06 is a modified Live Linux distribution designed to simplify the process of creating forensic images in a forensically sound manner. Paladin 2.06 is designed to image, clone and restore data from hard drives and other secondary storage. Except for the following anomaly, the tool acquired the test media completely and accurately.

- Readable sectors that were near faulty sectors on a source drive were not acquired. The tool wrote zeros to the target drive in place of these sectors (DA-09).
- The data written to a target drive became misaligned with the data on the source after faulty sectors were encountered on the source drive (DA-09).

Refer to section 3.1 for more details.

2 Test Case Selection

Test cases used to test disk imaging tools are defined in *Digital Data Acquisition Tool Assertions and Test Plan Version 1.0*. To test a tool, test cases are selected from the *Test Plan* document based on the features offered by the tool. Not all test cases or test assertions are appropriate for all tools. There is a core set of base cases (e.g., DA-06 and DA-07) that are executed for every tool tested. Tool features guide the selection of additional test cases. If a given tool implements a feature then the test cases linked to that feature are run. Table 1 lists the testable features of Paladin 2.06 and the linked test cases selected for execution. Table 2 lists the features not available in Paladin 2.06 and the test cases not executed.

Table 1. Selected Test Cases

Supported Optional Feature	Cases selected for execution
Create a clone during acquisition	01
Create an unaligned clone from a digital source	02

Create a truncated clone from a physical device	04
Base Cases	06 & 07
Read error during acquisition	09
Insufficient space for image file	12
Create a clone from an image file	14 & 17
Detect a corrupted (or changed) image file	24 & 25

Table 2. Omitted Test Cases

Unsupported Optional Feature	Cases omitted (not executed)
Create cylinder aligned clones	03, 15, 21 & 23
Device I/O error generator available	05, 11 & 18
Create an image of a drive with hidden sectors	08
Create an image file in more than one format	10
Destination Device Switching	13
Create a clone from a subset of an image file	16
Fill excess sectors on a clone acquisition	19
Fill excess sectors on a clone device	20, 21, 22 & 23
Convert an image file from one format to	26
another	

Some test cases have different forms to accommodate parameters within test assertions. These variations cover the acquisition interface to the source media and the type of digital object acquired. In addition, image file format and image file segment size were varied between test cases.

The following source interfaces were tested: USB, ATA28, ATA48, FW, SATA28, SATA48 and SCSI. These are noted as variations on test cases DA-01 and DA-06.

The following digital source types were tested: partitions (FAT12, FAT16, FAT32, FAT32X, EXFAT, NTFS, EXT2, EXT3, EXT4, SWAP), compact flash (CF) and thumb drive (Thumb). There are two FAT 32 variations testing acquisition of both FAT 32 partition codes 0x0B (FAT32) and 0x0C (FAT32X). These digital source types are noted as variations on test case DA–07.

The following image file types are supported by the tool and were varied in testing: Expert Witness (.E01), raw (.dd) and Apple Disk Image (.dmg).

3 Results by Test Assertion

A test assertion is a verifiable statement about a single condition after an action is performed by the tool under test. A test case usually checks a group of assertions after the action of a single execution of the tool under test. Test assertions are defined and linked to test cases in *Digital Data Acquisition Tool Assertions and Test Plan Version 1.0*.

Table 3 summarizes the test results for all the test cases by assertion. The column labeled **Assertions Tested** gives the text of each assertion. The column labeled **Tests** gives the

number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where any observed anomalies are discussed.

Table 3. Assertions Tested

Assertions Tested	Tests	Anomaly
AM-01 The tool uses access interface SRC-AI to access	31	
the digital source.		
AM-02 The tool acquires digital source DS.	31	
AM-03 The tool executes in execution environment XE.	43	
AM-04 If clone creation is specified, the tool	10	
creates a clone of the digital source.		
AM-05 If image file creation is specified, the tool	21	
creates an image file on file system type FS.		
AM-06 All visible sectors are acquired from the	30	3.1
digital source.		0.1
AM-08 All sectors acquired from the digital source	30	3.1
are acquired accurately.	1	
AM-09 If unresolved errors occur while reading from	1	
the selected digital source, the tool notifies the		
user of the error type and location within the digital source.		
AM-10 If unresolved errors occur while reading from	1	
the selected digital source, the tool uses a benign	1	
fill in the destination object in place of the		
inaccessible data.		
AO-01 If the tool creates an image file, the data	20	
represented by the image file is the same as the data	20	
acquired by the tool.		
AO-04 If the tool is creating an image file and there	1	
is insufficient space on the image destination device		
to contain the image file, the tool shall notify the		
user.		
AO-05 If the tool creates a multi-file image of a	20	
requested size then all the individual files shall be		
no larger than the requested size.		
AO-06 If the tool performs an image file integrity	1	
check on an image file that has not been changed		
since the file was created, the tool shall notify the		
user that the image file has not been changed.		
AO-07 If the tool performs an image file integrity	1	
check on an image file that has been changed since		
the file was created, the tool shall notify the user		
that the image file has been changed.	1	
AO-08 If the tool performs an image file integrity	1	
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-11 If requested, a clone is created during an	10	
acquisition of a digital source.	1 10	
AO-12 If requested, a clone is created from an image	10	
file.		
AO-13 A clone is created using access interface DST-	20	
AI to write to the clone device.		
AO-14 If an unaligned clone is created, each sector	19	

Assertions Tested	Tests	Anomaly
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	12	
destination device are not modified.		
AO-19 If there is insufficient space to create a	2	
complete clone, a truncated clone is created using		
all available sectors of the clone device.		
AO-20 If a truncated clone is created, the tool	2	
notifies the user.		
AO-23 If the tool logs any log significant	43	
information, the information is accurately recorded		
in the log file.		
AO-24 If the tool executes in a forensically safe	31	
execution environment, the digital source is		
unchanged by the acquisition process.		

Two test assertions only apply in special circumstances. The assertion AO-22 is checked only for tools that create block hashes. 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 4 lists the assertions that were not tested, usually due to the tool not supporting some optional feature, e.g., creation of cylinderaligned clones.

Table 4. Assertions not Tested

AM-07 All hidden sectors are acquired from the digital source.			
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-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			

Assertions not Tested

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

Assertions	not	Tested
------------	-----	--------

clone.

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

 $\mbox{AO-22}$ If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.

The following section provides detailed information for the anomalies from Table 3.

3.1 Acquisition of Faulty Sectors

In test case DA-09, a source drive with faulty sectors was cloned to a target drive. Readable sectors that were near faulty sectors on the source drive were not acquired. The tool wrote zeros to the target drive in place of these sectors.

The data cloned to the target drive became misaligned after faulty sectors were encountered on the source drive. For example, sector 6,160,448 on the target drive contained the contents of sector 6,160,392 from the source, sector 6,160,449 on the target contained the contents of source sector 6,160,393, and so on. The size of the offset or misalignment between the data on the source and target drives grew as more faulty sectors were encountered on the source.

4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the test execution environment, computers available for testing, using the support software, and notes on other test hardware.

4.1 Execution Environment

Tests were run from the Paladin 2.06 CD.

4.2 Test Computers

Seven computers were used to run the tool: **Darthmaul**, **Deathstar**, **Frank**, **McGarrett**, **Samspade**, **Scimitar** and **Wofat**.

Darthmaul, **DeathStar** and **Scimitar** have the following configuration:

TCP Custom built

ULT U12-40670 ULTRA PRODUCTS FULL TOWER ATX 2
ASU P8Z68VPRO/G ASUS P8Z68-V PRO/GEN3 SOCKET 1155 MB
INT CORE i5 2500 INTEL CORE I5 2500 3.3GHZ CPU
CRU 4GBD3-1333 CRUCIAL 4GB DDR3-1333 8 GIG RAM
EVGA 01GP31526K EVGA GT520 1GB PCI-E
Dual DVI display card
CRU 8400-5000-0 CRU DATAPORT V FRAME SATA
TCP SO CRU DATAPORT V IDE,
SAM SH-S222AB SAMSUNG 22X SATA DVD RW

SII NN830112 SIIG 3 PORT FIREWIRE 800 PCI STA PCIIDE2 STARTECH 2 CHANNEL IDE CONTROLLER PCI IOC SY-PEX40040 I/O CREST 1 + 1 PORT SATA/ESATA III CARD CM EXTREME600W COOLERMASTER EXTREME 600W PS

Frank has the following configuration:

Intel Desktop Motherboard D865GB/D865PERC (with ATA-6 IDE on board controller) BIOS Version BF86510A.86A.0053.P13
Adaptec SCSI BIOS V3.10.0
Intel® PentiumTM 4 CPU 3.4Ghz
2577972KB RAM
SONY DVD RW DRU-530A, ATAPI CD/DVD-ROM drive
1.44 MB floppy drive
Two slots for removable IDE hard disk drives
Two slots for removable SATA hard disk drives
Two slots for removable SCSI hard disk drives

WoFat and **McGarrett** have the following configuration:

Intel® Desktop Motherboard DX48BT2
BIOS Version BTX3810J.86A.1554.2008.0501.1628
Intel® CoreTM 2 Extreme QX9770 CPU 3.20Ghz
4GB DDR3 RAM
Diamond RadeonTM HD3450 PCI-E graphics card
SIIG® 3-Port IEEE1395 PCI-E card
LG Blu-Ray Super multi drive BD/HD-DVD/DVD/CD
Three slots for removable SATA hard disk drives
Two slots for removable IDE hard disk drives

SamSpade has the following configuration:

Intel® D865PERL Motherboard
BE7X 1.08.00.048 BIOS
Intel® PentiumTM 4 CPU 2.4GHz
FE7X 1.05.00.063 Firmware
2048 MB RAM
ABIT R9200SE-T APG graphics adapter
3ware ATA RAID Controller: Escalade 7506-4LP
Lite-On DVDRW SOHW-1234 Drive
1.44 MB Floppy Drive
Four USB ports
Two slots for removable IDE drives
One slot for removable SATA drive

4.3 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.

4.4 Test Drive Creation

There are three ways that a hard drive may be used in a tool test case: as a source drive that is imaged by the tool, as a media drive that contains image files created by the tool under test, or as a destination drive on which the tool under test creates a clone of the source drive. In addition to the operating system drive formatting tools, some tools (**diskwipe** and **diskhash**) from the FS-TST package are used to setup test drives.

4.4.1 Source Drive

The setup of most source drives follows the same general procedure, but there are several steps that may be varied depending on the needs of the test case.

- 1. The drive is filled with known data by the **diskwipe** program from FS-TST. The **diskwipe** program writes the sector address to each sector in both C/H/S and LBA format. The remainder of the sector bytes is set to a constant fill value unique for each drive. The fill value is noted in the **diskwipe** tool log file.
- 2. The drive may be formatted with partitions as required for the test case.
- 3. An operating system may optionally be installed.
- 4. A set of reference hashes is created by the FS-TST **diskhash** tool. These include both SHA1 and MD5 hashes. In addition to full drive hashes, hashes of each partition may also be computed.
- 5. If the drive is intended for hidden area tests (DA-08), an HPA, a DCO or both may be created. The **diskhash** tool is then used to calculate reference hashes of just the visible sectors of the drive.

The source drives for DA-09 are created such that there is a consistent set of faulty sectors on the drive. Each of these source drives is initialized with **diskwipe** and then their faulty sectors are activated. For each of these source drives, a duplicate drive, with no faulty sectors, serves as a reference drive for comparison.

4.4.2 Media Drive

To setup a media drive, the drive is formatted with one of the supported file systems. A media drive may be used in several test cases.

4.4.3 Destination Drive

To setup a destination drive, the drive is filled with known data by the **diskwipe** program from FS-TST. Partitions may be created if the test case involves restoring from the image of a logical acquire.

4.5 Test Drive Analysis

For test cases that create a clone of a physical device, e.g., DA-01, DA-04, etc., the destination drive is compared to the source drive with the **diskcmp** program from the FS-TST package; for test cases that create a clone of a logical device, i.e., a partition, e.g.,

DA-02, DA-20, etc., the destination partition is compared to the source partition with the **partcmp** program. For a destination created from an image file, e.g., DA-14, the destination is compared, using either **diskcmp** (for physical device clones) or **partcmp** (for partition clones), to the source that was acquired to create the image file. Both **diskcmp** and **partcmp** note differences between the source and destination. If the destination is larger than the source it is scanned and the excess destination sectors are categorized as either, undisturbed (still containing the fill pattern written by **diskwipe**), zero filled or changed to something else.

For test case DA-09, imaging a drive with known faulty sectors, the program **anabad** is used to compare the faulty sector reference drive to a cloned version of the faulty sector drive.

For test cases such as DA-06 and DA-07 any acquisition hash computed by the tool under test is compared to the reference hash of the source to check that the source is completely and accurately acquired.

4.6 Note on Test Drives

The testing uses several test drives from a variety of vendors. The drives are identified by an external label that consists of a two digit hexadecimal value and an optional tag, e.g., 25-SATA. The combination of hex value and tag serves as a unique identifier for each drive. The two digit hex value is used by the FS-TST **diskwipe** program as a sector fill value. The FS-TST compare tools, **diskcmp** and **partcmp**, count sectors that are filled with the source and destination fill values on a destination that is larger than the original source.

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 Highlights** box of the test report.

5.1 Test Results Report Key

The following table presents an explanation of each section of the test details in section 5.2. The Tester Name, Test Host, Test Date, Drives, Source Setup and Log Highlights sections for each test case are populated by excerpts taken from the log files produced by the tool under test and the FS-TST tools that were executed in support of test case setup and analysis.

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.

Heading	Description
Tester Name:	Name or initials of person executing test procedure.
Test Host:	Host computer executing the test.
Test Date:	Time and date that test was started.
Drives:	Source drive (the drive acquired), destination drive (if a
	clone is created) and media drive (to contain a created
	image).
Source Setup:	Layout of partitions on the source drive and the expected
	hash of the drive.
Log Highlights:	Information extracted from various log files to illustrate
	conformance or non-conformance to the test assertions.
Results:	Expected and actual results for each assertion tested.
Analysis:	Whether or not the expected results were achieved.

5.2 Test Details

The test results are presented in this section.

5.2.1 DA-01-ATA28

Test Case DA	-01-ATA28 Sumuri Paladin 2.0.6	
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.	
ABBCI CIOIIB.	AM-02 The tool acquires digital source DS.	
AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.		
	AM-04 If clone creation is specified, the tool creates a clone of the	
	digital source.	
	AM-06 All visible sectors are acquired from the digital source.	
	AM-08 All sectors acquired from the digital source are acquired accurately.	
	AO-11 If requested, a clone is created during an acquisition of a digital	
	source.	
	AO-13 A clone is created using access interface DST-AI to write to the clone	
	device.	
	AO-14 If an unaligned clone is created, each sector written to the clone is	
	accurately written to the same disk address on the clone that the sector	
	occupied on the digital source.	
	AO-17 If requested, any excess sectors on a clone destination device are not	
	modified.	
	AO-22 If requested, the tool calculates block hashes for a specified block	
	size during an acquisition for each block acquired from the digital source.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment, the	
	digital source is unchanged by the acquisition process.	
Tester	irl	
Name:		
Test Host:	DeathStar	
Test Date:	Tue Aug 14 10:52:26 2012	
Drives:	src(41) dst (24-lap) other (none)	
Source	src hash (SHA256): <	
Setup:	FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3FFB13203F1B1D >	
	src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >	
	src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C >	
	78125000 total sectors (4000000000 bytes)	
	65534/015/63 (max cyl/hd values)	
	65535/016/63 (number of cyl/hd)	
	IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	

```
Test Case DA-01-ATA28 Sumuri Paladin 2.0.6
              1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS
              2 P 000000000 000000000 0000/000/00 0000/000/00
                                                                   00 empty entry
              3 P 00000000 00000000 0000/000/00 0000/000/00
                                                                   00 empty entry
              4 P 00000000 00000000 0000/000/00 0000/000/00
                                                                   00 empty entry
             1 078107967 sectors 39991279104 bytes
Loa
             ===== Destination drive setup ======
Highlights:
             78140160 sectors wiped with 24
             ===== Comparison of original to clone drive ======
             Sectors compared: 78125000
             Sectors match: 78125000
             Sectors differ:
             Bytes differ:
             Diffs range
             Source (78125000) has 15160 fewer sectors than destination (78140160)
             Zero fill:
             Src Byte fill (41):
                                        0
             Dst Byte fill (24):
                                    15160
             Other fill:
                                        n
             Other no fill:
             Zero fill range:
             Src fill range:
             Dst fill range: 78125000-78140159
             Other fill range:
             Other not filled range:
             O source read errors, O destination read errors
             OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC
             2011 i686 i686 i386 GNU/Linux
             ====== Excerpt from Tool log ======
             Source Drive:
                     Model Number:
                                        WDC WD400BB-75JHC0
                     Serial Number:
                                        WD-WMAMC4658355
             ====== Hashes:
             Hash values calculated during initial creation:
             Total (md5): 0a6a8ef78bdc14e2026710d8ccb5607c
             Total (sha1): 15caa1a307271160d8372668bf8a03fc45a51cc9
             ====== End of Excerpt from Tool log =======
             ===== Source drive rehash ======
             Rehash (SHA1) of source: 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
                                                             as expected
              AM-04 A clone is created.
               AM-06 All visible sectors acquired.
                                                             as expected
              AM-08 All sectors accurately acquired.
                                                             as expected
                                                             as expected
              AO-11 A clone is created during acquisition.
              AO-13 Clone created using interface AI.
                                                             as expected
              AO-14 An unaligned clone is created.
                                                             as expected
              AO-17 Excess sectors are unchanged.
                                                             as expected
              AO-22 Tool calculates hashes by block.
                                                             option not available
              AO-23 Logged information is correct
                                                             as expected
              AO-24 Source is unchanged by acquisition.
                                                             as expected
Analysis:
             Expected results achieved
```

5.2.2 DA-01-ATA48

Test Case DA-	01-ATA48 Sumuri Paladin 2.0.6	
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 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:	jrl	
Test Host:	WoFat	
Test Date:	Thu Aug 16 12:31:48 2012	
Drives:	src(4c) dst (47-sata) other (none)	
Source	src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF >	
Setup:	<pre>src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes)</pre>	
	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		
	1 P 000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS	
	2 P 000000000 000000000 0000/000/00 0000/000/00 00	
	3 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 390700737 sectors 200038777344 bytes	
	•	
Log	===== Destination drive setup =====	
Highlights:	488397168 sectors wiped with 47	
	Companison of original to alone drive	
	===== Comparison of original to clone drive ===== Sectors compared: 390721968	
	Sectors match: 390721968	
	Sectors differ: 0	
	Bytes differ: 0	
İ	Diffs range	
	Source (390721968) has 97675200 fewer sectors than destination (488397168)	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill:	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 0	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 0 Zero fill range:	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range:	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: Src Byte fill (4C): Obst Byte fill (47): 97675200 Other fill: Other no fill: Zero fill range: Src fill range: Src fill range: Other fill range: Other not filled range:	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range:	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: Src Byte fill (4C): Obst Byte fill (47): 97675200 Other fill: Other no fill: Zero fill range: Src fill range: Ost fill range: Other fill range: Other not filled range: O source read errors, 0 destination read errors	
	Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 2ero fill range: Src fill range: Src fill range: Other fill range: Other not filled range:	

Test Case DA-	01-ATA48 Sumuri Paladin 2.0.6		
	====== Excerpt from Tool log ======		
	Source Drive:		
	Model Number: WDC WD2000JB-00KFA0		
	Serial Number: WD-WMAMR1031111		
	======= Hashes:		
	Hash values calculated during initial creation:		
	Total (md5): d10f763b56d4ceba2d1311c61f9fb382		
	Total (sha1): 8ff620d2bedccafe8412edaad56c8554f872efbf		
	Hash values for verification started at 20120816 17:48:09:		
	Total (md5): d10f763b56d4ceba2d1311c61f9fb382		
	Total (sha1): 8ff620d2bedccafe8412edaad56c8554		
	====== End of Excerpt from Tool log =======		
	===== Source drive rehash =====		
	Rehash (SHA1) of source: 8FF620D2BEDCCAFE8412E	DAADE600EE4E072EEDE	
	Remain (Shar) of Source: offozobzbebecareo412E	DAADJOCOJJIFO/ZEFDF	
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-04 A clone is created.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-11 A clone is created during acquisition.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
		option not available as expected	
	AO-22 Tool calculates hashes by block.	-	
	AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected	
	AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected	

5.2.3 DA-01-FW

	-01-FW Sumuri Paladin 2.0.6		
Case Summary:	DA-01 Acquire a physical device using access interface AI to an unaligned clone.		
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.		
	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 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:	jrr		
Test Host:	SamSpade		
Test Date:	Thu Aug 16 09:54:49 2012		
Drives:	src(63-FU2) dst (84-FU2) other (none)		
Source	src hash (SHA256): <		
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F9247A98EF613BB1D > src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B > src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC > 117304992 total sectors (60060155904 bytes) Model (SP0612N) serial # ()		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16 2 X 004192965 113097600 0261/000/01 1023/254/63 OF extended 3 S 000000063 113097537 0261/001/01 1023/254/63 OB Fat32 4 S 000000000 000000000 0000/000/00 0000/000/00 5 P 000000000 000000000 0000/000/00 0000/000/00 6 P 000000000 00000000 0000/000/00 0000/000/00 1 00 empty entry 6 P 000000000 00000000 0000/000/00 0000/000/00 1 00 empty entry 1 004192902 sectors 2146765824 bytes 3 113097537 sectors 57905938944 bytes		
Log Highlights:	===== Destination drive setup ===== 160836480 sectors wiped with 84		
	====== Comparison of original to clone drive ====== Sectors compared: 117304992 Sectors match: 117304992 Sectors differ: 0 Bytes differ: 0 Diffs range Source (117304992) has 43531488 fewer sectors than destination (160836480) Zero fill: 0 Src Byte fill (63): 0 Dst Byte fill (84): 43531488 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 117304992-160836479 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors		

Test Case DA	Test Case DA-01-FW Sumuri Paladin 2.0.6		
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	====== Excerpt from Tool log ======= Source Drive: Source Physical device DMI SAMSUNG SP0612N 60GB (/dev/sdc) ========= Hashes: Hash values calculated during initial creation: Total (md5): ee217bc4fa4f3d1b4021d29b065aa9ec Total (sha1): f7069edcbeac863c88deced82159f22da96be99b ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-04 A clone is created.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-11 A clone is created during acquisition.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.4 DA-01-SATA28

3.2.4 DA-U1-3A1A20			
Test Case DA	-01-SATA28 Sumuri Paladin 2.0.6		
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 clondevice.		
	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 clomodified.	one destination device are not	
	AO-22 If requested, the tool calculates block I size during an acquisition for each block acqui AO-23 If the tool logs any log significant information accurately recorded in the log file.	ired from the digital source.	
	AO-24 If the tool executes in a forensically so digital source is unchanged by the acquisition	•	
Tester Name:	jrl		
Test Host:	McGarrett		
Test Date:	Tue Aug 14 10:29:01 2012		
Drives:	src(01-sata) dst (32-sata) other (none)		
Source	src hash (SHA256): <		
Setup:	1AA01FEAE55F5CD55185D2B1A1359B3F913E7093FEF1D1ADA220CAC456BA40D8 > src hash (SHA1): < 4951236428C36B944E62E8D65862DCBEF05F282C > src hash (MD5): < 0A49B13D91FA9DA87CEEE9D006CB6FD6 >		
	156301488 total sectors (80026361856 bytes) Model (0JD-32HKA0) serial # (WD-WMAJ91448529)		
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 32		
	====== Comparison 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		
	bource read errors, o describeron read error	5	
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	====== Excerpt from Tool log ====== Source Drive:		
	Model Number: WDC WD800JD-32HKA0 Serial Number: WD-WMAJ91448529 ======== Hashes: Hash values calculated during initial creation: Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6 Total (sha1): 4951236428c36b944e62e8d65862dcbef05f282c		
	====== End of Excerpt from Tool log ======= ===== Source drive rehash ====== Rehash (SHA1) of source: 4951236428C36B944E62E8D65862DCBEF05F282C		
Results:		,	
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
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Test Case DA-	-01-SATA28 Sumuri Paladin 2.0.6	
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	·

5.2.5 DA-01-SATA48

Test Case DA-	01-SATA48 Sumuri Paladin 2.0.6		
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:	csr		
Test Host:	DeathStar		
Test Date:	Tue Aug 14 10:37:39 2012		
Drives:	src(0d-sata) dst (47-sata) other (none)		
Source Setup:	<pre>src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 > src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411E40C9 > 488397168 total sectors (250059350016 bytes) 30400/254/63 (max cyl/hd values)</pre>		
	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 4 P 000000000 000000000 0000/000/00 0000/000/00 5 empty entry 1 488375937 sectors 250048479744 bytes		
Log Highlights:	===== Destination drive setup ===== 488397168 sectors wiped with 0d		
	====== Comparison 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		
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	====== Excerpt from Tool log ====== Source Drive: Model Number: WDC WD2500JD-22FYB0 Serial Number: WD-WMAEH2678216 ============== Hashes:		
	Hash values calculated during initial creation: Total (md5): 1fa7c3cbe60eb9e89863ded2411e40c9 Total (shal): baad80e8781e55f2e3ef528ca73bd41d228c1377 ======== End of Excerpt from Tool log ========		
	===== Source drive rehash =====		

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Assertion & Expected Result	Actual Result
AM-01 Source acquired using interface AI.	as expected
AM-02 Source is type DS.	as expected
AM-03 Execution environment is XE.	as expected
AM-04 A clone is created.	as expected
AM-06 All visible sectors acquired.	as expected
AM-08 All sectors accurately acquired.	as expected
AO-11 A clone is created during acquisition.	as expected
AO-13 Clone created using interface AI.	as expected
AO-14 An unaligned clone is created.	as expected
AO-17 Excess sectors are unchanged.	as expected
AO-22 Tool calculates hashes by block.	option not available
AO-23 Logged information is correct.	as expected
AO-24 Source is unchanged by acquisition.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.

5.2.6 DA-01-SCSI

3.2.0 DA-01-3G31			
	01-SCSI Sumuri Paladin 2.0.6		
Case Summary:	DA-01 Acquire a physical device using access interface AI to an unaligned clone.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source.		
	AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.		
	AO-13 A clone is created using access interface DST-AI to write to the clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are not modified.		
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester Name:	jrr		
Test Host:	frank		
Test Date:	Thu Aug 16 10:32:46 2012		
Drives:	<pre>src(E0) dst (05-SATA) other (none)</pre>		
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 >		
Setup:	<pre>src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 ></pre>		
	17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436)		
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 5		
	===== Comparison of original to clone drive ===== Sectors compared: 17938985		
	Sectors match: 17938985		
	Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (17938985) has 138362503 fewer sectors than destination (156301488) Zero fill: 0		
	Src Byte fill (E0): 0		
	Dst Byte fill (05): 138362503 Other fill: 0		
	Other fill: 0 Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 17938985-156301487		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors		
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	====== Excerpt from Tool log ======= Source Drive:		
	/dev/sdg: QUANTUM ATLAS10K2-TY092J DDD6		
	Hash values calculated during initial creation:		
	Total (md5): a97c8f36b7ac9d5233b90ac09284f938		
	Total (shal): 4a6941f1337a8a22b10fc844b4d7fa6158becb82		
	====== End of Excerpt from Tool log =======		
	2 T T T T T T T T T T T T T T T T T T T		

Test Case DA-	Test Case DA-01-SCSI Sumuri Paladin 2.0.6		
	===== Source drive rehash ===== Rehash (SHA1) of source: 4A6941F1337A8A22B10FC	844B4D7FA6158BECB82	
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-04 A clone is created.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-11 A clone is created during acquisition.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.7 DA-01-USB

J.Z.1 DA-01-03D			
Test Case DA	-01-USB Sumuri Paladin 2.0.6		
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:	jrr		
Test Host:	frank		
Test Date:	Tue Aug 14 10:26:58 2012		
Drives:	src(63-FU2) dst (84-FU2) other (none)		
Source	src hash (SHA256): <		
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F9247A98EF613BB1D >		
	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >		
	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC >		
	117304992 total sectors (60060155904 bytes)		
	Model (SP0612N) serial # ()		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16		
	2 X 004192965 113097600 0261/000/01 1023/254/63		
	3 S 000000063 113097537 0261/001/01 1023/254/63		
	4 S 000000000 000000000 0000/000/00 0000/000/00 00		
	5 P 000000000 000000000 0000/000/00 0000/000/00 00		
	6 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 113097537 sectors 57905938944 bytes		
	3 11307/337 Sectors 3/703730744 Bytes		
Log	===== Destination drive setup =====		
Highlights:	160836480 sectors wiped with 84		
	===== Comparison of original to clone drive =====		
	Sectors compared: 117304992		
	Sectors match: 117304992		
	Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (117304992) has 43531488 fewer sectors than destination (160836480) Zero fill:		
	Src Byte fill (63): 0		
	Dst Byte fill (84): 43531488		
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 117304992-160836479		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors		

Test Case DA-01-USB Sumuri Paladin 2.0.6			
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	====== Excerpt from Tool log ======= Source Drive: Source Physical device SAMSUNG SP0612N 215C1FA1CF 60GB (/dev/sda) ========= Hashes: Hash values calculated during initial creation: Total (md5): ee217bc4fa4f3d1b4021d29b065aa9ec Total (shal): f7069edcbeac863c88deced82159f22da96be99b ======= End of Excerpt from Tool log ======= ===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B		
Results:			
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-04 A clone is created.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-11 A clone is created during acquisition.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.8 DA-02-CF

Test Case Da	-02-CF Sumuri Paladin 2.0.6
Case DA-	DA-02 Acquire a digital source of type DS to an unaligned clone.
Summary:	DA 02 Acquire a digital boaree of type bb to an analysica crone.
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:	jrr
Test Host:	frank
Test Date:	Thu Aug 23 15:31:04 2012
Drives:	src(C1-CF) dst (C2-CF) other (none)
Source	src hash (SHA256): <
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 >
	src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B >
	src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 >
	503808 total sectors (257949696 bytes)
	Model (CF) 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	===== Destination drive setup ======
Highlights:	503808 sectors wiped with C2
	===== Comparison 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
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux
	====== Excerpt from Tool log ====== Source Drive:
	Source C1-CF on Physical device Generic CF 0000001 257MB (/dev/sda)
	Source C1-CF on Physical device Generic CF 0000001 257MB (/dev/sda) Source C1-CF on Physical device Generic CF 0000001 257MB (/dev/sda) ============= Hashes:
	Hash values calculated during initial creation:
	Hash values calculated during initial creation:
	THE TALES CALCULATED ANTING INTERIOR CLUMCTON.

Test Case DA-	·02-CF Sumuri Paladin 2.0.6	
	Total (md5): 776df8b4d2589e21debcf589edc16d78 Total (sha1): 5b8235178df99fa307430c088f817466 ====== End of Excerpt from Tool log =======	
	===== Source drive rehash ===== Rehash (SHA1) of source: 5B8235178DF99FA307430	C088F81746606638A0B
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		<u>. </u>
Analysis:	Expected results achieved	

5.2.9 DA-02-THUMB

Test Case DA-	02-THUMB Sumuri Paladin 2.0.6
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-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
	the digital source is unchanged by the acquisition process.
Tester Name:	jrr
Test Host:	frank
Test Date:	Thu Aug 23 10:29:57 2012
Drives:	src(D5-THUMB) dst (D6-THUMB) other (none)
Source	src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08FDC53E38A >
Setup:	src hash (MD5): < C843593624B2B3B878596D8760B19954 >
_	505856 total sectors (258998272 bytes)
	Model (usb2.0Flash Disk) serial # ()
Highlights:	4001760 sectors wiped with D6 ====== Comparison of original to clone drive ====== Sectors compared: 505856 Sectors match: 505856 Sectors differ: 0 Bytes differ: 0 Diffs range Source (505856) has 3495904 fewer sectors than destination (4001760) Zero fill: 0 Src Byte fill (D5): 0 Dst Byte fill (D6): 3495904 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 505856-4001759 Other fill range: Other not filled range:
	Os: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ======= Source Drive: Source Physical device CRUCIAL usb2.0Flash Disk 1040000000000000 258MB (/dev/sdf) ========= Hashes: Hash values calculated during initial creation: Total (md5): c843593624b2b3b878596d8760b19954 Total (shal): d68520ef74a336e49dccf83815b7b08fdc53e38a

Test Case DA-	02-THUMB Sumuri Paladin 2.0.6	
	===== End of Excerpt from Tool log ======	
	===== Source drive rehash =====	0.201 55550055 6525203
	Rehash (SHA1) of source: D68520EF74A336E49DCCF	83815B7B08FDC53E38A
Results:		
Rebuieb.	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-04 A clone is created.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-11 A clone is created during acquisition.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.10 DA-04

Test Case DA	-04 Sumuri Paladin 2.0.6
Case	
	DA-04 Acquire a physical device to a truncated 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-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately.
	A0-11 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.
	digital source is unchanged by the acquisition process.
m	
	CST
	Medicality
	· · · · · · · · · · · · · · · · · · ·
secup.	
	· · · ·
	· · ·
	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
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 078107967 sectors 39991279104 bytes
Log	
HIGNIIGNTS:	330/3120 Sectors Wiped With 31
	Comparison of original to glone drive
	-1
	Source (78125000) has 42451880 more sectors than destination (35673120)
	0 source read errors, 0 destination read errors
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC
	2011 i686 i686 i386 GNU/Linux
	====== Message from tool
	dcfldd:: No space left on device
	====== Excerpt from Tool log ======
	Source Drive:
	Model Number: WDC WD400BB-75JHC0
Tester Name: Test Host: Test Date: Drives: Source Setup: Log Highlights:	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. CST McGarrett Mon Aug 20 21:11:41 2012 Src(41) dst (31-IDE) other (none) Src hash (SHA256): < FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3FFB13203F1B1D > Src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > Src hash (MD5): < 0A6A8EF78BDC14E202671DB8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/016/63 (number of cyl/hd) IDE disk: Model (MDC WD400BB-75JHCO) 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 0000/000/000 0000/000/00 3 P 00000000 000000000 0000/000/00 0000/000/00 4 P 000000000 000000000 0000/000/00 0000/000/00 1 0 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 1 0 of empty entry 1 078107967 sectors 39991279104 bytes ====== Destination drive setup ====== Sectors compared: 35673120 Sectors differ: 0 Bytes differ: 0 Bytes differ: 0 Diffs range Source (78125000) has 42451880 more sectors than destination (35673120) O source read errors, 0 destination read errors OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ====================================

Test Case DA	-04 Sumuri Paladin 2.0.6	
	Serial Number: WD-WMAMC4658355 ======== Hashes: Hash values calculated during initial creation ====== End of Excerpt from Tool log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 15CAA1A307271160D8372	
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-19 Truncated clone is created.	as expected
	AO-20 User notified that clone is truncated.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		·
Analysis:	Expected results achieved	

5.2.11 DA-06-ATA28

Test Case DA-0	06-ATA28 Sumuri Paladin 2.0.6
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	jrl
Test Host:	DeathStar
Test Date:	Mon Aug 20 10:58:27 2012
Drives:	src(01-ide-96) dst (none) other (10-fu)
Source Setup:	Src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (0BB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ===== Image file segments ===== 1 2097152000 2012-08-20 10:15 da-06-ata28.002.dmgpart 2 2097152000 2012-08-20 10:16 da-06-ata28.003.dmgpart 3 2097152000 2012-08-20 10:16 da-06-ata28.004.dmgpart
	18 2097152000 2012-08-20 10:28 da-06-ata28.019.dmgpart 19 174776320 2012-08-20 10:29 da-06-ata28.020.dmgpart

Test Case DA-	06-ATA28 Sumuri Paladin 2.0.6	
	20 2097152000 2012-08-20 10:14 da-06-ata28.dmg	
	====== Excerpt from Tool log ======	
	Source Drive:	
	Model Number: ST340014A	
	Serial Number: 5JXAZT1E	
	======== Hashes:	
	Hash values calculated during initial creation:	
	Total (md5): f458f673894753fa6a0ec8b8ec63848e	
	Total (sha1): a48bb5665d6dc57c22db68e2f723da9aa8df8	
	Hash values for verification started at 20120820 10	:29:07:
	Total (md5): f458f673894753fa6a0ec8b8ec63848e	01.0
	Total (shal): a48bb5665d6dc57c22db68e2f723da9aa8df8	209
	====== End of Excerpt from Tool log ======	
	===== Source drive rehash =====	
	Rehash (SHA1) of source: A48BB5665D6DC57C22DB68E2F7	22070770000000
	Remain (Shai) of Source: Afobbsoosbobcs/czzbbooszr/	ZSDAJAAODI OZBJ
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-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 as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired.	as expected as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block.	as expected option not available
	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-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

5.2.12 DA-06-ATA48

Test Case DA-	06-ATA48 Sumuri Paladin 2.0.6	
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	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:	jrl	
Test Host:	DeathStar	
Test Date:	Mon Aug 20 11:23:24 2012	
Drives:	src(4c) dst (none) other (10-FU)	
Source	src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554	F872EFBF >
Source Setup:	<pre>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-</pre>	> WMAMR1031111) ot Partition type
Highlights:	2011 i686 i686 i386 GNU/Linux ===== Image file segments ===== 1 2097152000 2012-08-20 11:35 da-06-ata48.002 2 2097152000 2012-08-20 11:35 da-06-ata48.003 3 2097152000 2012-08-20 11:36 da-06-ata48.004 94 2097152000 2012-08-20 12:39 da-06-ata48.095 95 820207616 2012-08-20 12:39 da-06-ata48.096	dmgpart dmgpart dmgpart
	96 2097152000 2012-08-20 11:34 da-06-ata48.dmg ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD2000JB-00KFA0 Serial Number: WD-WMAMR1031111 =========== Hashes: Hash values calculated during initial creation: Total (md5): d10f763b56d4ceba2d1311c61f9fb382 Total (sha1): 8ff620d2bedccafe8412edaad56c8554f872efbf ====== End of Excerpt from Tool log ======= Rehash (SHA1) of source: 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF	
Results:		
-1050105	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.	
	AM-03 EXECUCION ENVIRONMENT IS AE.	as expected

Test Case DA-0	06-ATA48 Sumuri Paladin 2.0.6	
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	·

5.2.13 DA-06-FW

J.Z. 13	DA-00-1 VV	
Test Case DA-	-06-FW Sumuri Paladin 2.0.6	
Case Summary:	DA-06 Acquire a physical device using access interf	ace AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file of 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	1222	
Tester Name:	jrr	
Test Host:	SamSpade	
Test Date:	Fri Aug 17 15:17:53 2012	
Drives:	src(63-FU2) dst (none) other (OC-FU)	
Source	src hash (SHA256): <	
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F924 src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22D. src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC 117304992 total sectors (60060155904 bytes) Model (SP0612N) serial # () N Start LBA Length Start C/H/S End C/H/S bo 1 P 000000063 004192902 0000/001/01 0260/254/63 Bo 2 X 004192965 113097600 0261/000/01 1023/254/63 3 S 000000063 113097537 0261/001/01 1023/254/63 4 S 000000000 000000000 0000/000/00 0000/000/00 5 P 000000000 000000000 0000/000/00 0000/000/00 6 P 000000000 000000000 0000/000/00 0000/000/00 1 004192902 sectors 2146765824 bytes 3 113097537 sectors 57905938944 bytes	A96BE99B > ot Partition type ot 06 Fat16 OF extended OB Fat32 O0 empty entry O0 empty entry O0 empty entry
Highlights:	2011 i686 i686 i386 GNU/Linux ===== Image file segments ===== 1 895155499 2012-08-17 16:10 da-06-fw.E01 2 875 2012-08-17 16:10 da-06-fw.log.txt ======= Excerpt from Tool log ======= Source Drive: Source Physical device DMI SAMSUNG SP0612N 60GB (/dev/sdb) ========== Hashes: Hash values calculated during initial creation: Total (md5): ee217bc4fa4f3d1b4021d29b065aa9ec MD5 hash calculated over data: ee217bc4fa4f3d1b4021d29b065aa9ec SHA1 hash calculated over data: f7069edcbeac863c88deced82159f22da96be99b ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B	
Results:		
Assertion & Expected Result Actual Result		
		as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected

Test Case DA-	06-FW Sumuri Paladin 2.0.6	
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		_
Analysis:	Expected results achieved	<u>-</u>

5.2.14 DA-06-SATA28

	-06-SATA28 Sumuri Paladin 2.0.6	
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 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 edigital source is unchanged by the acquisition proc	creates an image file on ital source. are acquired accurately. epresented by the image equested size then all quested size. s for a specified block from the digital source. ion, the information is xecution environment, the
Tester Name:	jrr	
Test Host:	frank	
Test Date:	Fri Aug 17 09:48:43 2012	
Drives:	src(01-SATA) dst (none) other (OC-FU)	
Source Setup:	src hash (SHA256): < 1AA01FEAE55F5CD55185D2B1A1359B3F913E7093FEF1D1ADA220CAC456BA40D8 > src hash (SHA1): < 4951236428C36B944E62E8D65862DCBEF05F282C > src hash (MD5): < 0A49B13D91FA9DA87CEEE9D006CB6FD6 > 156301488 total sectors (80026361856 bytes) Model (OJD-32HKA0) serial # (WD-WMAJ91448529)	
Log Highlights:	### Tool Settings: ===== size 2000 MB format E01 OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31 2011 i686 i686 i386 GNU/Linux	
	===== Image file segments =====	
	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive:	g.txt
Pagulta	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive:	g.txt da87ceee9d006cb6fd6
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive:	g.txt da87ceee9d006cb6fd6 62DCBEF05F282C
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive:	da87ceee9d006cb6fd6 62DCBEF05F282C
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD800JD-32HKA0 Serial Number: WD-WMAJ91448529 ========= Hashes: Hash values calculated during initial creation: Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6 MD5 hash calculated over data: 0a49b13d91fa9dSHA1 hash calculated over data: 4951236428c36b944e62e8d65862dcbef05f282c ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: 4951236428C36B944E62E8D658 Assertion & Expected Result AM-01 Source acquired using interface AI.	da87ceee9d006cb6fd6 62DCBEF05F282C Actual Result as expected
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD800JD-32HKA0 Serial Number: WD-WMAJ91448529 ========= Hashes: Hash values calculated during initial creation: Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6 MD5 hash calculated over data: 0a49b13d91fa9dSHA1 hash calculated over data: 4951236428c36b944e62e8d65862dcbef05f282c ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: 4951236428C36B944E62E8D658 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	da87ceee9d006cb6fd6 62DCBEF05F282C Actual Result as expected as expected
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD800JD-32HKA0 Serial Number: WD-WMAJ91448529 ========= Hashes: Hash values calculated during initial creation: Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6 MD5 hash calculated over data: 0a49b13d91fa9d SHA1 hash calculated over data: 0a49b13d91fa9d SHA1 hash calculated over data: 4951236428c36b944e62e8d65862dcbef05f282c ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: 4951236428C36B944E62E8D658 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	da87ceee9d006cb6fd6 62DCBEF05F282C Actual Result as expected as expected as expected as expected as expected
Results:	1 1189795474 2012-08-17 11:02 da-06-sata28.E01 2 2645 2012-08-17 11:02 da-06-sata28.log ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD800JD-32HKA0 Serial Number: WD-WMAJ91448529 ========= Hashes: Hash values calculated during initial creation: Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6 MD5 hash calculated over data: 0a49b13d91fa9dSHA1 hash calculated over data: 4951236428c36b944e62e8d65862dcbef05f282c ======= End of Excerpt from Tool log ======= Rehash (SHA1) of source: 4951236428C36B944E62E8D658 Assertion & Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	da87ceee9d006cb6fd6 62DCBEF05F282C Actual Result as expected as expected

Test Case DA	A-06-SATA28 Sumuri Paladin 2.0.6	
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.15 DA-06-SATA48

Test Case DA-	06-SATA48 Sumuri Paladin 2.0.6
Case	DA-06 Acquire a physical device using access interface AI to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. 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:	csr
Test Host:	McGarrett
Test Date:	Thu Aug 16 20:49:52 2012
Drives:	src(Od-sata) dst (none) other (OF-FU)
Source	src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 >
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 00 empty entry 4 P 000000000 000000000 0000/000/00 0000/000/00 1 488375937 sectors 250048479744 bytes
Log Highlights:	===== Tool Settings: ===== image size: 2GB image format: dd OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux
	===== Image file segments ===== 1 2097152000 2012-08-16 21:38 da-06-sata48.001 2 2097152000 2012-08-16 21:39 da-06-sata48.002 3 2097152000 2012-08-16 21:40 da-06-sata48.003 118 2097152000 2012-08-16 23:33 da-06-sata48.118 119 2097152000 2012-08-16 23:34 da-06-sata48.119 120 498262016 2012-08-16 23:34 da-06-sata48.120 ======= Excerpt from Tool log ======= Source Drive: Model Number: WDC WD2500JD-22FYB0 Serial Number: WD-WMAEH2678216 ====================================
	===== Source drive rehash ====== Rehash (SHA1) of source: BAAD80E8781E55F2E3EF528CA73BD41D228C1377

Test Case DA-	06-SATA48 Sumuri Paladin 2.0.6	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		<u>. </u>
Analysis:	Expected results achieved	

5.2.16 DA-06-SCSI

J.Z. 10	DA-00-3C31		
Test Case DA-	06-SCSI Sumuri Paladin 2.0.6		
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	ss the digital source.	
	AM-02 The tool acquires digital source DS.		
	AM-03 The tool executes in execution environment XE		
	AM-05 If image file creation is specified, the tool	creates an image file	
	on file system type FS.		
	AM-06 All visible sectors are acquired from the dig	ital source.	
	AM-08 All sectors acquired from the digital source		
	AO-01 If the tool creates an image file, the data r	epresented by the image	
	file is the same as the data acquired by the tool.		
	AO-05 If the tool creates a multi-file image of a 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	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:	irr		
Test Host:	frank		
Test Date:	Fri Aug 17 14:28:16 2012		
Drives:	src(E0) dst (none) other (OC-FU)		
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA61	58BECB82 >	
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938	>	
-	17938985 total sectors (9184760320 bytes)		
	Model (ATLAS10K2-TY092J) serial # (169028142436)		
Log			
Highlights:	===== Tool Settings: =====		
	format dd		
	size 2000 MB		
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mo	n Apr 11 03:31:50 UTC	
	2011 i686 i686 i386 GNU/Linux		
	- 613		
	===== Image file segments =====		
	1 2097152000 2012-08-17 14:44 da-06-scsi.001		
	2 2097152000 2012-08-17 14:45 da-06-scsi.002		
	3 2097152000 2012-08-17 14:47 da-06-scsi.003		
	4 2097152000 2012-08-17 14:48 da-06-scsi.004		
	5 796152320 2012-08-17 14:49 da-06-scsi.005		
	6 1558 2012-08-17 14:49 da-06-scsi.log.t	txt	
	====== Excerpt from Tool log ======		
	Source Drive:		
	/dev/sdf: QUANTUM ATLAS10K2-TY092J DDD6		
	======== Hashes:		
	Hash values calculated during initial creation:		
	Total (md5): a97c8f36b7ac9d5233b90ac09284f938	h02	
	Total (sha1): 4a6941f1337a8a22b10fc844b4d7fa6158bec	D82	
	====== End of Excerpt from Tool log ======		
	===== Source drive rehash =====		
	Rehash (SHA1) of source: 4A6941F1337A8A22B10FC844B4	D7FA6158BFCB82	
	Mender (Dimi) of Bource, IMOSILIBS/MONZZBIOCC044B4	D, I ROLJODECDOZ	
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-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	_	
	AM-08 All sectors accurately acquired.	as expected as expected as expected	
		as expected	

Test Case DA-0	06-SCSI Sumuri Paladin 2.0.6	
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.17 DA-06-USB

3.2.17	DA-00-03B
	-06-USB Sumuri Paladin 2.0.6
Case Summary:	DA-06 Acquire a physical device using access interface AI to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester	jrr
Name: Test Host:	SamSpade
Test Date:	Fri Aug 17 13:06:55 2012
Drives:	src(63-FU2) dst (none) other (OC-FU)
Source	src hash (SHA256): <
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F9247A98EF613BB1D > src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B > src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC > 117304992 total sectors (60060155904 bytes) Model (SP0612N) serial # () N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16 2 X 004192965 113097600 0261/0000/01 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
Highlights:	===== Tool Settings: ====== format E01 size 2000 MB OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====
	===== Source drive rehash ======

Test Case Di	Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B	
	Menasi (Simil) of Soulor 1,0032505210005005202502	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	·

5.2.18 DA-07-CF

	07-CF Sumuri Paladin 2.0.6
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	jrr
Name:	
Test Host:	frank
Test Date:	Fri Aug 24 10:30:18 2012
Drives:	src(C1-CF) dst (none) other (OC-FU)
Source Setup:	<pre>src hash (SHA256): < C7CF0218222DF80D5316511D6814266C7FA507C13F795AD3D323BB73C1590D80 > src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B > src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes) Model (</pre>
Highlights:	===== Tool Settings: ====== format E01 size 2000 MB OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====
	Rehash (SHA1) of source: 5B8235178DF99FA307430C088F81746606638A0B

Test Case DA-	07-CF Sumuri Paladin 2.0.6	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	·

5.2.19 **DA-07-EXFAT**

	DA-01-LAI A I
Test Case DA-	07-EXFAT Sumuri Paladin 2.0.6
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	csr
Name:	
Test Host:	McGarrett
Test Date:	Wed Aug 22 02:59:37 2012
Drives: Source	<pre>src(49-SATA) dst (none) other (0F-FU) src hash (SHA1): < 6EC98F42EB5914D1F9D1661C0BB0A3660569F95B ></pre>
Setup:	src hash (MD5): < 30BAB74F67783C0555BCBD73DD4D0D5E > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (5QZ5TD8Y) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000002048 010485760 0000/032/33 0652/213/09 07 NTFS 2 P 010490445 005863725 0653/000/01 1017/254/63 83 Linux 3 P 016354170 007807590 1018/000/01 1023/254/63 83 Linux 4 P 000000000 000000000 0000/000/00 0000/000/00 1 010485760 sectors 5368709120 bytes 2 005863725 sectors 3002227200 bytes 3 007807590 sectors 3997486080 bytes 49-SATAEXFAT-sha256 10485760 1309F5D1C2BC16E02F9C87A6AC8D79308F636B34DC002081757C4564A1373497 49-SATAEXFAT-sha1sum 10485760 3D44F34844E82F9DEDDD5CDC33E18EC066CF1EAB 49-SATAEXFAT-md5sum 10485760 E85782BF9358629D0115B70EEDE2C616
Highlights:	===== Tool Settings: ====== image size: 2GB image format: dmg OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====

Test Case DA	: Case DA-07-EXFAT Sumuri Paladin 2.0.6		
	===== Source drive rehash =====		
	Rehash (SHA1) of source: 6EC98F42EB5914D1F9D1661C0BB0A3660569F95B		
Results:		-	
	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-01 Image file is complete and accurate.	as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
		·	
Analysis:	Expected results achieved		

5.2.20 DA-07-EXT2

J.Z.ZU	DA-07-EX12		
Test Case DA-07-EXT2 Sumuri Paladin 2.0.6			
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 then all		
	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:	jrl		
Test Host:	DeathStar		
Test Date:	Fri Aug 24 10:33:13 2012		
Drives:	src(01-ide-96) dst (none) other (10fu)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	<pre>src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E ></pre>		
	78165360 total sectors (40020664320 bytes)		
	Model (0BB-00JHC0) serial # (WD-WMAMC74171)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63		
	2 X 020980890 057175335 1023/000/01 1023/254/63		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104513 1023/000/01 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 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
	01EXT2-md5 5371075583 3BE2499E47EE59076A0B11FFC5A6E382		
	01EXT2-sha1 5371075583 4E0A134245803EF9F4669493F1C357D59F4A74FE		
	01ext2-md5 5371075583 3BE2499E47EE59076A0B11FFC5A6E382		
	01ext2-sha1 5371075583 4E0A134245803EF9F4669493F1C357D59F4A74FE		
Log	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC		
Highlights:	2011 i686 i686 i386 GNU/Linux		
	Image file geometra		
	===== Image file segments ===== 1 2097152000 2012-08-24 09:32 da-07-ext2.002.dmgpart		
	2 1176771584 2012-08-24 09:33 da-07-ext2.002.dmgpart		
	2 11/0//1501 2012 00 21 07:55 da-0/-ext2.005.dmgpaic		

Test Case DA-	07-EXT2 Sumuri Paladin 2.0.6	
	3 2097152000 2012-08-24 09:31 da-07-ext2.dmg 4 1297 2012-08-24 09:33 da-07-ext2.log.t ======= Excerpt from Tool log ======= Hash values calculated during initial creation: Total (md5): 3be2499e47ee59076a0b11ffc5a6e382 Total (sha1): 4e0a134245803ef9f4669493f1c357d59f4a7 ======= End of Excerpt from Tool 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.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
		·
Analysis:	Expected results achieved	

5.2.21 DA-07-EXT3

J.Z.Z I	DA-UI-LATS	
Test Case DA-	07-EXT3 Sumuri Paladin 2.0.6	
Case	DA-07 Acquire a digital source of type DS to an image file.	
Summary:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source.	
ASSELLIONS.		
	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:	csr	
Test Host:	McGarrett	
	Tue Aug 21 21:23:47 2012	
Test Date:		
Drives:	src(49-sata) dst (none) other (0F-FU)	
Source	src hash (SHA1): < 6EC98F42EB5914D1F9D1661C0BB0A3660569F95B >	
Setup:	<pre>src hash (MD5): < 30BAB74F67783C0555BCBD73DD4D0D5E ></pre>	
	156301488 total sectors (80026361856 bytes)	
	Model (ST380815AS) serial # (5QZ5TD8Y)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000002048 010485760 0000/032/33 0652/213/09 07 NTFS	
	2 P 010490445 005863725 0653/000/01 1017/254/63 83 Linux	
	3 P 016354170 007807590 1018/000/01 1023/254/63 83 Linux	
	4 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 010485760 sectors 5368709120 bytes	
	2 005863725 sectors 3002227200 bytes	
	3 007807590 sectors 3997486080 bytes	
	49-SATAEXT3-md5sum 5863725 A25176AE775F65181DAC8C8D051DDF5D	
	49-SATAEXT3-sha1sum 5863725 FDF0F2BA2D4CB2D45E45717213AE218880236418	
Log		
Highlights:	===== Tool Settings: =====	
mightights.	imgae size: 3GB	
	image format: E01	
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC	
	2011 i686 i686 i386 GNU/Linux	
	===== Image file segments =====	
	1 43689377 2012-08-21 21:42 da-07-ext3.E01	
	2 3260 2012-08-21 21:42 da-07-ext3.E01	
	9	
	====== Excerpt from Tool log ======	
	Source Drive:	
	Model Number: ST380815AS	
	Serial Number: 5QZ5TD8Y	
	======= Hashes:	
	Hash values calculated during initial creation:	
	Total (md5): a25176ae775f65181dac8c8d051ddf5d	
	MD5 hash calculated over data: a25176ae775f65181dac8c8d051ddf5d	
	SHAl hash calculated over data: SHAl hash calculated over data:	
	*	
	fdf0f2ba2d4cb2d45e45717213ae218880236418	
	Hash values for verification started at 20120821 21:42:49:	
	MD5 hash stored in file: a25176ae775f65181dac8c8d051ddf5d	
	MD5 hash calculated over data: a25176ae775f65181dac8c8d051ddf5d	
	SHA1 hash stored in file: fdf0f2ba2d4cb2d45e45717213ae218880236418	
	SHA1 hash calculated over data:	
	fdf0f2ba2d4cb2d45e45717213ae218880236418	

Test Case DA-07-EXT3 Sumuri Paladin 2.0.6			
	====== End of Excerpt from Tool log ======		
	===== Source drive rehash =====		
	Rehash (SHA1) of source: 6EC98F42EB5914D1F9D1661C0B	B0A3660569F95B	
Results:			
11000100	Assertion & Expected Result	Actual Result	
	AM-01 Source acquired using interface AI.	as expected	
	AM-02 Source is type DS.	as expected	
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AM-06 All visible sectors acquired.	as expected	
	AM-08 All sectors accurately acquired.	as expected	
	AO-01 Image file is complete and accurate.	as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	option not available	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.22 DA-07-EXT4

Test Case DA-0	07-EXT4 Sumuri Paladin 2.0.6
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:	csr
Test Host:	McGarrett
Test Date:	Wed Aug 22 01:40:04 2012
Drives:	src(49-sata) dst (none) other (0F-FU)
Source	src hash (SHA1): < 6EC98F42EB5914D1F9D1661C0BB0A3660569F95B >
Setup:	src hash (MD5): < 30BAB74F67783C0555BCBD73DD4D0D5E >
	156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (5QZ5TD8Y) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000002048 010485760 0000/032/33 0652/213/09 07 NTFS 2 P 010490445 005863725 0653/000/01 1017/254/63 83 Linux 3 P 016354170 007807590 1018/000/01 1023/254/63 83 Linux 4 P 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	====== Tool Settings: ====== image size: 2GB image format: dd OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====
	Total (md5): 567f2826ab468d69f97cb0d1878be25d Total (shal): f28a79f5e5cd28f859alac6b18a2ca3682d15a2a Hash values for verification started at 20120822 02:02:04: Total (md5): 567f2826ab468d69f97cb0d1878be25d Total (shal): f28a79f5e5cd28f859alac6b18a2ca3682d15a2a ====== End of Excerpt from Tool log ======= ===== Source drive rehash ===== Rehash (SHAl) of source: 6EC98F42EB5914D1F9D1661C0BB0A3660569F95B

Assertion & Expected Result	_
Assertion & Expected Result	Actual Result
AM-01 Source acquired using interface AI.	as expected
AM-02 Source is type DS.	as expected
AM-03 Execution environment is XE.	as expected
AM-05 An image is created on file system type FS.	as expected
AM-06 All visible sectors acquired.	as expected
AM-08 All sectors accurately acquired.	as expected
AO-01 Image file is complete and accurate.	as expected
AO-05 Multifile image created.	as expected
AO-22 Tool calculates hashes by block.	option not available
AO-23 Logged information is correct.	as expected
AO-24 Source is unchanged by acquisition.	as expected

5.2.23 DA-07-F12

Test Case DA-07-F12 Sumuri Paladin 2.0.6			
Case Summary:	DA-07 Acquire a digital source of type DS to an image file.		
Summary: Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
	the digital source is unchanged by the acquistrion process.		
Tester Name:	jrl		
Test Host:	DeathStar		
Test Date:	Fri Aug 24 10:33:33 2012		
Drives:	src(01-ide-96) dst (none) other (10fu)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	<pre>src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E ></pre>		
Secup.	No. No.		
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux		
	===== Image file segments ====== 1 249377 2012-08-24 08:46 da-07-f12.E01 2 1110 2012-08-24 08:46 da-07-f12.log.txt ======= Excerpt from Tool log ======= =============================		

Test Case DA-	07-F12 Sumuri Paladin 2.0.6	
	Hash values calculated during initial creation: Total (md5): e20e3cfea80bf6f2d2aa75e829cc8cd9	
	MD5 hash calculated over data: e20e3cfea80bf6f2d2aa75e829cc8cd9 SHA1 hash calculated over data: f8b72b65436de3bd394acff71d405d0389c0e9b7 ======= End of Excerpt from Tool 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.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	·

5.2.24 DA-07-F16

Test Case DA-07-F16 Summari Paladin 2.0.6 Case Summary: DA-07 Acquire a digital source of type DS to an image file. Summary: AM-02 The tool acquires digital source DS. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All visible sectors are acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. creates desire than all the individual files shall be no larger than the requested size than all the individual files shall be no larger than the requested size. AO-22 If requested, the tool colculates 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 foremsically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: jrl Tester Name: probable Security Se	J.Z.Z4	DA-01-1 10	
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 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-33 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-44 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Fricate Fric	Test Case DA-		
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 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-33 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-44 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Fricate Fric	Case	DA-07 Acquire a digital source of type DS to an image file.	
AM-02 The tool acquires digital source DS. 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. AM-09 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AM-08 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. AM-02 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AM-02 If the tool logs any log significant information, the information is accurately recorded in the log file. AM-04 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: Test Date: Fri Aug 24 10:33:46 2012 Drives: stro(01-ide-96) dot (none) other (10fu) Source strong (MBH): < AMBBBS65166C7C2DB66E2F72DA9AABDF82B9 > stro hash (MB5): < P458P673894753FA6ADKC88BKC588488 > 78165360 total sectors (4002D664320 bytes) Model (DBB-00JHCO)	Summary:		
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. AD-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AD-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size then all the individual files shall be no larger than the requested size. AD-02 If The quested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AD-03 If the tool logs any log significant information, the information is accurately recorded in the log file. AD-04 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Nome: ### Test Most: Peath Most: Peath All Peath All Peath All Peath All	Assertions:	3	
AM-05 If image file creation is specified, the tool creates an image file on file system type FS.			
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 them all the individual files shall be no larger than the requested size them all the individual files shall be no larger than the requested size them all the individual files shall be no larger than the requested size. AO-22 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:			
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 them 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 Most: DeathStar			
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. Test Date: Test Dat			
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-31 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. TestDate: Pet 1 Aug 24 10:33:46 2012 DeathStar TestDate: Pri Aug 24 10:33:46 2012 Source Stc hash (SHA1): < A48BB5665D6DCS7C22DB68E2F723DA9AABDF82B9 > Stc hash (MB5): < P458BF673B94753F6ABGE8B8C63B48E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-MMAMC74171) N Start LBA Length Start C/H/S End C/H/S bot Partition type 1 P 000000063 20098027 7000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF extended 3 S 000000063 00032067 1023/003/001 1023/254/63 OF extended 5 S 000000063 000320645 1023/000/01 1023/254/63 OF extended 5 S 000000063 00104452 1023/000/01 1023/254/63 OF extended 6 x 002136645 004192965 1023/000/01 1023/254/63 OF extended 7 S 000000063 0014952 1023/000/01 1023/254/63 OF extended 9 S 000000063 001495290 1023/000/01 1023/254/63 OF extended 1 S 000000063 0014952 1023/000/01 1023/254/63 OF extended 1 S 000000063 00000000 000000000 000000000 00000000			
file is the same as the data acquired by the tool. AD-05 If the tool creates a multi-file image of a requested size then all the individual files shall be no larger than the requested size. AD-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AD-23 If the tool logs amy log significant information, the information is accurately recorded in the log file. AD-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: jrl			
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 Name: jrl Test Host: DeathStar Test Date: Pri Aug 24 10:33:46 2012 Drives: src hash (SHAI): < A48B85665D6C57C22D868227723DA9AABDF2B9 > Scr hash (MSD): < F48SP673994753FA6ADG888C63840F>> 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-NWAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 00000063 020990827 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-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AD-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Date: DeathStar			
AO-22 If requested, the tool calculates block hashes for a specificab 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 Death Star Test Date: DeathStar Test Date: Str DeathStar Test Date: Str DeathStar Test Date: Str Death (NDS): v 1458F673804753FA6DRCMBBEC6344E > Str Death (NDS): v 1458F674F674 > OF Fat12X			
Size during an acquisition for each block acquired from the digital source. AO-23 ff 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: Fri Aug 24 10:33:46 2012			
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. Test Bost: DeathStar Test Date: Fri Aug 24 10:33:46 2012 Drives: Src(01-ide-96) dat (none) other (10fu) Source Src hash (SHA1): A MABBS665D6DC57C2DB68E2F723DA9AABDF82B9 > Setup: Src hash (SHA1): A MABBS665D6DC57C2DB68E2F723DA9AABDF82B9 > Setup: Src hash (MD5): < F458P673894753FA6ADC6BB8E2G63848E > 78165360 total sectors (40020664320 bytes) Model (0BB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 00000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057175333 1023/0000/01 1023/254/63 0F extended 3 S 00000063 00003026f 1023/001/01 1023/254/63 0F extended 5 S 00000063 002104452 1023/001/01 1023/254/63 0F extended 5 S 00000063 002104452 1023/001/01 1023/254/63 0F extended 7 S 00000063 002104452 1023/001/01 1023/254/63 0F extended 7 S 00000063 001492902 1023/001/01 1023/254/63 0F extended 7 S 00000063 004192902 1023/001/01 1023/254/63 0F extended 9 S 00000063 004192902 1023/001/01 1023/254/63 0F extended 9 S 00000063 004401932 1023/001/01 1023/254/63 0F extended 11 S 00000063 00490393 1023/001/01 1023/254/63 0F extended 11 S 00000063 00490393 1023/001/01 1023/254/63 0F extended 11 S 00000063 004209967 1023/001/01 1023/254/63 0F extended 11 S 00000063 004209967 1023/001/01 1023/254/63 0F extended 15 S 00000063 027744191 1023/001/01 1023/254/63 0F extended 15 S 00000063 02774191 1023/001/01 1023/254/63 0F extende			
### A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Host:		AO-23 If the tool logs any log significant information, the information is	
Tester Name: jrl Test Host: DeathStar Test Date: Fri Aug 24 10:33:46 2012 Drives: src(01-ide-96) dst (none) other (10fu) Source src hash (SHA1): < A48BB566556DC57C22DB6BE2F723DA9AA8DF82B9 > Setup: src hash (MD5): < F458F673894753FA6A0EC8BBEC63848E > 78165360 total sectors (40020664320 bytes) Model (DBB-00JHCO)			
Tester Name:		AO-24 If the tool executes in a forensically safe execution environment,	
Test Date: Fri Aug 24 10:33:46 2012 Drives: Src(01-ide-96) dst (none) other (10fu) Source Setup: src hash (SHA1): < A48BB5665b6D67C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < P458F673894753FA6AD6C8BBEC6384BE > 78165360 total sectors (40020664320 bytes) Model (DBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63		the digital source is unchanged by the acquisition process.	
Test Date: Fri Aug 24 10:33:46 2012 Drives: Src(01-ide-96) dst (none) other (10fu) Source Setup: src hash (SHA1): < A48BB5665b6D67C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < P458F673894753FA6AD6C8BBEC6384BE > 78165360 total sectors (40020664320 bytes) Model (DBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63			
Test Date: Fri Aug 24 10:33:46 2012 Drives: src(01-ide-96) dst (none) other (10fu) Source Set bash (SHAI): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > src hash (SHAI): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < F458F673B94753FA6ADEC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (0BB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63	Tester Name:	jrl	
Drives: src(01-ide-96) dst (none) other (10fu) Source src hash (SHA1): A48BB5655DC57C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6ADEC8BBEC63B46E > 78165360 total sectors (40020664320 bytes) Model (DBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63	Test Host:	DeathStar	
Source Setup: STC hash (SHA1): < A48BB5665DGDC57C2DB68E2F723DA9AA8DF82B9 >	Test Date:	Fri Aug 24 10:33:46 2012	
Setup: Src hash (ND5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (DBB-00JHCO)	Drives:		
Model (0BB-00JHC0) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 OF extended 3 S 000000063 020032067 1023/001/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104515 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104515 1023/001/01 1023/254/63 OF extended 6 × 002136645 004192965 1023/001/01 1023/254/63 OF extended 7 S 000000063 004192902 1023/001/01 1023/254/63 OF extended 7 S 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 00000063 008401932 1023/001/01 1023/254/63 OF extended 9 S 00000063 008401932 1023/001/01 1023/254/63 OF extended 10 x 014731605 010490445 1023/001/01 1023/254/63 OF extended 11 S 00000063 010490382 1023/001/01 1023/254/63 OF extended 12 S 00000063 004209930 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209930 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209930 1023/001/01 1023/254/63 OF extended 14 x 029431080 027744255 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended O	Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Model (OBB-OUTHCO) Serial # (WD-WMAMC74171)	Setup:		
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16 S 000000000 000000000 0000/000/00 0000/000/00 00		14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended	
17 P 000000000 000000000 0000/000/00 0000/000/00 00			
18 P 000000000 000000000 0000/000/00 0000/000/00 00			
1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes 01F16-md5 1077479423 8B24F3D793188AF2473F69B267AFDA42 01F16-shal 1077479423 074BA831B10132F4BF9F86AFAB37CB7FEF482C7D Log Highlights: OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ====== Image file segments ======			
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Highlights: 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====	Log	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC	
	_		
1 1077479424 2012-08-24 09:05 da-07-f16.dmg			
2 1041 2012-08-24 09:05 da-07-f16.log.txt		7	
====== Excerpt from Tool log ======			
======= Hashes:		======== Hashes:	

	Hash values calculated during initial creation:	
	Total (md5): 8b24f3d793188af2473f69b267afda42	
	· · · ·) 7 -3
	Total (shal): 074ba831b10132f4bf9f86afab37cb7fef482	2C/a
	====== End of Excerpt from Tool log ======	
D 1		
Results:	Aggardian C Ermoghad Bagult	Actual Result
	Assertion & Expected Result	
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	A0-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.25 DA-07-F32

Test Case DA-	07-F32 Sumuri Paladin 2.0.6	
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.	
m	27	
Tester Name:	jrl	
Test Host:	DeathStar	
Test Date:	Fri Aug 24 10:34:07 2012	
Drives:	src(01-ide-96) dst (none) other (10fu)	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8BBEC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104515 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 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 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 000000063 008401932 1023/001/01 1023/254/63 OF extended 9 S 000000063 010490445 1023/000/01 1023/254/63 OF extended 11 S 000000063 010490382 1023/001/01 1023/254/63 OF extended 12 X 025222050 004209030 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209031 1023/001/01 1023/254/63 OF extended 13 S 000000063 004209067 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744255 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 16 S 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 17 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 10 020980827 sectors 10742183424 bytes 10 010490382 sectors 5371075584 bytes 10 010490382 sectors 2146765824 bytes 10 010490382 sectors 14205026304 bytes 11 010490382 sectors 14205026304 bytes 01F32-mbal 4301789183 BFF7DC64C54339DA2A9D7972C076B514 01F32-shal 4301789183 BFF7DC64C54339DA2A9D7972C076B514	
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux	
	===== Image file segments ====== 1 2097152000 2012-08-24 09:20 da-07-f32.001	

Test Case DA-	07-F32 Sumuri Paladin 2.0.6	
	2 2097152000 2012-08-24 09:21 da-07-f32.002 3 107485184 2012-08-24 09:21 da-07-f32.003 4 1291 2012-08-24 09:21 da-07-f32.log.tx ====== Excerpt from Tool log ======= ======== Hashes: Hash values calculated during initial creation: Total (md5): bff7dc64c54339da2a9d7972c076b514 Total (shal): b861d9e999f39750b484ffb693ff69dec090c ======= End of Excerpt from Tool 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.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.26 DA-07-F32X

Test Case DA-	07-F32X Sumuri Paladin 2.0.6	
Case	DA-07 Acquire a digital source of type DS to an image	file.
Summary:	an of the best war are the section of the section o	
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 f on file system type FS.	
	AM-06 All visible sectors are acquired from the digit AM-08 All sectors acquired from the digital source ar AO-01 If the tool creates an image file, the data rep	e acquired accurately.
	file is the same as the data acquired by the tool. AO-05 If the tool creates a multi-file image of a rec	
	the individual files shall be no larger than the requ AO-22 If requested, the tool calculates block hashes	for a specified block
	size during an acquisition for each block acquired fr AO-23 If the tool logs any log significant information	
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe exethe digital source is unchanged by the acquisition process.	
Tester Name:	jrl	
Test Host:	DeathStar	
Test Date: Drives:	Fri Aug 24 10:34:18 2012	
Source	<pre>src(01-ide-96) dst (none) other (10fu) src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8</pre>	NDF82B9 >
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
_	78165360 total sectors (40020664320 bytes)	
	Model (OBB-00JHCO) serial # (WD-WMAMC74171	
	N Start LBA Length Start C/H/S End C/H/S boot 1 P 000000063 020980827 0000/001/01 1023/254/63	Partition type OC Fat32X
	2 X 020980890 057175335 1023/000/01 1023/254/63	0F extended
	3 S 000000063 000032067 1023/001/01 1023/254/63	01 Fat12
	4 x 000032130 002104515 1023/000/01 1023/254/63	05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/63 6 x 002136645 004192965 1023/000/01 1023/254/63	06 Fat16 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63	16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63	05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63	OB Fat32
	10 x 014731605 010490445 1023/000/01 1023/254/63 11 S 000000063 010490382 1023/001/01 1023/254/63	05 extended 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63	05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63	82 Linux swap
	14 x 029431080 027744255 1023/000/01 1023/254/63	05 extended
	15 S 000000063 027744192 1023/001/01 1023/254/63	07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 17 P 00000000 00000000 0000/000/00 0000/000/00	00 empty entry 00 empty entry
	18 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027744192 sectors 14205026304 bytes 01F32X-md5 10742183423 B5BFD9CE3990C577EF89C5AFB925F9	47
	01F32X-sha1 10742183423 30BA6CF583A176C5DB533E3A2F57E	
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon 2011 i686 i686 i386 GNU/Linux	Apr 11 03:31:50 UTC
	===== Image file segments ===== 1 160169772 2012-08-24 09:28 da-07-f32x.E01 2 1125 2012-08-24 09:28 da-07-f32x.log.txt ======= Excerpt from Tool log =======	
	======== Hashes:	

Test Case DA	-07-F32X Sumuri Paladin 2.0.6	
	Hash values calculated during initial creation: Total (md5): b5bfd9ce3990c577ef89c5afb925f947 MD5 hash calculated over data: b5bfd9ce3990c5 SHA1 hash calculated over data: 30ba6cf583a176c5db533e3a2f57bfd5a4a870c1 ======= End of Excerpt from Tool log =======	577ef89c5afb925f947
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
7	The arted angulta arbianed	
Analysis:	Expected results achieved	

5.2.27 DA-07-NTFS

	DA-07-N11 3	
Test Case DA-	07-NTFS Sumuri Paladin 2.0.6	
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	jrl	
Name:	±±-	
Test Host:	DeathStar	
Test Date:	Fri Aug 24 10:34:39 2012	
Drives:	src(01-ide-96) dst (none) other (10fu)	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > M8165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63 OC Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF extended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF extended 5 S 000000063 002104452 1023/001/01 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 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 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 000000063 008401932 1023/001/01 1023/254/63 OF extended 9 S 000000063 01049032 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 00420930 1023/000/01 1023/254/63 OF extended 13 S 000000063 00420930 1023/001/01 1023/254/63 OF extended 15 S 000000063 00420930 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 16 S 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 17 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 18 P 000000000 00000000 0000/000/00 0000/000/00 OF empty entry 19 008401932 sectors 10742183424 bytes 10 004109382 sectors 2146765824 bytes 10 004109382 sectors 2154991104 bytes 15 027744192 sectors 14205026303 PBA8436295CB9622CD815577429C3A588C34D09 10NTFS-sha1 14205026303 9B27B30BEB80FFBA8C660FA1590D49 10NTFS-sha256 14205026303 6FBARC36295CB9622CD815577429C3A588C34D09 10NTFS-sha256 14205026303 6FBARC36295CB9622CD815577429C3A588C34D09	
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC 2011 i686 i686 i386 GNU/Linux ====== Image file segments ======	
	1 2097152000 2012-08-24 09:38 da-07-ntfs.001	

Test Case DA-	07-NTFS Sumuri Paladin 2.0.6	
	2 2097152000 2012-08-24 09:38 da-07-ntfs.002	
	3 2097152000 2012-08-24 09:39 da-07-ntfs.003	
	5 2097152000 2012-08-24 09:41 da-07-ntfs.005	
	6 2097152000 2012-08-24 09:42 da-07-ntfs.006	
	7 1622114304 2012-08-24 09:43 da-07-ntfs.007	
	====== Excerpt from Tool log ======	
	======= Hashes:	
	Hash values calculated during initial creation:	
	Total (md5): 92b27b30bee8b0ffba8c660fa1590d49	
	Total (sha1): 0fba4c36295cb9622cd815577429c3a588c34	d09
	====== End of Excerpt from Tool log =======	
Results:	American & Tomortod Popula	Actual Result
	Assertion & Expected Result	
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.28 DA-07-SWAP

Test Case DA-	07-SWAP Sumuri Paladin 2.0.6	
Case Summary:	DA-07 Acquire a digital source of type DS to an image	e 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:	jrl	
Test Host:	DeathStar	
Test Date:	Fri Aug 24 10:34:56 2012	
Drives:	src(01-ide-96) dst (none) other (10fu)	DE0.2D0 .
Source Setup:	<pre>src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8 src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E ></pre>	
Бесир.	78165360 total sectors (40020664320 bytes)	
	Model (OBB-00JHCO) serial # (WD-WMAMC74171	.)
	~	Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63 2 X 020980890 057175335 1023/000/01 1023/254/63	OC Fat32X OF extended
	3 S 000000063 000032067 1023/001/01 1023/254/63	01 Fat12
	4 x 000032130 002104515 1023/000/01 1023/254/63	05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/63	06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63	05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 8 x 006329610 008401995 1023/000/01 1023/254/63	16 other 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63	OB Fat32
	10 x 014731605 010490445 1023/000/01 1023/254/63	05 extended
	11 S 000000063 010490382 1023/001/01 1023/254/63	83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63	05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63	82 Linux swap
	14 x 029431080 027744255 1023/000/01 1023/254/63 15 S 000000063 027744192 1023/001/01 1023/254/63	05 extended 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	17 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	18 P 000000000 000000000 0000/000/00 0000/000/00	00 empty entry
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes	
	01SWAP-md5 2154991103 275AC7873F9B4A8FBF271FE882BFF37	'8
	01SWAP-sha1 2154991103 DFC370186AC5762481D5CBC83FA45D	
Log Highlights:	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon 2011 i686 i686 i386 GNU/Linux	Apr 11 03:31:50 UTC
	===== Image file segments =====	
	1 32138127 2012-08-24 09:59 da-07-swap.E01	
	2 1125 2012-08-24 09:59 da-07-swap.log.txt	
	====== Excerpt from Tool log ====== ======= Hashes:	
	========= nasnes.	

	-07-SWAP Sumuri Paladin 2.0.6 Hash values calculated during initial creation:	
	Total (md5): 275ac7873f9b4a8fbf271fe882bff378	
	MD5 hash calculated over data: 275ac7873f9b4	8fhf271fa882hff378
	SHA1 hash calculated over data: 275ac767519548	ROIDIZ/IIE00ZDII3/0
	dfc370186ac5762481d5cbc83fa45d638f7df183	
	====== End of Excerpt from Tool log =======	
	End of Excerpt from 1001 109	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.29 DA-07-THUMB

Test Case DA-	07-THUMB Sumuri Paladin 2.0.6	
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 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.	creates an image file rital source. are acquired accurately. epresented by the image requested size then all equested size. Is for a specified block from the digital source. ion, the information is
Tester Name:	AO-24 If the tool executes in a forensically safe e the digital source is unchanged by the acquisition irr	
Test Host:	frank	
Test Date:	Wed Aug 22 10:20:36 2012	
Drives:	src(D5-THUMB) dst (none) other (OC-FU)	
Source	src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08F	DC53E38A >
Setup:	<pre>src hash (MD5): < C843593624B2B3B878596D8760B19954 505856 total sectors (258998272 bytes) Model (usb2.0Flash Disk) serial # ()</pre>	: >
Log Highlights:	ghts: ===== Tool Settings: ===== format dd size 2000 MB OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 2011 i686 i686 i386 GNU/Linux	
	===== Image file segments ====== 1 258998272 2012-08-22 10:33 da-06-thumb.001 2 836 2012-08-22 10:33 da-06-thumb.log. ======= Excerpt from Tool log ======= Source Drive: Source Physical device CRUCIAL usb2.0Flash Disk 104 (/dev/sdi) ============== Hashes: Hash values calculated during initial creation: Total (md5): c843593624b2b3b878596d8760b19954 Total (sha1): d68520ef74a336e49dccf83815b7b08fdc53e ======= End of Excerpt from Tool log ======== E==== Source drive rehash ====== Rehash (SHA1) of source: D68520EF74A336E49DCCF83815	.00000000000000 258MB
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		-

Test Case DA-	07-THUMB Sumuri Paladin 2.0.6
Analysis:	Expected results achieved

5.2.30 DA-09

Test Case DA	-09 Sumuri Paladin 2.0.6
Case	DA-09 Acquire a digital source that has at least one faulty data sector.
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 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	csr
Name:	Palmakina
Test Host:	Palpatine Thu Aug 23 13:17:56 2012
Test Date: Drives:	Thu Aug 23 13:17:56 2012 src(ed-bad-cpr4) dst (7c-sata) other (none)
Source	No before hash for ED-BAD-CPR4
Setup:	Known Bad Sector List for ED-BAD-CPR4 Manufacturer: Maxtor Model: DiamondMax Plus 9 Serial Number: Y23EGSJE Capacity: 60GB Interface: SATA
	35 faulty sectors 6160328, 6160362, 10041157, 10041995, 10118634, 10209448, 11256569, 14115689, 14778391, 14778392, 14778449, 14778479, 14778517, 14778518, 14778519, 14778520, 14778521, 14778551, 14778607, 14778626, 14778627, 14778650, 14778668, 14778669, 14778709, 14778727, 14778747, 14778772, 14778781, 14778870, 14778949, 14778953, 14779038, 14779113, 14779321
Log Highlights:	===== Destination drive setup ===== 156250000 sectors wiped with 7C
	===== Comparison of original to clone drive ====== Sectors compared: 120103200 Sectors match: 6160328 Sectors differ: 113942872 Bytes differ: 735660040 Diffs range 6160328-120103199 Source (120103200) has 36146800 fewer sectors than destination (156250000) Zero fill: 24 Src Byte fill (ED): 520 Dst Byte fill (7C): 36146256 Other fill: 0 Other no fill: 0 Zero fill range: 120103720-120103743 Src fill range: 120103200-120103719 Dst fill range: 120103744-156249999

```
Test Case DA-09 Sumuri Paladin 2.0.6
             Other fill range:
             Other not filled range:
             O source read errors, O destination read errors
             OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC
             2011 i686 i686 i386 GNU/Linux
             ====== Excerpt from Tool log ======
             dcfldd:/dev/sda: Input/output error
             96255+1 records in
             96256+0 records out
             dcfldd:/dev/sda: Input/output error
             156891+3 records in
             156894+0 records out
             dcfldd:/dev/sda: Input/output error
             156903+5 records in
             156908+0 records out
             dcfldd:/dev/sda: Input/output error
             158099+7 records in
             158106+0 records out
             dcfldd:/dev/sda: Input/output error
             159517+8 records in
             159525+0 records out
             dcfldd:/dev/sda: Input/output error
             175877+10 records in
             175887+0 records out
             dcfldd:/dev/sda: Input/output error
             220549+12 records in
             220561+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+14 records in
             230916+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+15 records in
             230917+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+16 records in
             230918+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+18 records in
             230920+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+19 records in
             230921+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+21 records in
             230923+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+23 records in
             230925+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+25 records in
             230927+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+27 records in
             230929+0 records out
             dcfldd:/dev/sda: Input/output error
             230902+29 records in
             230931+0 records out
             dcfldd:/dev/sda: Input/output error
             230904+31 records in
             230935+0 records out
             1876588+33 records in
             1876621+0 records out
             ====== Hashes:
             Hash values calculated during initial creation:
             Total (md5): 578d7769b79d58968435b062cfd79d3a
             Total (sha1): 613d86cf602ad592d4e839e174e2dcef83fa6ba4
             ====== End of Excerpt from Tool log =======
```

Test Case DA-	-09 Sumuri Paladin 2.0.6	
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.	some sectors skipped
	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.	option not available
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
		<u> </u>
Analysis:	Expected results not achieved	

5.2.31 DA-12

J.Z.J I	DA-12	
Test Case DA-	-12 Sumuri Paladin 2.0.6	
Case	DA-12 Attempt to create an image file where there is	s insufficient space.
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 file system type FS. AO-04 If the tool is creating an image file and the on the image destination device to contain the image notify the user. AO-23 If the tool logs any log significant informat accurately recorded in the log file. AO-24 If the tool executes in a forensically safe endigital source is unchanged by the acquisition process.	creates an image file on re is insufficient space e file, the tool shall ion, the information is execution environment, the
Tester	csr	
Name:		
Test Host:	MaGarrett	
Test Date:	Thu Aug 23 02:53:19 2012	
Drives:	src(41) dst (66) other (none)	
Source	src hash (SHA256): <	
Setup:	FBF3AA21489653D880FFAE71449A9F7E8EE4F56A6C3BF58A3A3: src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC 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-WI N Start LBA Length Start C/H/S End C/H/S booked by the start LBA Length Start C/H/S End C/H/S Booked Production of the start C/H/S End C/H/S End C/H/S Booked Production of the start C/H/S End C/H/S	45A51CC9 > > MAMC4658355) ot Partition type
Highlights:	===== Tool Settings: ====== image size: 2GB image format: dd OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mos 2011 i686 i686 i386 GNU/Linux ===== Image file segments =====	n Apr 11 03:31:50 UTC
	====== Excerpt from Tool log ======= Source Drive: Model Number: WDC WD400BB-75JHC0 Serial Number: WD-WMAMC4658355 ========= Hashes: Hash values calculated during initial creation: ====== End of Excerpt from Tool log =======	
Results:		
	Assertion & Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	L Double ID C/PC DD.	011 <u>F</u> 00000

Test Case DA	-12 Sumuri Paladin 2.0.6		
	AM-03 Execution environment is XE.	as expected	
	AM-05 An image is created on file system type FS.	as expected	
	AO-04 User notified if space exhausted.	as expected	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	not checked	
Analysis:	Expected results achieved		

5.2.32 DA-14-ATA28

Test Case DA-	14-ATA28 Sumuri Paladin 2.0.6
Case Summary:	DA-14 Create an unaligned clone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE. AO-12 If requested, a clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
Tester Name:	jrl
Test Host:	DarthMaul
Test Date:	Tue Aug 28 14:02:48 2012
Drives:	src(01-ide-96) dst (50-sata) other (0E-FU)
Source Setup:	<pre>src hash (SHA1): < A48BB5665D6DC57C2ZDB68E2F723DBA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (0BB-00JHC0</pre>
Log Highlights:	===== Destination drive setup ====== 156301488 sectors wiped with 50
	====== Comparison 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: 0 Src Byte fill (01): 0 Dst Byte fill (50): 78136128 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range:

Test Case DA-	14-ATA28 Sumuri Paladin 2.0.6	
	Dst fill range: 78165360-156301487 Other fill range: Other not filled range: O source read errors, O destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ======= ======= Hashes: Hash values calculated during initial creation Total (md5): f458f673894753fa6a0ec8b8ec63848e Total (shal): a48bb5665d6dc57c22db68e2f723da9a ======= End of Excerpt from Tool log =======	MP Mon Apr 11 03:31:50 UTC : a8df82b9
Results:	Assertion & Expected Result AM-03 Execution environment is XE.	Actual Result as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.33 DA-14-ATA48

Case Da-14 Create an unaligned clone from an image file.	
Assertions: AN-03 The tool executes in execution environment XE. AO-13 A clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone accurately written to the same disk address on the clone that the sect occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device a not modified. AO-23 If the tool logs any log significant information, the informatic accurately recorded in the log file. Test Name: Test Bast: DeathStar Test DeathStar Test DeathStar Test DeathStar Test Death Tue Aug 28 15:29:10 2012 Drives: Source Src hash (SHA1): AFF62002EBDCTP4 Source Src hash (SHA1): AFF62002EBDCTP4 Source Src hash (MD5): A D10F76818604CSBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/255/63 (number of cyl/hd) IDE disk: Model (MDC WD2000H-00KFA0) serial # (WD-WMAMR103111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 39070737 0000/001/01 123/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/0000/00 000000	
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 device. A0-14 If an unaligned clone is created, each sector written to the clone coupled on the digital source. A0-17 If requested, any excess sectors on a clone destination device a not modified. A0-23 If the tool logs any log significant information, the informatic accurately recorded in the log file. Test Host: Test Host: DeathStar Test Date: Test Date: Test Date: Test Aug 28 15:29:10 2012 Drives: Sor(40) dst (47-sata) other (10-fu) Source Sor hash (MF5): < D10F763B5604CERB2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24320/254/63 (max cyl/hd values) 24321/255/63 (number of cyl/hd) IDE disk: Model (WDC WD2000JB-00JFA0) 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 00000/0000/00 00000/000/00 1 P 000000000 000000000 0000/0000/00 0000/000/00 Prive Prive A P 000000000 000000000 0000/000/00 0000/000/00 Prive Prive A P 000000000 000000000 0000/000/00 0000/000/00 Bytes differ: 0 Bytes differ: 0 Diffs range Sectors compared: 390721968 Sectors match: 390721968 Sectors match: 390721968 Sectors match: 390721968 Sectors of siffer: 0 Diffs range: Source (390721968) has 97675200 fewer sectors than destination (488397 Zero fill: 0 Dray Byte fill (4C): 0 Dray Byte fil	
accurately written to the same disk address on the clone that the sect occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device a not modified. AO-23 If the tool logs any log significant information, the informatic accurately recorded in the log file. Test Host: Test Host: Test Date: Test Aug 28 15:29:10 2012 Drives: Src (4c) dst (47-sata) other (10-fu) Source Src hash (SHA1): < 8FF62D02BEDCCAFE8412EDAAD56C8554F872EFBF > src hash (MD5): < 1010F/63B56D4CBBA2D1311C61F9FB382 > 39071968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24320/254/63 (mumber of cyl/hd) IDE disk: Model (WDC WD2000UB-00KFA0) serial # (WD-WMAMR103111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 390700737 0000/000/10 1023/254/63 Boot O7 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00	the
not modified. A0-23 If the tool logs any log significant information, the informatic accurately recorded in the log file.	ector
Test Date:	
Test Date: Tue Aug 28 15:29:10 2012 Drives: src(4c) dst (47-sata) other (10-fu) Source src hash (SHA1): < 8FF520D2BEDCCAF88412EDAAD56C8554F872EFBF > src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/254/63 (max cy1/hd values) 24321/255/63 (number of cy1/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 000000000 000000000 0000/000/00 0000/000/00 00	
Drives: src(4c) dst (47-sata) other (10-fu) Source Str hash (SHAl): < 8FF620D2EDCCAFF8412EDAAD56C8554F872EFBF > stc hash (MD5): < D10F763B56D4C8B72B1311C61F9FB382 > 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 3 P 000000000 000000000 0000/000/00 0000/000/00 4 P 00000000 000000000 0000/000/00 0000/000/00 1 390700737 sectors 200038777344 bytes Log Highlights: Log Highlights: Log Bytes differ: Sectors match: 390721968 Sectors differ: Bytes differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (4C): 0 Dst Byte fill (4C): 0 Cero fill: 0 Cero fill: 0 Cero fill: 0 Cero fill range: Src fill range: Src fill range: Other not filled range: 0 source read errors, 0 destination read errors OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 U2016	
Source	
Setup: Setup: Src hash	
N Start LBA Length	
Highlights: 488397168 sectors wiped with 47 ====== Comparison 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 (488397) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 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 OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 U 2011 i686 i686 i386 GNU/Linux	У
Sectors compared: 390721968 Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397 Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (47): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 390721968-488397167 Other fill range: 0 Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 U 2011 i686 i686 i386 GNU/Linux	
======================================	
====== End of Excerpt from Tool log ======= 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	

Test Case DA-	-14-ATA48 Sumuri Paladin 2.0.6		
	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		

5.2.34 DA-14-CF

	-14-CF Sumuri Paladin 2.0.6	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environme	
	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.	
	A0-17 If requested, any excess sectors on a cl modified.	one destination device are not
		ormation the information is
	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	jrr	
Name:		
Test Host:	frank	
Test Date:	Fri Aug 24 11:28:23 2012	
Drives:	src(C1-CF) dst (C2-CF) other (OC-FU)	
Source	src hash (SHA256): <	
Setup:	C7CF0218222DF80D5316511D6814266C7FA507C13F795A	D3D323BB73C1590D80 >
=	src hash (SHA1): < 5B8235178DF99FA307430C088F8	1746606638A0B >
	<pre>src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC</pre>	16D78 >
	503808 total sectors (257949696 bytes)	
	Model (CF) serial # ()	
	I	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 drive setup =====	
Highlights:	503808 sectors wiped with C2	
	Total and a second with the second se	
	===== Comparison of original to clone drive =	====
	===== Comparison of original to clone drive = Sectors compared: 503808	====
		====
	Sectors compared: 503808	====
	Sectors compared: 503808 Sectors match: 503808	====
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0	====
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0	
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ======= Excerpt from Tool log =======	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ================================	s
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ======= ======== Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information MD5: 776df8b4d2589e21	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ====== Hashes: Digest hash information MD5: 776df8b4d2589e21 SHA1: 5b8235178df99fa3	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information MD5: 776df8b4d2589e21 SHA1: 5b8235178df99fa3 Hash values calculated during initial creation	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b :
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======== Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b :
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b :
Results:	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======== Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b :
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ========= Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b :
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ========= Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======== Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result as expected
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======== Hashes: Digest hash information	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result as expected as expected as expected
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information MD5: 776df8b4d2589e21 SHA1: 5b8235178df99fa3 Hash values calculated during initial creation Total (md5): 776df8b4d2589e21debcf589edc16d78 Total (sha1): 5b8235178df99fa307430c088f817466 ======= End of Excerpt from Tool log ======= Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI.	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result as expected as expected as expected as expected as expected
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======== Hashes: Digest hash information MD5: 776df8b4d2589e21 SHA1: 5b8235178df99fa3 Hash values calculated during initial creation Total (md5): 776df8b4d2589e21debcf589edc16d78 Total (sha1): 5b8235178df99fa307430c088f817466 ======= End of Excerpt from Tool log ======= Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result as expected
	Sectors compared: 503808 Sectors match: 503808 Sectors differ: 0 Bytes differ: 0 Diffs range 0 source read errors, 0 destination read error OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== ======= Hashes: Digest hash information MD5: 776df8b4d2589e21 SHA1: 5b8235178df99fa3 Hash values calculated during initial creation Total (md5): 776df8b4d2589e21debcf589edc16d78 Total (sha1): 5b8235178df99fa307430c088f817466 ======= End of Excerpt from Tool log ======= Assertion & Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI.	s MP Mon Apr 11 03:31:50 UTC debcf589edc16d78 07430c088f81746606638a0b : 06638a0b Actual Result as expected as expected as expected as expected as expected

Test Case DA-	-14-CF Sumuri Paladin 2.0.6
Analysis:	Expected results achieved

5.2.35 DA-14-FW

Test Case DA	-14-FW Sumuri Paladin 2.0.6
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	jrr
Name:	
Test Host:	Scimitar
Test Date:	Tue Sep 18 14:57:12 2012
Drives:	src(63-FU2) dst (50-IDE) other (OC-FU)
Source	src hash (SHA256): <
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F9247A98EF613BB1D >
	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >
	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC >
	117304992 total sectors (60060155904 bytes)
	Model (SP0612N) serial # ()
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16
	2 X 004192965 113097600 0261/000/01 1023/254/63
	3 S 000000063 113097537 0261/001/01 1023/254/63
	4 S 000000000 000000000 0000/000/00 0000/000/00 00
	5 P 000000000 000000000 0000/000/00 0000/000/00 00
	of doddood doddood doddy do dody dody do
	1 004192902 sectors 2146765824 bytes
	3 113097537 sectors 57905938944 bytes
Tog	===== Destination drive setup =====
Log Highlights:	156301488 sectors wiped with 50
ilightighes.	130301100 Sectors wiped with 30
	===== Comparison of original to clone drive =====
	Sectors compared: 117304992
	Sectors match: 117304992
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (117304992) has 38996496 fewer sectors than destination (156301488)
	Zero fill: 0
	Src Byte fill (63): 0
	Dst Byte fill (50): 38996496
	Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range:
	Dst fill range: 117304992-156301487
	Other fill range:
	Other not filled range:
	0 source read errors, 0 destination read errors
	o bouled read errors, o describactor read errors
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC
	2011 i686 i686 i386 GNU/Linux
	Evgernt from Tool log
	====== Excerpt from Tool log ======= ======= Hashes:
	Digest hash information
	MD5: ee217bc4fa4f3d1b4021d29b065aa9ec
	MD5: ee217bc4fa4f3d1b4021d29b065aa9ec SHA1: f7069edcbeac863c88deced82159f22da96be99b
	MD5: ee217bc4fa4f3d1b4021d29b065aa9ec

Test Case DA	-14-FW Sumuri Paladin 2.0.6	
	Total (sha1): f7069edcbeac863c88deced82159f22d	a96be99b
	====== End of Excerpt from Tool log ======	
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	

5.2.36 DA-14-SATA28

Test Case DA	-14-SATA28 Sumuri Paladin 2.0.6	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environme	
	AO-12 If requested, a clone is created from an	
	A0-13 A clone is created using access interfaction device.	e DST-AI to write to the clone
	AO-14 If an unaligned clone is created, each s	ector written to the clone is
	accurately written to the same disk address on	
	occupied on the digital source.	one orone ondo one peocor
	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	jrr	
Name:		
Test Host:	frank	
Test Date:	Mon Aug 20 10:06:42 2012	
Drives:	src(01-SATA) dst (05-SATA) other (OC-FU)	
Source	src hash (SHA256): <	
Setup:	1AA01FEAE55F5CD55185D2B1A1359B3F913E7093FEF1D1	ADA220CAC456BA40D8 >
	src hash (SHA1): < 4951236428C36B944E62E8D6586	
	src hash (MD5): < 0A49B13D91FA9DA87CEEE9D006C	B6FD6 >
	156301488 total sectors (80026361856 bytes)	0500)
	Model (0JD-32HKA0) serial # (WD-WMAJ9144	ك2∀)
Log	===== Destination drive setup =====	
Highlights:	156301488 sectors wiped with 5	
5 5		
	====== Comparison 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 error	a
	bource read errors, o describation read error	5
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S	MP Mon Apr 11 03:31:50 UTC
	2011 i686 i686 i386 GNU/Linux	
	====== Excerpt from Tool log ======	
	========= Hashes:	
	Digest hash information MD5: 0a49b13d91fa9da8	7ceee9d006ch6fd6
		4e62e8d65862dcbef05f282c
	Hash values calculated during initial creation	
	Total (md5): 0a49b13d91fa9da87ceee9d006cb6fd6	
	Total (sha1): 4951236428c36b944e62e8d65862dcbe	f05f282c
	====== End of Excerpt from Tool log =======	
Results:		
MCDUILD.	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
		
7 m = 1	Demonstrad consults and out of	
Analysis:	Expected results achieved	

5.2.37 DA-14-SATA48

Test Case DA-	14-SATA48 Sumuri Paladin 2.0.6	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environme	
	AO-12 If requested, a clone is created from an	
	AO-13 A clone is created using access interfac clone device.	e DST-Al to write to the
	AO-14 If an unaligned clone is created, each s	ector written to the clone is
	accurately written to the same disk address on	
	occupied on the digital source.	
	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:	csr	
Test Host:	McGarrett	
Test Date:	Sun Aug 19 21:27:42 2012	
Drives:	src(0d-sata) dst (2C-sata) other (OF-FU)	
Source	src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73	BD41D228C1377 >
Setup:	src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411	E40C9 >
	488397168 total sectors (250059350016 bytes)	
	30400/254/63 (max cyl/hd values) 30401/255/63 (number of cyl/hd)	
	30401/255/63 (number of cyl/na) Model (WDC WD2500JD-22F) serial # (WD-WMAEH267	8216)
	N Start LBA Length Start C/H/S End C/H/S	
	1 P 000000063 488375937 0000/001/01 1023/254/	
	2 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	3 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	4 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	1 488375937 sectors 250048479744 bytes	
Log	===== Destination drive setup =====	
Highlights:	488397168 sectors wiped with 2C	
5		
	====== Comparison of original to clone drive =	====
	Sectors compared: 488397168	
	Sectors match: 488397168	
	Sectors differ: 0 Bytes differ: 0	
	Bytes differ: 0 Diffs range	
	0 source read errors, 0 destination read error	S
		_
	====== Excerpt from Tool log ======	
	========= Hashes:	
	Hash values calculated during initial creation	:
	Total (md5): 1fa7c3cbe60eb9e89863ded2411e40c9	220~1277
	Total (shal): baad80e8781e55f2e3ef528ca73bd41d ======= End of Excerpt from Tool log ========	.228013//
	Elia of Excerpt from 1001 109 =======	
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	
члатльть.	EVACCECA TEDATED ACTITEACA	

5.2.38 DA-14-SCSI

Summary: Assertions: Ala	A-14 Create an unaligned clone from an image file. M-03 The tool executes in execution environment XE. O-12 If requested, a clone is created from an image file. O-13 A clone is created using access interface DST-AI to write to the lone device. O-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. Prr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHAI): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ====== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Assertions: Al A A A A A A A A A A A A A A A A A A	O-12 If requested, a clone is created from an image file. O-13 A clone is created using access interface DST-AI to write to the lone device. O-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rrc(ED) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: S:	O-12 If requested, a clone is created from an image file. O-13 A clone is created using access interface DST-AI to write to the lone device. O-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rrc(ED) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: 1: Mr. Log	O-13 A clone is created using access interface DST-AI to write to the lone device. O-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	lone device. 0-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. 0-17 If requested, any excess sectors on a clone destination device are ot modified. 0-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	O-14 If an unaligned clone is created, each sector written to the clone is ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F13377A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	ccurately written to the same disk address on the clone that the sector ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. Prank UR Aug 21 10:18:45 2012 Prc(EO) dst (08-IDE) other (OF-FU) Prc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > Prc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) Odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Torives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	ccupied on the digital source. O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(EO) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: S:	O-17 If requested, any excess sectors on a clone destination device are ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	ot modified. O-23 If the tool logs any log significant information, the information is ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	ccurately recorded in the log file. rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Tester Name: j: Test Host: f: Test Date: T: Drives: s: Source s: Setup: s: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	rr rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Test Host: ff Test Date: T Drives: S: Source S: Setup: S: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Test Host: ff Test Date: T Drives: S: Source S: Setup: S: Highlights: 7: Sign Sign Sign Sign Sign Sign Sign Sign	rank ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Test Date: Tourives: Signature Setup: Setup: Signature Se	ue Aug 21 10:18:45 2012 rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Drives: S: Source S: Setup: S: Highlights: 7: Source S: Setup: Since S:	rc(E0) dst (08-IDE) other (OF-FU) rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Source S: Setup: S: I' Mo Log Highlights: 7: S: S: S: S: B: B: B: Source S: Source S: Source S: Source S: Source S: Source Source Sign Source	rc hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Setup: SSETUP: SSETUP: SSETUP: Moreover and setup an	rc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ==== Destination drive setup ===== 8165360 sectors wiped with 8 ==== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Log = Highlights: 7:	7938985 total sectors (9184760320 bytes) odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ===== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Log = Highlights: 7.	odel (ATLAS10K2-TY092J) serial # (169028142436) ===== Destination drive setup ====== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Log = 7. This is a second of the second of t	===== Destination drive setup ====== 8165360 sectors wiped with 8 ===== Comparison of original to clone drive ====== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Highlights: 7: Signature of the control of the con	8165360 sectors wiped with 8 ===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
=: Si Si Si	===== Comparison of original to clone drive ===== ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Si Si Si	ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Si Si Si	ectors compared: 17938985 ectors match: 17938985 ectors differ: 0
Si Si Bi	ectors match: 17938985 ectors differ: 0
Se Br	ectors differ: 0
B	
	vtes differ: 0
	ytes differ: 0 iffs range
	ource (17938985) has 60226375 fewer sectors than destination (78165360)
	ero fill: 0
	rc Byte fill (E0): 0
	st Byte fill (08): 60226375
	ther fill: 0
0.	ther no fill: 0
Z	ero fill range:
	rc fill range:
	st fill range: 17938985-78165359
	ther fill range:
	ther not filled range:
	source read errors, 0 destination read errors
	S: Linux sumuri 2.6.38-8-generic #42-Ubuntu SMP Mon Apr 11 03:31:50 UTC
	011 i686 i686 i386 GNU/Linux
=	====== Excerpt from Tool log =======
	======= Hashes:
H	ash values calculated during initial creation:
	otal (md5): a97c8f36b7ac9d5233b90ac09284f938
	otal (sha1): 4a6941f1337a8a22b10fc844b4d7fa6158becb82
=:	====== End of Excerpt from Tool log ======
Daniel I and	
Results:	Assertion & Expected Result Actual Result
	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	AO-23 Logged information is correct. as expected
Analysis: E	xpected results achieved

5.2.39 DA-14-THUMB

Test Case DA-	14-THUMB Sumuri Paladin 2.0.6	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environme	ent 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 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 not modified.	one destination device are
	AO-23 If the tool logs any log significant inf	ormation the information is
	accurately recorded in the log file.	ormation, the information is
	desarded, resoluce in one reg rive.	
Tester Name:	jrr	
Test Host:	frank	
Test Date:	Wed Aug 22 13:48:58 2012	
Drives:	src(D5-THUMB) dst (D6-THUMB) other (OC-FU)	
Source	src hash (SHA1): < D68520EF74A336E49DCCF83815B	7B08FDC53E38A >
Setup:	src hash (MD5): < C843593624B2B3B878596D8760B	19954 >
	505856 total sectors (258998272 bytes)	
	Model (usb2.0Flash Disk) serial # ()	
Log	===== Destination drive setup ======	
Highlights:	4001760 sectors wiped with D6	
	Comparison of original to alone drive -	
	====== Comparison of original to clone drive = Sectors compared: 505856	
	Sectors match: 505856	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	Source (505856) has 3495904 fewer sectors than	destination (4001760)
	Zero fill: 0	
	Src Byte fill (D5): 0	
	Dst Byte fill (D6): 3495904	
	Other fill: 0	
	Other no fill: 0	
	Zero fill range: Src fill range:	
	Dst fill range: 505856-4001759	
	Other fill range:	
	Other not filled range:	
	0 source read errors, 0 destination read error	s
	·	
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S	MP Mon Apr 11 03:31:50 UTC
	2011 i686 i686 i386 GNU/Linux	
	====== Excerpt from Tool log =======	
	======== Hashes:	
	Hash values calculated during initial creation Total (md5): c843593624b2b3b878596d8760b19954	
	Total (md5): c843593624b2b3b878596d8760b19954 Total (shal): d68520ef74a336e49dccf83815b7b08f	dc53e38a
	====== End of Excerpt from Tool log =======	
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-THUMB Sumuri Paladin 2.0.6
nalysis:	Expected results achieved

5.2.40 DA-14-USB

Test Case DA-	-14-USB Sumuri Paladin 2.0.6
Case	DA-14 Create an unaligned clone from an image file.
Summary:	21. 11 010000 an analysica ofone from an image file.
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the clone
	device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	decurrency recorded in the roy rife.
Tester	jrr
Name:	
Test Host:	frank
Test Date:	Mon Aug 20 11:05:47 2012
Drives:	src(63-FU2) dst (7A-SATA) other (OC-FU)
Source	src hash (SHA256): <
Setup:	EC8EF011494BA6DA18F74C47547C3E74E7180585096A830F9247A98EF613BB1D >
	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >
	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC >
	117304992 total sectors (60060155904 bytes)
	Model (SP0612N) serial # ()
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16 2 X 004192965 113097600 0261/000/01 1023/254/63
	3 S 000000063 113097537 0261/001/01 1023/254/63
	4 S 000000000 000000000 0000/000/00 0000/000/00 00
	6 P 000000000 00000000 0000/000/00 0000/000/00 00
	1 004192902 sectors 2146765824 bytes
	3 113097537 sectors 57905938944 bytes
Log	===== Destination drive setup =====
Highlights:	156250000 sectors wiped with 7A
	===== Comparison of original to clone drive =====
	Sectors compared: 117304992 Sectors match: 117304992
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (117304992) has 38945008 fewer sectors than destination (156250000)
	Zero fill: 0
	Src Byte fill (63): 0
	Dst Byte fill (7A): 38945008
	Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range: 117304000 156040000
	Dst fill range: 117304992-156249999
	Other fill range:
	Other not filled range: 0 source read errors, 0 destination read errors
	o source read errors, o destination read errors
	====== Excerpt from Tool log =======
	Excerpt from 1001 fog
	Digest hash information
	MD5: ee217bc4fa4f3d1b4021d29b065aa9ec

Test Case DA	DA-14-USB Sumuri Paladin 2.0.6	
	Hash values calculated during initial creation Total (md5): ee217bc4fa4f3d1b4021d29b065aa9ec	
Results:	Total (shal): f7069edcbeac863c88deced82159f22d ====== End of Excerpt from Tool log =======	
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	

5.2.41 DA-17

Test Case DA-	17 Sumuri Paladin 2.0.6	
Case	DA-17 Create a truncated clone from an image f	ile.
Summary:		
Assertions:	AM-03 The tool executes in execution environme	
	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-19 If there is insufficient space to create clone is created using all available sectors o	
	AO-20 If a truncated clone is created, the too	
	AO-23 If the tool logs any log significant inf	
	accurately recorded in the log file.	
Tester	jrr	
Name:		
Test Host:	frank	
Test Date:	Tue Aug 21 13:47:15 2012	
Drives:	src(01-sata) dst (57-IDE) other (OC-FU)	
Source	src hash (SHA256): <	
Setup:	1AA01FEAE55F5CD55185D2B1A1359B3F913E7093FEF1D1	
	<pre>src hash (SHA1): < 4951236428C36B944E62E8D65862DCBEF05F282C > src hash (MD5): < 0A49B13D91FA9DA87CEEE9D006CB6FD6 ></pre>	
	156301488 total sectors (80026361856 bytes)	
	Model (0JD-32HKA0) serial # (WD-WMAJ9144	8529)
	, belief (No Mino)III	,
Log	===== Destination drive setup =====	
Highlights:	80043264 sectors wiped with 57	
	===== Comparison of original to clone drive =	====
	Sectors compared: 80043264	
	Sectors match: 80043264	
	Sectors differ: 0 Bytes differ: 0	
	Diffs range	
	Source (156301488) has 76258224 more sectors t	han destination (80043264)
	0 source read errors, 0 destination read error	
	OS: Linux sumuri 2.6.38-8-generic #42-Ubuntu S	MP Mon Apr 11 03:31:50 UTC
	2011 i686 i686 i386 GNU/Linux	
	Manuaca	
	========= Message from tool	
	dcfldd:: No space left on device	
	====== Excerpt from Tool log ======	
	========= Hashes:	
	Digest hash information	
	MD5: 0a49b13d91fa9da8	7ceee9d006cb6fd6
		4e62e8d65862dcbef05f282c
	Hash values calculated during initial creation	
	====== End of Excerpt from Tool log =======	
Dogulta:		
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 as expected
	AO-13 Clone created using interface AI.	as expected as expected
	AO-19 Truncated clone is created.	as expected as expected
	AO-20 User notified that clone is truncated.	as expected
	AO-23 Logged information is correct.	as expected
		<u> </u>
Analysis:	Expected results achieved	

5.2.42 DA-24

Test Case DA-	24 Sumuri Paladin 2.0.6	
Case	DA-24 Verify a valid image.	
Summary:		
Assertions:	AM-03 The tool executes in execution environ AO-06 If the tool performs an image file in that has not been changed since the file was the user that the image file has not been changed any log significant accurately recorded in the log file.	tegrity check on an image file s created, the tool shall notify hanged.
Tester Name:	jrl	
Test Host:	WoFat	
Test Date:	Tue Aug 28 13:57:07 2012	
Drives:	src(01-ide-96) dst (none) other (0D-FU)	
Source Setup:	, , , , , , , , , , , , , , , , , , , ,	EC63848E > WMAMC74171) H/S boot Partition type 54/63
Log Highlights:	Verifying image from DA-07-F16 OS: Linux sumuri 2.6.38-8-generic #42-Ubunti 2011 i686 i686 i386 GNU/Linux ====== Excerpt from Tool log ====== Hashes: Hash values for verification started at 201 Total (md5): 8b24f3d793188af2473f69b267afda: Total (sha1): 074ba831b10132f4bf9f86afab37cl ====== End of Excerpt from Tool log =====	20828 14:12:54: 42 b7fef482c7d
Results:	Assertion & Expected Result AM-03 Execution environment is XE. AO-06 Tool verifies image file unchanged.	Actual Result as expected as expected
	AO-23 Logged information is correct.	as expected

Test Case DA-	24 Sumuri Paladin 2.0.6
Analysis:	Expected results achieved

5.2.43 DA-25

Test Case DA-	25 Sumuri Paladin 2.0.6
Case	DA-25 Detect a corrupted image.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
Table 1 e 1 e 1 e 1 e 1 e 1	AO-07 If the tool performs an image file integrity check on an image file that has been changed since the file was created, the tool shall notify the user that the image file has been changed. AO-08 If the tool performs an image file integrity check on an image file that has been changed since the file was created, the tool shall notify the user of the affected locations. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	accurately recorded in the rog life.
Tester	jrl
Name:	7++
Test Host:	WoFat
Test Date:	Tue Aug 28 13:57:38 2012
Drives:	src(01-ide-96) dst (none) other (0D-FU)
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >
Log Highlights:	STC hash (MDE): < F458F673894753FA6A0EC8B8EC63848E > 78165360 total sectors (40020664320 bytes)
	====== Excerpt from Tool log ======= ======== Hashes: Hash values for verification started at 20120828 14:28:27: Total (md5): b40525ee3e6c160b9cc0e994ce4b21c6 Total (sha1): d9e16dfdeb2f6560c90edd70f679f957df0fb718 ======= End of Excerpt from Tool log =======
Results:	

Test Case DA-	25 Sumuri Paladin 2.0.6	
	Assertion & Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-07 User notified if image file has changed.	as expected
	AO-08 User notified of changed locations.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	