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Test Results for Digital Data Acquisition Tool: ASR Data SMART version 2010-11-03

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Director, National Institute of Justice

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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's (NIST's) 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, the U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, the Bureau of Immigration and Customs Enforcement and the 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 forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods are posted on the CFTT Web site (http://www.cftt.nist.gov/) for review and comment by the computer forensics community.

This document reports the results from testing ASR Data SMART version 2010-11-03 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 and the CFTT tool methodology can be found on NIJ's CFTT Web page,

http://www.nij.gov/nij/topics/forensics/evidence/digital/standards/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 its 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's owner manual for guidance on using the tool.

Test Results for Digital Data Acquisition Tool

Tool Tested: SMART Software Version: 2010-11-03

Execution SMART Linux live CD version 2011-01

Environment:

Supplier: ASR Data, Data Acquisition and Analysis, LLC.

Address: 3505 Cumberland Gap

Cedar Park, Texas 78613

Tel: (512) 918-9227 Fax: (512) 918-9393

Web: http://www.asrdata.com

1 Results Summary

The tool, SMART, acquired visible and hidden sectors from the test media completely and accurately with the exception of the following cases: DA-08-DCO and DA-09. In both test cases the test results document tool features and not errors in the tool.

It was also observed that the execution environment, the SMART Linux live CD version 2011-01, modified a particular source drive containing an NTFS partition that was used in three cases: DA-02-F12, DA-02-F32, and DA-06-ATA28. CFTT has verified that the problem with NTFS partitions has been fixed in the current release of SMART Linux (August 2011). Upgrading the version of the SMART Linux live CD from the version shipped to NIST by the vendor resulted in an environment that appeared to be SMART Linux, but where the treatment of Linux swap files was misconfigured. Such an environment can under certain conditions manifest anomalies with acquiring Linux swap partitions. This Linux environment displayed anomalies with the following cases: DA-02-SWAP, DA-02-SWAP-ALT, DA-07-SWAP, and DA-14-SWAP. CFTT has verified that these swap anomalies are not present in either the original version of the SMART Linux live CD shipped to NIST by the vendor (May 6, 2010) or the current version of SMART Linux (August 2011).

The following anomalies were observed:

- The sectors hidden by a *device configuration overlay* (DCO) were not acquired (DA-08-DCO).
- Some readable sectors that were near faulty sectors on the test drive were replaced by zeros in the clone that was created in test case DA-09. The number of readable sectors missed varied between 6 and 206 sectors.

- The SMART Linux live CD execution environment modified 88 sectors of the NTFS file system on the source drive used in test cases DA-02-F12, DA-02-F32, and DA-06-ATA28. In DA-06-ATA28 this resulted in 88 sectors differing between the image file created by the tool and the original unaltered source.
- In test case DA-02-SWAP, when cloning a source swap partition to a destination swap partition of the same size, the clone operation aborted without copying the last seven sectors of the source partition.
- When restoring the image of a swap partition to a destination partition that was the same size as the source, the restore operation aborted and did not copy the last seven sectors (DA-14-SWAP).
- When a source swap partition was cloned to a larger destination swap partition in test case DA-02-SWAP-ALT, the clone differed from the source by seven sectors.
- Seven sectors of the image file differed from the source when a swap partition was acquired to an image file (DA-07-SWAP).

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 (DA-06, DA-07 and DA-08) that are executed for every tool tested. Tool features guide the selection of additional test cases. If a given tool implements a given feature then the test cases linked to that feature are run. Table 1 lists the features available in SMART and the linked test cases selected for execution. Table 2 lists the features not available in SMART 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 and 08
Read error during acquisition	09
Create an image file in more than one format	10
Insufficient space for image file	12
Destination Device Switching	13
Create a clone from an image file	14 and 17
Create a clone from a subset of an image file	16
Detect a corrupted (or changed) image file	24 and 25
Convert an image file from one format to	26
another	

Table 2. Omitted Test Cases

Unsupported Optional Feature	Cases omitted (not executed)
Create cylinder aligned clones	03, 15, 21 and 23
Device I/O error generator available	05, 11 and 18
Fill excess sectors on a clone acquisition	19
Fill excess sectors on a clone device	20, 21, 22 and 23

Some test cases have different forms to accommodate parameters within test assertions. These variations cover the acquisition interface to the source drive, the type of digital object acquired, image file format, and the way that sectors are hidden on a drive. Additional parameters that were varied between test cases were number of target devices (one device or two), interface to destination device(s), type(s) of hash algorithm calculated, method for segmenting image files, and media drive file system type.

The following source access interfaces were tested: ATA28, ATA48, SATA28, SATA48, ESATA, SCSI, FW, and USB. These are noted as variations on test cases DA-01, DA-06, and DA-08.

The following digital source types were tested: partitions (EXT2, Linux swap, FAT12, FAT16, FAT32, FAT32X, NTFS, OSX or HFS, OSXC or HFS+ case sensitive, OSXCJ or HFS+ case sensitive journaled, OSXJ or HFS+ journaled, and OSXU or UFS), 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 cases DA-02 and DA-07.

The following types of image file compression are supported by the tool: bzip2, gzip, and Ewcompress. These were tested as alternate image file formats and are noted as variations on test case DA-10.

Four methods for segmenting image files were available: Standard, Partition Aligned, Fixed Size, and Transport Media. These were tested and varied across test cases DA-06, DA-07, and DA-12.

The SMART tool allows a source drive to be acquired to more than one target clone device or image file set at a time. Except for two instances, all acquisitions and restores involved the use of one target device or image file set. Test cases DA-01-ATA28 and DA-01-ATA28-CLONE2 document the acquisition of an ATA28 device to two target clone devices. Test cases DA-06-SATA28 and DA-06-SATA28-IMAGE2 document the acquisition of a SATA28 device to two destination image file sets.

The following hash algorithms were used in testing: md5 and sha1.

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.

See section 2 for a discussion of source access interface and digital source. See section 4 for more information on execution environment.

Table 3. Assertions Tested

Assertions Tested	Tests	Anomaly
AM-01 The tool uses access interface SRC-AI to access	63	
the digital source.		
AM-02 The tool acquires digital source DS.	63	
AM-03 The tool executes in execution environment XE.	104	
AM-04 If clone creation is specified, the tool	27	
creates a clone of the digital source.		
AM-05 If image file creation is specified, the tool	36	
creates an image file on file system type FS.		
AM-06 All visible sectors are acquired from the	60	3.1 and
digital source.		3.4
AM-07 All hidden sectors are acquired from the	3	3.3
digital source.		
AM-08 All sectors acquired from the digital source	60	3.1 and
are acquired accurately.		1.1
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		
fill in the destination object in place of the		
inaccessible data.		
AO-01 If the tool creates an image file, the data	33	
represented by the image file are the same as the		
data acquired by the tool.		
AO-02 If an image file format is specified, the tool	3	
creates an image file in the specified format.		
AO-04 If the tool is creating an image file and there	4	
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 multifile image of a	33	
requested size then all the individual files shall be		
no larger than the requested size.	0	
AO-06 If the tool performs an image file integrity	2	
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.	2	
AO-07 If the tool performs an image file integrity	2	
check on an image file that has been changed since		

Assertions Tested	Tests	Anomaly
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.	2	
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 are the same as the acquired data in the source image file.	6	
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.	1	
AO-11 If requested, a clone is created during an acquisition of a digital source.	27	
AO-12 If requested, a clone is created from an image file.	31	3.1
AO-13 A clone is created using access interface DST-AI to write to the clone device.	58	
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.	56	3.1
AO-16 If a subset of an image or acquisition is specified, all the subset is cloned.	1	
AO-17 If requested, any excess sectors on a clone destination device are not modified.	28	
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.	2	
AO-20 If a truncated clone is created, the tool notifies the user.	2	
A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source.	8	
A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	104	3.1
AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	63	1.1

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 runtime 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 (note: in several test cases the test environment was observed to have modified the source. These cases were rerun with the use of a write

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

Table 4. Assertions Not Tested

Assertions Not Tested

AO-03 If there is an error while writing the image file, the tool notifies the user.

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

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

3.1 Swap Partitions

Upgrading the version of the SMART Linux live CD from the version shipped to NIST by the vendor resulted in an environment that appeared to be SMART Linux, but where the treatment of Linux swap files was misconfigured. Such an environment can under certain conditions manifest anomalies with acquiring Linux swap partitions. This Linux environment displayed anomalies with the following cases: DA-02-SWAP, DA-02-SWAP-ALT, DA-07-SWAP, and DA-14-SWAP. CFTT has verified that these swap anomalies are not present in either the original version of the SMART Linux live CD shipped to NIST by the vendor (May 6, 2010) or the current version of SMART Linux (August 2011).

Test cases DA-02-SWAP and DA-14-SWAP both involved creating a clone of a swap partition on a destination swap partition that was the same size as the source. In both cases, the clone operations aborted without copying the last seven sectors of the source partition.

In test case DA-02-SWAP-ALT, which acquired a source swap partition to a larger destination swap partition, and test case DA-07-SWAP, where a swap partition was acquired to an image file, the clone and imaging operations completed without error. However, the last seven sectors of the clone (DA-02-SWAP-ALT) and the image file (DA-07-SWAP) differed from the source. The tool wrote zeros for these last seven sectors in place of the appropriate source drive content.

These behaviors related to swap seemed to be connected to the execution environment, the SMART Linux live CD version 2011-01, mounting available swap partitions. These

behaviors were not observed in alternate execution environments that had been configured to disable mounting of swap.

3.2 Source Media Modified by Test Environment

The execution environment, the SMART Linux live CD version 2011-01, not the tool, modified the source drive in test cases DA-02-F12, DA-02-F32, and DA-06-ATA28. The source drive, 01-IDE, contained an NTFS and several other file systems. In each case 88 sectors belonging to the NTFS file system journal were changed. Since the execution environment's changes were limited to the NTFS partition, the accuracy of the DA-02-F12 and DA-02-F32 acquisitions (acquisitions of the drive's FAT 12 and FAT 32 partitions) were not affected. However, in DA-06-ATA28 this resulted in 88 sectors differing between the image file created by the tool and the original unaltered source. When the test cases were rerun with the source attached via hardware write block (DA-02-F12-WB, DA-02-F32-WB and DA-06-ATA28-WB), the tests completed without anomaly.

It should be noted that in testing SMART, other drives that contained NTFS file systems were imaged but were not modified by the SMART Linux environment. This behavior of SMART Linux changing the source was only seen with the NTFS file system on drive 01-IDE.

3.3 Acquisition of HPA and DCO

The tool does not remove either *Host Protected Areas* (HPAs) or DCOs. However, the Linux test environment automatically removed the HPA on the test drives, allowing the tool to image sectors hidden by an HPA. The tool did not acquire sectors hidden by a DCO (DA-08-DCO).

3.4 Readable Sectors Near Faulty Sectors

In test case DA-09 the tool was used to image a hard drive with 35 faulty sectors to a clone. In the clone, faulty sectors were replaced with zeros, as were some readable sectors near the faulty sectors. The number of readable sectors missed varied between 6 and 206 sectors.

4 Testing Environment

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

4.1 Execution Environment

SMART executes in the Linux environment. All test cases were executed with the SMART Linux live CD version 2011-01 as the test execution environment.

4.2 Test Computers

Three test computers were used. Bold lettering indicates the computer name (unique identifier), and is followed by the computer's configuration.

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 Radeon™ 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

Max 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

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.

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.

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 second drive of the same size with the same content as the faulty sector drive, but with no faulty sectors serves as a reference drive for images made from the faulty 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 case details.

5.1 Test Results Report Key

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

5.2 Test Details

5.2.1 DA-01-ATA28

Test Case DA-	01-ATA28 Smart Version 2010/11/03
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.

```
Test Case DA-01-ATA28 Smart Version 2010/11/03
             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
             AO-13 A clone is created using access interface DST-AI to write to the
             clone device.
             AO-14 If an unaligned clone is created, each sector written to the clone is
             accurately written to the same disk address on the clone that the sector
             occupied on the digital source.
             AO-17 If requested, any excess sectors on a clone destination device are
             not modified.
             AO-22 If requested, the tool calculates block hashes for a specified block
             size during an acquisition for each block acquired from the digital source.
             AO-23 If the tool logs any log significant information, the information is
             accurately recorded in the log file.
             AO-24 If the tool executes in a forensically safe execution environment,
             the digital source is unchanged by the acquisition process.
Tester Name: brl
Test Host:
             McGarrett
Test Date:
             Tue Feb 1 14:10:45 2011
             src(41) dst (02-IDE) other (none)
Drives:
Source
             src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >
             src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C >
Setup:
             78125000 total sectors (40000000000 bytes)
             65534/015/63 (max cyl/hd values)
             65535/016/63 (number of cyl/hd)
             IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355)
              N Start LBA Length Start C/H/S End C/H/S boot Partition type
              1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS
              1 078107967 sectors 39991279104 bytes
             ===== Destination drive setup ======
Log
Highlights:
             78165360 sectors wiped with 2
             ===== Comparison of original to clone drive ======
             Sectors compared: 78125000
             Sectors match: 78125000
             Sectors differ: 0
             Bytes differ: 0
             Diffs range
             Source (78125000) has 40360 fewer sectors than destination (78165360)
             Zero fill: 0
             Src Byte fill (41): 0
             Dst Byte fill (02): 40360
             Other fill: 0
             Other no fill: 0
             Zero fill range:
             Src fill range:
             Dst fill range: 78125000-78165359
             Other fill range:
             Other not filled range:
             O source read errors, O destination read errors
             ===== Tool Settings: =====
             dst-interface ATA28
             OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
             2010 i686 GNU/Linux
             ====== Excerpt from SMART log =======
```

MD5 Span Hashes total span hash: 0a6a8ef78bdc14e2026710d8ccb5607c IO Summary:(Time: Tue Feb 1 14:52:44 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb 40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log ====== Rehash (SHA1) of source: 15CAAlA307271160D8372668BF8A03FC45A51CC9 Results: Assertion and Expected Result	Test Case DA-	01-ATA28 Smart Version 2010/11/03	
IO Summary:(Time: Tue Feb 1 14:52:44 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb 40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log ======= Rehash (SHA1) of source: 15CAAlA307271160D8372668BF8A03FC45A51CC9 Results: Assertion and Expected Result		-	
Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb 40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log ======= Rehash (SHA1) of source: 15CAA1A307271160D8372668BF8A03FC45A51CC9 Results: Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-11 A clone is created during acquisition. as expected AO-12 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 tested AO-23 Logged information is correct. as expected		total span hash: 0a6a8ef78bdc14e2026710d8ccb5	607c
Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb 40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log ======= Rehash (SHA1) of source: 15CAA1A307271160D8372668BF8A03FC45A51CC9 Results: Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-11 A clone is created during acquisition. as expected AO-12 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 tested AO-23 Logged information is correct. as expected		TO Commonwork (Time: The Ech 1 14:E2:44 2011)	
### Actual Result ### Actual Re		• •	
40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log ======= Rehash (SHA1) of source: 15CAAlA307271160D8372668BF8A03FC45A51CC9 Results: Assertion and 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 tested AO-23 Logged information is correct. as expected			
Results: Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-04 A clone is created. AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AM-01 A clone is created during acquisition. as expected AM-01 A clone is created during acquisition. as expected AM-01 A clone is created during acquisition. as expected AM-01 A clone is created during acquisition. as expected AO-11 A clone is created during acquisition. as expected AO-12 Clone created using interface AI. as expected AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected			
Results: Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-08 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 tested AO-23 Logged information is correct. as expected		the state of the s	=
Results: Assertion and Expected Result Actual Result		*	
Results: Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-11 A clone is created during acquisition. as expected AO-13 Clone created using interface AI. as expected AO-14 An unaligned clone is created. as expected AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected		===== Source drive rehash =====	
Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-11 A clone is created during acquisition. as expected AO-13 Clone created using interface AI. as expected AO-14 An unaligned clone is created. as expected AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected		Rehash (SHA1) of source: 15CAA1A307271160D8372	668BF8A03FC45A51CC9
Assertion and Expected Result AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-04 A clone is created. as expected AM-06 All visible sectors acquired. as expected AM-08 All sectors accurately acquired. as expected AO-11 A clone is created during acquisition. as expected AO-13 Clone created using interface AI. as expected AO-14 An unaligned clone is created. as expected AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected			
AM-01 Source acquired using interface AI. as expected AM-02 Source is type DS. as expected AM-03 Execution environment is XE. as expected AM-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 tested AO-23 Logged information is correct. as expected	Results:		
AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. as expected AO-23 Logged information is correct. as expected		<u> </u>	
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 tested AO-23 Logged information is correct. as expected			
AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct. as expected			-
AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. 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 tested AO-23 Logged information is correct. as expected			-
AM-08 All sectors accurately acquired. 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 tested AO-23 Logged information is correct. 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 tested AO-23 Logged information is correct. 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 tested AO-23 Logged information is correct. 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 tested AO-23 Logged information is correct. as expected			-
AO-17 Excess sectors are unchanged. as expected AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected)	*
AO-22 Tool calculates hashes by block. option not tested AO-23 Logged information is correct. as expected		Ÿ	-
AO-23 Logged information is correct. as expected		ÿ	-
			-
AO-24 Source is unchanged by acquisition. as expected			-
		AU-24 Source is unchanged by acquisition.	as expected
Analysis: Expected results achieved	Analysis:	Expected results achieved	

5.2.2 DA-01-ATA28-CLONE2

Togt Cago DA-	01_ATA29_CTONE2_Smart_Vorgion_2010/11/02
Case	01-ATA28-CLONE2 Smart Version 2010/11/03 DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source.
	AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Tue Feb 1 14:12:17 2011
Drives:	src(41) dst (4E-SATA) other (none)
Source	src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >
Setup:	src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (4000000000 bytes) 65534/015/63 (max cyl/hd values)
Log	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 0000000000 0000/000/00 0000/000/00 00
Highlights:	156301488 sectors wiped with 4E
	====== Comparison of original to clone drive ====== Sectors compared: 78125000 Sectors match: 78125000 Sectors differ: 0 Bytes differ: 0 Diffs range Source (78125000) has 78176488 fewer sectors than destination (156301488)
	Zero fill: 0 Src Byte fill (41): 0 Dst Byte fill (4E): 78176488 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 78125000-156301487
	Other fill range: Other not filled range: O source read errors, O destination read errors
	===== Tool Settings: ===== dst-interface ESATA

Test Case DA-	01-ATA28-CLONE2 Smart Version 2010/11/03	
TODO CADO DII	or mine chomb back verbien here, it, os	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log ======	
	MD5 Span Hashes total span hash: 0a6a8ef78bdc14e2026710d8ccb5	607c
	IO Summary:(Time: Tue Feb 1 14:52:44 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb 40,000,000,000 bytes written to /dev/sde ======= End of Excerpt from SMART log =======	=
Results:	===== Source drive rehash ===== Rehash (SHA1) of source: 15CAA1A307271160D8372	668BF8A03FC45A51CC9
1100 0100	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected

5.2.3 DA-01-ATA48

Test Case DA-	01-ATA48 Smart Version 2010/11/03
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are
	not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Tue Feb 1 08:37:39 2011
Drives:	src(4C) dst (32-IDE) other (none)
Source	src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF >
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-WMAMR1031111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Destination drive setup ===== 488397168 sectors wiped with 32
	====== 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 (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (32): 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: Other not filled range: 0 source read errors, 0 destination read errors
	===== Tool Settings: ===== dst-interface ATA48

Test Case DA-	01-ATA48 Smart Version 2010/11/03	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log ======	
	SHA1 Span Hashes total span hash: 8ff620d2 bedccafe 8412edaa d IO Summary:(Time: Tue Feb 1 13:07:38 2011) Bytes Read: 200,049,647,616 200,049,647,616 bytes written to /dev/sdb ====== End of Excerpt from SMART log ====== ==== Source drive rehash ===== Rehash (SHA1) of source: 8FF620D2BEDCCAFE8412E	=
Results:		
11054105	Assertion and 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 tested
	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-ESATA

Test Case DA-	01-ESATA Smart Version 2010/11/03
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the
	digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Mon Jan 31 11:15:56 2011
Drives:	src(07-SATA) dst (50-IDE) other (none)
Source	src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E >
Setup:	<pre>src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B > 156301488 total sectors (80026361856 bytes) Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044)</pre>
	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 50
	===== 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
	===== Tool Settings: ===== dst-interface ATA28
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	SHA1 Span Hashes total span hash: 655e9bdd b36a3f9c 5c4cc8bf 32b8c5b4 1af9f52e MD5 Span Hashes total span hash: 2eaf712dad80f66e30dea00365b4579b
	IO Summary:(Time: Mon Jan 31 15:21:43 2011)

Test Case DA-	01-ESATA Smart Version 2010/11/03	
	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to /dev/sda ====== End of Excerpt from SMART log =======	_
	====== Source drive rehash ====== Rehash (SHA1) of source: 655E9BDDB36A3F9C5C4CC	
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		<u>. </u>
Analysis:	Expected results achieved	

5.2.5 DA-01-FW

Test Case DA-	01-FW Smart Version 2010/11/03
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.
	${ t AO-13~A}$ clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Fri Jan 28 10:02:20 2011
Drives:	src(63-FU2) dst (84-FU2) other (none)
Source	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >
Setup:	<pre>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 0F extended 3 S 000000063 113097537 0261/001/01 1023/254/63 0B Fat32 4 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>
T 0.0	===== Destination drive setup ======
Log 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: 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
	===== Tool Settings: =====

	dst-interface FW		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:	:02 U
	====== Excerpt from SMART log ======		
	SHA1 Span Hashes total span hash: f7069edc beac863c 88deced8 2	2159f22d a96be99b	
	IO Summary:(Time: Fri Jan 28 15:40:49 2011) Bytes Read: 60,060,155,904 60,060,155,904 bytes written to /dev/sdg		
	====== End of Excerpt from SMART log ======	:=	
Results:	====== End of Excerpt from SMART log ====== ===== Source drive rehash ===== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC		
Results:	===== Source drive rehash ===== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC		
esults:	===== Source drive rehash =====	ED82159F22DA96BE99B	
esults:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI.	Actual Result as expected	
esults:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result	ED82159F22DA96BE99B	
esults:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	Actual Result as expected as expected	
esults:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected as expected as expected as expected	
esults:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	Actual Result as expected as expected as expected as expected as expected as expected	
Results:	===== Source drive rehash ====== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	Actual Result as expected	
Results:	===== Source drive rehash ===== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	Actual Result as expected	
esults:	===== Source drive rehash ===== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	Actual Result as expected	
Results:	===== Source drive rehash ===== Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	Actual Result as expected	
Results:	Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	Actual Result as expected	
Results:	Rehash (SHA1) of source: F7069EDCBEAC863C88DEC Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected	

5.2.6 DA-01-SATA28

Test Case DA-	01-SATA28 Smart Version 2010/11/03
Case	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the
	digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital
	source. AO-13 A clone is created using access interface DST-AI to write to the
	clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Jan 28 09:22:17 2011
Drives:	src(07-SATA) dst (04-SATA) other (none)
Source	src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E >
Setup:	<pre>src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B > 156301488 total sectors (80026361856 bytes) Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 4
	====== 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
	===== Tool Settings: ===== dst-interface SATA28
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	SHA1 Span Hashes total span hash: 655e9bdd b36a3f9c 5c4cc8bf 32b8c5b4 1af9f52e
	IO Summary:(Time: Fri Jan 28 12:13:04 2011) Bytes Read: 80,026,361,856 80,026,361,856 bytes written to /dev/sdb

Test Case DA-	01-SATA28 Smart Version 2010/11/03	
	====== End of Excerpt from SMART log ======	=
	===== Source drive rehash =====	000-0-5-440-50-
	Rehash (SHA1) of source: 655E9BDDB36A3F9C5C4CC	8BF32B8C5B41AF9F52E
Results:		
Rebuieb	Assertion and 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 tested
	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-SATA48

Togt Cago DA-	01-SATA48 Smart Version 2010/11/03
Case DA-	DA-01 Acquire a physical device using access interface AI to an unaligned
Summary:	clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source.
	AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Mon Jan 31 09:15:59 2011
Drives:	src(OD-SATA) dst (46-SATA) other (none)
Source	src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 >
Setup:	<pre>src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411E40C9 ></pre>
	488397168 total sectors (250059350016 bytes) 30400/254/63 (max cyl/hd values)
	30400/254/63 (max cyl/hd values) 30401/255/63 (number of cyl/hd)
	Model (WDC WD2500JD-22F) serial # (WD-WMAEH2678216)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 488375937 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 488375937 sectors 250048479744 bytes
Log Highlights:	===== Destination drive setup ===== 488397168 sectors wiped with 46
	===== Comparison of original to clone drive =====
	Sectors compared: 488397168
	Sectors match: 488397168
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	O source read errors, O destination read errors
	===== Tool Settings: =====
	dst-interface SATA48
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	SHA1 Span Hashes total span hash: baad80e8 781e55f2 e3ef528c a73bd41d 228c1377
	IO Summary:(Time: Mon Jan 31 15:22:19 2011)

Test Case DA-	01-SATA48 Smart Version 2010/11/03	
	Bytes Read: 250,059,350,016	
	250,059,350,016 bytes written to /dev/sdb	
	====== End of Excerpt from SMART log ======	=
	===== Source drive rehash =====	
	Rehash (SHA1) of source: BAAD80E8781E55F2E3EF5	28CA73BD41D228C1377
Results:	Annualism and Demontral Demolt	3 mt 2 Da 24
	Assertion and 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 tested
	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-01-SCSI

Test Case DA-01-SCSI Smart Version 2010/11/03 Case 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-05 All visible sectors are acquired from the digital source. AM-06 All visible sectors are acquired from the digital source are acquired accuratel 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 bloc size during an acquisition for each block acquired from the digital source AO-23 If the tool logs any log significant information, the information i 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: Drl Test Host: Max Test Date: Mon Jan 31 09:36:19 2011 Drives: src(E0) dst (CC) other (none)
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-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 accuratel 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 bloc size during an acquisition for each block acquired from the digital source AO-23 If the tool logs any log significant information, the information i accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: brl Test Host: Max Test Date: Mon Jan 31 09:36:19 2011 Drives: src(E0) dst (CC) other (none)
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 accuratel 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 bloc size during an acquisition for each block acquired from the digital source AO-23 If the tool logs any log significant information, the information i accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: brl Test Host: Max Test Date: Mon Jan 31 09:36:19 2011 Drives: src(EO) dst (CC) other (none)
Test Host: Max Test Date: Mon Jan 31 09:36:19 2011 Drives: src(E0) dst (CC) other (none)
Test Host: Max Test Date: Mon Jan 31 09:36:19 2011 Drives: src(E0) dst (CC) other (none)
Test Date: Mon Jan 31 09:36:19 2011 Drives: src(E0) dst (CC) other (none)
Drives: src(E0) dst (CC) other (none)
Source src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 >
Setup: src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436)
Log ===== Destination drive setup ===== 71687370 sectors wiped with CC
===== Comparison of original to clone drive =====
Sectors compared: 17938985
Sectors match: 17938985
Sectors differ: 0
Bytes differ: 0 Diffs range
Source (17938985) has 53748385 fewer sectors than destination (71687370)
Zero fill: 0
Src Byte fill (E0): 0
Dst Byte fill (CC): 53748385
Other fill: 0 Other no fill: 0
Zero fill range:
Src fill range:
Dst fill range: 17938985-71687369
Other fill range:
Other not filled range:
0 source read errors, 0 destination read errors
===== Tool Settings: ===== dst-interface SCSI
OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
====== Excerpt from SMART log ======
SHA1 Span Hashes

Test Case DA-01-SCSI Smart Version 2010/11/03			
	total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82		
	-		
	IO Summary:(Time: Mon Jan 31 11:52:46 2011)		
	Bytes Read: 9,184,760,320		
	9,184,760,320 bytes written to /dev/sdf		
	====== End of Excerpt from SMART log ======	=	
	===== Source drive rehash ====== Rehash (SHA1) of source: 4A6941F1337A8A22B10FC844B4D7FA6158BECB82		
	Remasm (SHAI) OI SOUTCE: 4A6941F133/A8A22B10FC	044B4D/FA0158BECB82	
Results:			
TODALOD:	Assertion and 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 tested	
	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-01-USB

Test Name: Dr.	J.2.3 DA-01-03D			
Summary: clone.	Test Case DA-			
Amenations: Am-O1 The tool uses access interface SRC-AI to access the digital source. AM-O2 the tool acquires digital source DS. AM-O3 the tool executes in execution environment XE. AM-O4 fit clone creation is specified, the tool creates a clone of the digital source. AM-O8 All veible sectors are acquired from the digital source. AM-O8 All veible sectors are acquired from the digital source are acquired accurately. AO-O11 ff requested, a clone is created during an acquisition of a digital source. AO-O14 ff an unaligned clone is created. Access and the clone device. AO-O14 ff an unaligned clone is created, each sector written to the clone device. AO-O17 if requested, any excess sectors on a clone destination device are not modified. AO-O22 if requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-O23 if the tool logs any log significant information, the information is accurately recorded in the log file. AD-O24 if the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: br1 Test Name: br1 Test Name: Tue Feb 1 09:05:07 2011 Drives: src(63-FU2) data (84-FU2) other (nome) Source Setup: src hash (SMA): < TFOSEDCHEARCHSG-3CHEDE2159F22DA96EE99B > src hash (MMD): < SE21/BC4FA4F3D184021D249B05AA9EC > 1173044922 total sectors (6000015904 bytes) Model (SD051X) serial # () N Start LSA Length Start C/H/S End C/H/S boot Partition type 1 F 000000063 004159202 000070001/01 0236/2364/63 Doot 06 Fatife 2 X 004159265 113097537 0261/0007001 01023/2364/63 Doot 06 Fatife 2 X 004159265 113097537 acctors \$1000000000000000000000000000000000000				
Test Host:		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,		
Test Host:		one digital source is anomalized by one do-darkers become		
Test Date: Tue Feb 1 09:05:07 2011 Drives: src(63-FU2) dst (84-FU2) other (none) Source src hash (SHA1): < F7069EDCBEAC863C8BDECED82159F22DA96BE99B > 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 00000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16 2 X 004192965 113097537 0261/001/01 1023/254/63 OF extended 3 S 000000063 113097537 0261/001/01 1023/254/63 OB Fat32 4 S 000000000 000000000 0000/0000/00 0000/0000/00 omempty entry 5 P 000000000 000000000 0000/000/00 0000/000/00 00		brl		
Drives: src(63-FU2) dst (84-FU2) other (none) Source src hash (SHA1): < F7069BDCBEAC863C88DECED82159F22DA96BE99B > str 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 00000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16 2 X 004192965 113097600 0261/000/01 1023/254/63 Bot 06 Fat16 2 X 004192965 113097600 0261/000/01 1023/254/63 Bo Fat32 4 S 00000000 000000000 0000/000/00 0000/000/00 00	Test Host:			
Source				
Setup: 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 004192995 113097650 0261/000/01 1023/254/63 0F extended 3 S 000000003 013097537 0261/001/01 1023/254/63 0F extended 3 S 000000000 000000000 0000/000/00 0000/000/00 00				
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 0B Fat32 4 S 0000000063 113097537 0261/001/01 1023/254/63 0B Fat32 4 S 000000000 000000000 0000/000/00 0000/000/00 00		, ,		
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: 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:		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 00000000 000000000 0000/000/00 0000/000/00 00		
===== 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:	_	=		
===== Tool Settings: =====	mightights.	===== 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-01-USB Smart Version 2010/11/03		
	dst-interface USB	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux ======= Excerpt from SMART log =======	SMP Fri Apr 16 08:10:02 UTC
	SHA1 Span Hashes total span hash: f7069edc beac863c 88deced8 2159f22d a96be99b IO Summary:(Time: Tue Feb 1 12:27:14 2011) Bytes Read: 60,060,155,904 60,060,155,904 bytes written to /dev/sdg ======= End of Excerpt from SMART log ======= Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B	
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	
	AM-01 Source acquired using interface Ar.	as expected
	AM-02 Source is type DS.	as expected as expected
	AM-02 Source is type DS.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected as expected as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	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.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	as expected option not tested
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected

5.2.10 DA-02-CF

Test Case DA-	02-CF Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.
	$\Delta M-04$ If clone creation is specified, the tool creates a clone of the digital source.
	AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Wed Feb 2 12:27:40 2011
Drives:	src(C1-CF) dst (C2-CF) other (none)
Source	src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B >
Setup:	<pre>src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 > 503808 total sectors (257949696 bytes) Model (CF) serial # ()</pre>
	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 778135908 1141509631 0357/116/40 0357/032/45 Boot 72 other 2 p 168689522 1936028240 0288/115/43 0367/114/50 Boot 65 other 3 p 1869881465 1936028192 0366/032/33 0357/032/43 Boot 79 other 4 p 2885681152 000055499 0372/097/50 0000/010/00 Boot 0D other 1 1141509631 sectors 584452931072 bytes 2 1936028240 sectors 991246458880 bytes 3 1936028192 sectors 991246434304 bytes 4 000055499 sectors 28415488 bytes
Log Highlights:	===== Destination drive setup ===== 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
	===== Tool Settings: ===== dst-interface USB
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	SHA1 Span Hashes total span hash: 5b823517 8df99fa3 07430c08 8f817466 06638a0b

Test Case DA-02-CF Smart Version 2010/11/03		
	IO Summary: (Time: Wed Feb 2 13:28:33 2011) Bytes Read: 257,949,696 257,949,696 bytes written to /dev/sde ====== End of Excerpt from SMART log ====== ==== Source drive rehash ===== Rehash (SHA1) of source: 5B8235178DF99FA307430	
Results:		,
	Assertion and 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
	A0-17 Excess sectors are unchanged.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		<u> </u>
Analysis:	Expected results achieved	

5.2.11 DA-02-EXT2

J.Z. I I	DA-02-EX12		
Test Case DA-	02-EXT2 Smart Version 2010/11/03		
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.		
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source.		
	AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.		
	AO-13 A clone is created using access interface DST-AI to write to the clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are not modified.		
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	WoFat		
Test Date:	Thu Feb 3 15:46:46 2011		
Drives:	src(43) dst (49-SATA) other (none)		
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>		
secup.	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X		
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes		
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
	43ext2-md5sum 5371075583 C7A84DE9ACBCB05463604CE8823D0874 43ext2-shalsum 5371075583 283BCC32DE892C12C37698AF7E38703619E57F57		
	Excess destination partition sectors hash:		
	Excess destination partition sectors hash: SHA1 5371075584 - 5872817663 = 58344A633C5DF644ECC51E253BBC26E29BECF224 -		
Log	===== Destination drive setup =====		
Highlights:	156301488 sectors wiped with 49		
·			

```
Test Case DA-02-EXT2 Smart Version 2010/11/03
               ===== Comparison of original to clone drive ======
              Sectors compared: 10490382
              Sectors match: 10490382
              Sectors differ: 0
              Bytes differ: 0
              Diffs range:
              Source (10490382) has 979965 fewer sectors than destination (11470347)
               Zero fill: 30839
              Src Byte fill (43): 0
              Dst Byte fill (49): 946245
               Other fill: 61
               Other no fill: 2820
              Zero fill range: 10502147, 10502193, 10502196-10502707,
              10518531,\ 10518577,\ 10518580-10519091,\ 10534915,\ 10534961,
               10534964 - 10535475 \,, \ 10551299 \,, \ 10551345 \,, \ 10551348 - 10551859 \,,
              10567683, 10567729, 10567732-10568243, 10584067, 10584113,
              10584116-10584627, 10600451, 10600497. . . + 27753 more
              Src fill range:
              Dst fill range: 10490382-10502145, 10502708-10518529,
              10519092-10534913, 10535476-10551297, 10551860-10567681,
              10568244-10584065, 10584628-10600449, 10601012-10616833,
               10617396 - 10633217\,,\ 10633780 - 10649601\,,\ 10650164 - 10665985\,,
              10666548-10682369, 10682932-10698753, 10699316-10715137,
              10715700-10731521, 10732084-10747905, 10748468-10764289,
              10764852 - 10780673, \ 10781236 - 10797057, \ 10797620 - 10813441. \ . \ . \ + \ 633863 \ \texttt{more}
               Other fill range: 10502195, 10518579, 10534963, 10551347,
              10567731, 10584115, 10600499, 10616883, 10633267, 10649651,
              10666035, 10682419, 10698803, 10715187, 10731571, 10747955,
              10764339, 10780723, 10797107, 10813491. . . + 41 more
              Other not filled range: 10502146, 10502148-10502192,
              10502194, 10518530, 10518532-10518576, 10518578, 10534914,
              10534916-10534960\,,\ 10534962\,,\ 10551298\,,\ 10551300-10551344\,,
               10551346, 10567682, 10567684-10567728, 10567730, 10584066,
              10584068-10584112, 10584114, 10600450, 10600452-10600496. . . + 2492 more
              run start Thu Feb 3 16:23:38 2011
              run finish Thu Feb 3 16:27:23 2011
               elapsed time 0:3:45
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ===== Excerpt from SMART log ======
              SHA1 Span Hashes
                total span hash: 283bcc32 de892c12 c37698af 7e387036 19e57f57
               IO Summary: (Time: Thu Feb 3 16:04:12 2011)
              Bytes Read: 5,371,075,584
              5,371,075,584 bytes written to /dev/sda9
              ====== End of Excerpt from SMART log ======
              Excess destination partition sectors hash:
              SHA1 5371075584 - 5872817663 = 58344A633C5DF644ECC51E253BBC26E29BECF224 -
               ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
                Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.12 DA-02-F12

J.Z. 1Z	DA-02-1 12
	02-F12 Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host: Test Date:	McGarrett Thu Feb 3 11:20:53 2011
Drives:	src(01-IDE) dst (4D-SATA) other (none)
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >
Setup:	src hash (MD5): < F458F673894753FA6A0EC88BEC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0F Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0I Fat12 4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401992 1023/001/01 1023/254/63 05 extended 11 S 000000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 025222050 004209030 1023/001/01 1023/254/63 05 extended 15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 4D ====== Comparison of original to clone drive ======
	- -

Test Case DA-	02-F12 Smart Version 2010/11/03	
	Sectors compared: 32067 Sectors match: 32067 Sectors differ: 0 Bytes differ: 0 Diffs range: run start Thu Feb 3 15:08:39 2011 run finish Thu Feb 3 15:08:41 2011 elapsed time 0:0:2 Normal exit	
	===== Tool Settings: ===== dst-interface SATA28	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux	
	====== Excerpt from SMART log ======	
	SHA1 Span Hashes total span hash: f8b72b65 436de3bd 394acff7 1d405d03 89c0e9b7	
	IO Summary: (Time: Thu Feb 3 14:50:10 2011) Bytes Read: 16,418,304 16,418,304 bytes written to /dev/sda5 ======= End of Excerpt from SMART log ========	
	====== Source drive rehash ====== Rehash (SHA1) of source: A96A7193E1D9C270587B2	BE7098638AC048221D1
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	source changed
		·
Analysis:	Expected results not achieved	

5.2.13 DA-02-F12-WB

Test Case DA-	02-F12-WB Smart Version 2010/11/03		
Case	DA-02 Acquire a digital source of type DS to an unaligned clone.		
	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 News:	bol		
Tester Name: Test Host:	brl WoFat		
Test Date:	Mon Mar 14 11:13:53 2011		
Drives:	src(01-IDE) dst (46-SATA) other (none)		
Source Setup:	<pre>src hash (SHA1): < A48BB5665D6DC57C22DB68E2F73DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6ADEC8B8EC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (WD-WMAMC74171) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490445 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 12 X 025222050 004209030 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 027744255 1023/001/01 1023/254/63 05 extended 15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>		
Log Highlights:	===== Destination drive setup ====== 40397168 sectors wiped with 46 ====== Comparison of original to clone drive ======		

Test Case DA-	02-F12-WB Smart Version 2010/11/03	
	Sectors compared: 32067	
	Sectors match: 32067	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	run start Mon Mar 14 10:40:57 2011	
	run finish Mon Mar 14 10:41:11 2011 elapsed time 0:0:14	
	Normal exit	
	NOTHER EXIC	
	===== Tool Settings: =====	
	dst-interface SATA28	
	Write Block: 3 FastBloc IDE	
	00. Times when to 0.6.20.01 was and a #20.77	CMD First 2000 16 00010000 7773
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux	
	====== Excerpt from SMART log ======	
	SHA1 Span Hashes	1405 100 00 0 01 5
	total span hash: f8b72b65 436de3bd 394acff7 1	d4U5dU3 89cUe9b/
	IO Summary: (Time: Mon Mar 14 11:23:08 2011)	
	Bytes Read: 16,418,304	
	16,418,304 bytes written to /dev/sda5	
	====== End of Excerpt from SMART log ======	=
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	
wiallars.	Expected results actived	

5.2.14 DA-02-F16

	02-F16 Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
	one digital podice is anomalized of one dequipition process.
Tester Name:	brl
Test Host:	WoFat
Test Date: Drives:	Thu Feb 3 11:32:04 2011 src(43) dst (49-SATA) other (none)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (4000000000 bytes) Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 00000063 002104515 1023/000/01 1023/254/63 05 extended 5 S 00000063 00210452 1023/001/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 00000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 00000063 008401992 1023/001/01 1023/254/63 0F fat32 10 X 014731605 010490445 1023/000/01 1023/254/63 0F fat32 10 X 014731605 010490445 1023/000/01 1023/254/63 0F fat32 11 S 00000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 00000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 00000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/000/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 0000000063 027712062 1023/001/01 1023/254/63 0F extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 49

```
Test Case DA-02-F16 Smart Version 2010/11/03
              ===== Comparison of original to clone drive ======
              Sectors compared: 2104452
              Sectors match: 2104452
              Sectors differ: 0
              Bytes differ: 0
              Diffs range:
              Source (2104452) has 208845 fewer sectors than destination (2313297)
              Zero fill: 0
              Src Byte fill (43): 0
              Dst Byte fill (49): 208845
              Other fill: 0
              Other no fill: 0
              Zero fill range:
              Src fill range:
              Dst fill range: 2104452-2313296
              Other fill range:
              Other not filled range:
              run start Fri Feb 4 11:11:47 2011
              run finish Fri Feb 4 11:12:32 2011
              elapsed time 0:0:45
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ====== Excerpt from SMART log =======
              SHA1 Span Hashes
               total span hash: 443ccec9 a22f726d af6ce384 817151c8 3b3ebc8b
              IO Summary: (Time: Fri Feb 4 10:56:16 2011)
              Bytes Read: 1,077,479,424
              1,077,479,424 bytes written to /dev/sda6
              ====== End of Excerpt from SMART log =======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
               Assertion and 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
                                                              as expected
               AO-13 Clone created using interface AI.
               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 tested
               AO-23 Logged information is correct.
                                                              as expected
               AO-24 Source is unchanged by acquisition.
                                                              as expected
Analysis:
             Expected results achieved
```

5.2.15 DA-02-F32

J.Z. 1J	DA-02-1 32
Test Case DA-	02-F32 Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name: Test Host:	brl McGarrett
Test Date:	Fri Feb 4 13:59:45 2011
Drives:	src(01-IDE) dst (4D-SATA) other (none)
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >
Setup:	src hash (MD5): < F458F673894753FA6A0EC88BEC63848E > 78165360 total sectors (40020664320 bytes) Model (OBB-00JHCO) serial # (MD-WMMC74171) 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 rat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 OF ratended 3 S 000000063 000032067 1023/001/01 1023/254/63 OF ratended 4 X 000032130 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 7 S 000000063 004192965 1023/001/01 1023/254/63 OF extended 7 S 000000063 004192902 1023/001/01 1023/254/63 OF extended 9 S 000000063 008401995 1023/001/01 1023/254/63 OF rata2 0 X 014731605 010490445 1023/000/01 1023/254/63 OF rata2 10 X 014731605 010490445 1023/000/01 1023/254/63 OF extended 11 S 000000063 004208967 1023/001/01 1023/254/63 OF extended 12 X 025222050 004209030 1023/001/01 1023/254/63 SE extended 13 S 000000063 004208967 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 15 S 000000063 027744192 1023/001/01 1023/254/63 OF extended 15 S 000000000 000000000 0000/000/00 0000/000/00 00
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 4D ====== Comparison of original to clone drive =====
	<u> </u>

Test Case DA-	02-F32 Smart Version 2010/11/03		
	Sectors compared: 8401932 Sectors match: 8401932 Sectors differ: 0 Bytes differ: 0 Diffs range: run start Fri Feb 4 14:30:23 2011 run finish Fri Feb 4 14:33:13 2011 elapsed time 0:2:50 Normal exit		
	===== Tool Settings: ===== dst-interface SATA28		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC	
	====== Excerpt from SMART log ======		
	SHA1 Span Hashes total span hash: b861d9e9 99f39750 b484ffb6 93ff69de c090c6b8		
	IO Summary: (Time: Fri Feb 4 14:16:24 2011) Bytes Read: 4,301,789,184 4,301,789,184 bytes written to /dev/sda8 ====== End of Excerpt from SMART log ======= ===== Source drive rehash ======		
Results:	Rehash (SHA1) of source: A96A7193E1D9C270587B2	BE7098638AC048221D1	
Resules.	Assertion and 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 tested	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	source changed	
Analysis:	Expected results not achieved		

5.2.16 DA-02-F32-WB

	02-F32-WB Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Mon Mar 14 10:55:49 2011
Drives:	<pre>src(01-IDE) dst (46-SATA) other (none) src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 ></pre>
Source Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >
	Model (OBB-O0JHCO) 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 0C Fat32X 2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/000/01 1023/254/63 05 extended 10 X 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 027744255 1023/001/01 1023/254/63 05 extended 15 S 000000063 027744192 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00
Log Highlights:	===== Destination drive setup ====== 40397168 sectors wiped with 46 ===== Comparison of original to clone drive ======

```
Test Case DA-02-F32-WB Smart Version 2010/11/03
              Sectors compared: 8401932
              Sectors match: 8401932
              Sectors differ: 0
              Bytes differ: 0
              Diffs range:
              Source (8401932) has 1044225 fewer sectors than destination (9446157)
              Zero fill: 0
              Src Byte fill (01): 0
              Dst Byte fill (46): 1044225
              Other fill: 0
              Other no fill: 0
              Zero fill range:
              Src fill range:
              Dst fill range: 8401932-9446156
              Other fill range:
              Other not filled range:
              run start Mon Mar 14 12:27:31 2011
              run finish Mon Mar 14 12:30:47 2011
              elapsed time 0:3:16
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              Write Block: 3 FastBloc IDE
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
               ====== Excerpt from SMART log =======
              SHA1 Span Hashes
               total span hash: b861d9e9 99f39750 b484ffb6 93ff69de c090c6b8
              IO Summary: (Time: Mon Mar 14 11:07:58 2011)
              Bytes Read: 4,301,789,184
              4,301,789,184 bytes written to /dev/sdb6
              ====== End of Excerpt from SMART log =======
Results:
               Assertion and 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 tested
               AO-23 Logged information is correct.
                                                              as expected
               AO-24 Source is unchanged by acquisition.
                                                             not checked
Analysis:
              Expected results achieved
```

5.2.17 DA-02-F32X

	02-F32X Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Feb 4 14:46:57 2011
Drives: Source	<pre>src(43) dst (49-SATA) other (none) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/0000/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0F extended 3 S 00000063 002104551 5023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/000/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/000/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00
Log Highlights:	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes 43F32x-md5sum 10742183424 5980CB0FA68E9862C65765DF50F00906 43F32x-shalsum 10742183423 379C1AC47AF956FC8C80389C2A7427A7F8FB4E89 43F32x-shalsum 10742183423 379C1AC47AF956FC8C80389C2A7427A7F8FB4E89 ===== Destination drive setup ===== 156301488 sectors wiped with 49

```
Test Case DA-02-F32X Smart Version 2010/11/03
              ===== Comparison of original to clone drive ======
              Sectors compared: 20980827
              Sectors match: 20980827
              Sectors differ: 0
              Bytes differ: 0
              Diffs range:
              Source (20980827) has 1558305 fewer sectors than destination (22539132)
              Zero fill: 0
              Src Byte fill (43): 0
              Dst Byte fill (49): 1558305
              Other fill: 0
              Other no fill: 0
              Zero fill range:
              Src fill range:
              Dst fill range: 20980827-22539131
              Other fill range:
              Other not filled range:
              run start Fri Feb 4 15:42:28 2011
              run finish Fri Feb 4 15:57:08 2011
              elapsed time 0:14:40
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ====== Excerpt from SMART log =======
              SHA1 Span Hashes
               total span hash: 379clac4 7af956fc 8c80389c 2a7427a7 f8fb4e89
              IO Summary: (Time: Fri Feb 4 15:21:36 2011)
              Bytes Read: 10,742,183,424
              10,742,183,424 bytes written to /dev/sda1
              ====== End of Excerpt from SMART log =======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
               Assertion and 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
                                                              as expected
               AO-13 Clone created using interface AI.
               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 tested
               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-02-NTFS

Test Case DA-	02-NTFS Smart Version 2010/11/03	
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is	
	accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Mon Feb 7 09:31:47 2011	
Drives: Source	<pre>src(43) dst (4D-SATA) other (none) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>	
Setup:	Src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0F extended 3 S 00000063 020980827 0000/001/01 1023/254/63 0F extended 3 S 00000063 00032067 1023/001/01 1023/254/63 0F extended 5 S 00000063 002104515 1023/000/01 1023/254/63 05 extended 5 S 00000063 00210452 1023/001/01 1023/254/63 05 extended 6 X 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 00000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended 9 S 00000063 008401995 1023/000/01 1023/254/63 05 extended 11 S 00000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 00000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 00000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 00000063 004208967 1023/001/01 1023/254/63 05 extended 12 X 025222050 004209030 1023/001/01 1023/254/63 05 extended 13 S 00000063 007712125 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00	
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 4D	

```
Test Case DA-02-NTFS Smart Version 2010/11/03
              ===== Comparison of original to clone drive ======
              Sectors compared: 27712062
              Sectors match: 27712062
              Sectors differ: 0
              Bytes differ: 0
              Diffs range:
              Source (27712062) has 32130 fewer sectors than destination (27744192)
              Zero fill: 0
              Src Byte fill (43): 0
              Dst Byte fill (4D): 32129
              Other fill: 0
              Other no fill: 1
              Zero fill range:
              Src fill range:
              Dst fill range: 27712062-27744190
              Other fill range:
              Other not filled range: 27744191
              run start Tue Feb 8 10:57:07 2011
              run finish Tue Feb 8 11:06:31 2011
              elapsed time 0:9:24
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ====== Excerpt from SMART log =======
              SHA1 Span Hashes
               total span hash: 73eb2d27 564b060d b796efb7 8694a10e 6b43d23f
              IO Summary: (Time: Mon Feb 7 14:33:03 2011)
              Bytes Read: 14,188,575,744
              14,188,575,744 bytes written to /dev/sdb11
              ====== End of Excerpt from SMART log =======
              Excess destination partition sectors hash:
              SHA1 14188575744 - 14205026303 = 827CF7F19C380D204700B479398C184664C662AE -
              ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
               Assertion and 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 tested
               AO-23 Logged information is correct.
                                                              as expected
               AO-24 Source is unchanged by acquisition.
                                                             as expected
            Expected results achieved
Analysis:
```

5.2.19 DA-02-OSX

Test Case DA-	02-OSX Smart Version 2010/11/03
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.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Thu Feb 24 09:46:22 2011
Drives:	src(4B-SATA) dst (1A-SATA) other (none)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 6 x 004194343 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Highlights:	234441648 sectors wiped with 1A ===== Comparison of original to clone drive ===== Sectors compared: 10485536 Sectors match: 10485536 Sectors differ: 0 Bytes differ: 0 Diffs range: Source (10485536) has 224 fewer sectors than destination (10485760) Zero fill: 7 Src Byte fill (4B): 0 Dst Byte fill (1A): 216 Other fill: 0 Other no fill: 1

Test Case DA-02-OSX Smart Version 2010/11/03		
	Src fill range: Dst fill range: 10485536-10485751 Other fill range: Other not filled range: 10485758 run start Thu Feb 24 10:10:33 2011 run finish Thu Feb 24 10:14:24 2011 elapsed time 0:3:51 Normal exit	
	===== Tool Settings: ===== dst-interface SATA28	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log =======	
	SHA1 Span Hashes total span hash: 3de70998 ad136e66 cd09b9b4 f	2f5164e 77b3b705
	IO Summary:(Time: Thu Feb 24 09:56:37 2011) Bytes Read: 5,368,594,432 5,368,594,432 bytes written to /dev/sdb2 ======= End of Excerpt from SMART log =======	=
	Excess destination partition sectors hash: SHA1 5368594432 - 5368709119 = 4E92C62451C88F7	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676	0AA0B9B4C415D3F48E2
Kesuics.	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Anolira: -:	Exposted results ashioted	
Analysis:	Expected results achieved	

5.2.20 DA-02-OSXC

5.2.20	DA-02-03AC
Test Case DA-	02-OSXC Smart Version 2010/11/03
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.
Tester Name:	hrl
	brl WoFat
Test Host:	Fri Feb 25 10:39:59 2011
Test Date: Drives:	src(4B-SATA) dst (1A-SATA) other (none)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
secup.	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSXC-sha1 2147483648 2D6303D74F9EDE617639643DCCF41EC2091D5F37
Log	===== Destination drive setup =====
Highlights:	234441648 sectors wiped with 1A
	Companion of original to alone duites
	===== Comparison of original to clone drive =====
	Sectors compared: 4194304
	Sectors match: 4194304 Sectors differ: 0
	Bytes differ: 0 Diffs range:
	run start Fri Feb 25 11:07:30 2011
	run finish Fri Feb 25 11:07:30 2011
	elapsed time 0:1:30
	Normal exit
	MOTHER CVIC
	===== Tool Settings: =====
	dst-interface SATA28

Test Case DA-	02-OSXC Smart Version 2010/11/03	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux ======= Excerpt from SMART log =======	SMP Fri Apr 16 08:10:02 UTC
	SHA1 Span Hashes total span hash: 2d6303d7 4f9ede61 7639643d ccf41ec2 091d5f37 IO Summary: (Time: Fri Feb 25 10:52:43 2011) Bytes Read: 2,147,483,648 2,147,483,648 bytes written to /dev/sdb5 ====== End of Excerpt from SMART log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2	
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.21 DA-02-OSXCJ

J.Z.Z I	DA-02-03A03
Test Case DA-	02-OSXCJ Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE.
	AM-04 If clone creation is specified, the tool creates a clone of the digital source.
	AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Feb 25 11:49:12 2011
Drives:	src(4B-SATA) dst (1A-SATA) other (none)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C ></pre>
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSXCJ-sha1 2147483648 29EA089958EF2A695081712FFBA68BA5164C980B
Log	===== Destination drive setup ======
Highlights:	234441648 sectors wiped with 1A
	===== Comparison of original to clone drive =====
	Sectors compared: 4194304
	Sectors match: 4194304
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Fri Feb 25 14:26:55 2011
	run finish Fri Feb 25 14:28:27 2011
	elapsed time 0:1:32
	Normal exit
	===== Tool Settings: =====
	dst-interface SATA28

Test Case DA	A-02-OSXCJ Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu	SMP Fri Apr 16 08:10:	02 UTC
	2010 i686 GNU/Linux		
	====== Excerpt from SMART log ======		
	SHA1 Span Hashes		
	total span hash: 29ea0899 58ef2a69 5081712f fba68ba5 164c980b		
	cocal Spain Hasin' Escavoss SociEados Soci71E1 1	200243 10167002	
	IO Summary: (Time: Fri Feb 25 12:00:57 2011)		
	Bytes Read: 2,147,483,648		
	2,147,483,648 bytes written to /dev/sdb6		
	====== End of Excerpt from SMART log ======	:=	
===== Source drive rehash =====			
	27.11.2.2 31.2.1.2 22.1.1.1.1		
	===== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D676	0AA0B9B4C415D3F48E2	
Daniel I.	27.11.2.2 31.2.1.2 22.1.1.1.1	0AA0B9B4C415D3F48E2	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676		
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result	Actual Result	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI.	Actual Result as expected	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS.	Actual Result as expected as expected	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected as expected as expected	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created.	Actual Result as expected as expected as expected as expected as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired.	Actual Result as expected as expected as expected as expected as expected as expected	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	Actual Result as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition.	Actual Result as expected	
Results:	Rehash (SHA1) of source: 70CC62B43F6A41CA4D676 Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI.	Actual Result as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	Actual Result as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged. AO-22 Tool calculates hashes by block.	Actual Result as expected	
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-04 A clone is created. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-11 A clone is created during acquisition. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected	

5.2.22 DA-02-OSXJ

J.Z.ZZ	DA-02-03A3
Test Case DA-	02-OSXJ Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source.
	AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are not modified.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Thu Feb 24 13:01:20 2011
Drives:	src(4B-SATA) dst (1A-SATA) other (none)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes)</pre>
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes 2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSXJ-sha1 10737418240 37311859444BD914EDAD43D93F2862E76B279A87
Log Highlights:	===== Destination drive setup ===== 234441648 sectors wiped with 1A
	===== Comparison of original to clone drive =====
	Sectors compared: 20971520 Sectors match: 20971520
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Thu Feb 24 14:07:58 2011
	run finish Thu Feb 24 14:15:19 2011 elapsed time 0:7:21
	Normal exit
	===== Tool Settings: =====
	dst-interface SATA28
	L

Test Case DA-	02-OSXJ Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log =======		
	SHA1 Span Hashes total span hash: 37311859 444bd914 edad43d9 3f2862e7 6b279a87 IO Summary:(Time: Thu Feb 24 13:15:07 2011) Bytes Read: 10,737,418,240 10,737,418,240 bytes written to /dev/sdb1		
	====== End of Excerpt from SMART log ===================================		
Results:			
	Assertion and 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 tested	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

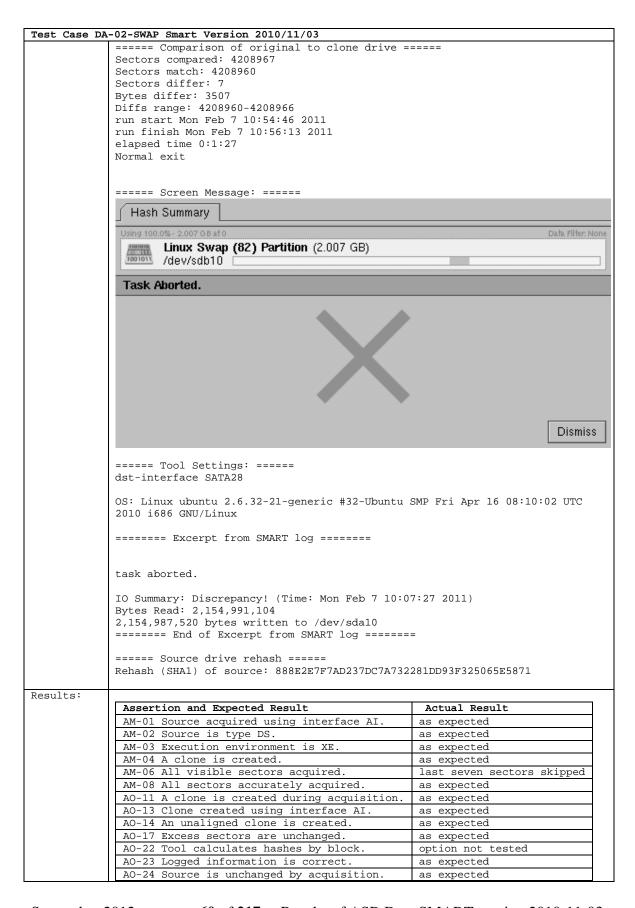
5.2.23 DA-02-OSXU

Test Case DA-	02-OSXU Smart Version 2010/11/03
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately.
	AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the
	clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector
	occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are
	not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Feb 25 09:09:41 2011
Drives:	src(4B-SATA) dst (1A-SATA) other (none)
Source	<pre>src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C ></pre>
Log	156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 05 extended 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 6 X 00000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00
Highlights:	234441648 sectors wiped with 1A ====== Comparison of original to clone drive ======
	Sectors compared: 6291456 Sectors match: 6291456 Sectors differ: 0 Bytes differ: 0 Diffs range: run start Fri Feb 25 09:35:31 2011 run finish Fri Feb 25 09:37:47 2011 elapsed time 0:2:16 Normal exit
	===== Tool Settings: ===== dst-interface SATA28

Test Case DA-02-OSXU Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux ====== Excerpt from SMART log =======	SMP Fri Apr 16 08:10:02 UTC
	SHA1 Span Hashes total span hash: d102a015 62c82533 c052ce6c f: IO Summary:(Time: Fri Feb 25 09:24:45 2011) Bytes Read: 3,221,225,472 3,221,225,472 bytes written to /dev/sdb3 ====== End of Excerpt from SMART log ====== ===== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D676	=
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected

5.2.24 DA-02-SWAP

Test Case DA	-02-SWAP Smart Version 2010/11/03	
Case Summary:	DA-02 Acquire a digital source of type DS to an unaligned clone.	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-05 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Togtor	brl	
Tester Name:	NT I	
Test Host:	WoFat	
Test Date:	Mon Feb 7 09:50:10 2011	
Drives:	src(43) dst (49-SATA) other (none)	
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>	
	78125000 total sectors (40000000000 bytes) Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 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 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 004192902 1023/000/01 1023/254/63 05 extended 9 S 000000063 00401995 1023/000/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/000/01 1023/254/63 05 extended 1 S 000000063 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712052 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712052 1023/001/01 1023/254/63 07 NTFS 16 S 000000003 027712052 1023/001/01 1023/254/63 07 NTFS 16 S 000000000 00000000 0000/000/00 0000/000/00 00	
Log Highlights :	===== Destination drive setup ===== 156301488 sectors wiped with 49	



Test Case DA	1-02-SWAP Smart Version 2010/11/03
Analysis:	Expected results not achieved

5.2.25 DA-02-SWAP-ALT

Test Case DA-	02-SWAP-ALT Smart Version 2010/11/03		
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 accurately written to the same disk address on the clone that the sector occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are not modified.		
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	WoFat		
Test Date:	Fri Mar 11 09:45:42 2011		
Drives:	src(43) dst (50-SATA) other (none)		
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>		
Secup.	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes 43swap-md5sum 2154991103 4B602964A30FE20D1B22B046A7375A7C		
	43swap-sha1sum 2154991103 F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF		
Log	===== Destination drive setup ======		
Highlights:	10000001 sectors wiped with 50		
	===== Comparison of original to clone drive =====		

```
Test Case DA-02-SWAP-ALT Smart Version 2010/11/03
              Sectors compared: 4208967
              Sectors match: 4208960
              Sectors differ: 7
              Bytes differ: 3577
              Diffs range: 4208960-4208966
              Source (4208967) has 1028097 fewer sectors than destination (5237064)
              Zero fill: 0
              Src Byte fill (43): 0
              Dst Byte fill (50): 1028097
              Other fill: 0
              Other no fill: 0
              Zero fill range:
              Src fill range:
              Dst fill range: 4208967-5237063
              Other fill range:
              Other not filled range:
              run start Fri Mar 11 10:12:51 2011
              run finish Fri Mar 11 10:14:53 2011
              elapsed time 0:2:2
              Normal exit
              ===== Tool Settings: =====
              dst-interface SATA28
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ====== Excerpt from SMART log ======
              SHA1 Span Hashes
               total span hash: 18b73d89 2d772b88 437ce039 2e1732ca 8fe2a2f4
              IO Summary: (Time: Fri Mar 11 10:01:02 2011)
              Bytes Read: 2,154,991,104
              2,154,991,104 bytes written to /dev/sdb5
              ====== End of Excerpt from SMART log =======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
               Assertion and Expected Result
                                                               Actual Result
               AM-01 Source acquired using interface AI.
                                                              as expected
               AM-02 Source is type DS.
                                                              as expected
               AM-03 Execution environment is XE.
                                                              as expected
               AM-04 A clone is created.
                                                              as expected
                                                              as expected
               AM-06 All visible sectors acquired.
               AM-08 All sectors accurately acquired.
                                                              last seven sectors differ
                                                              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 tested
               AO-23 Logged information is correct.
                                                              incorrect hash
               AO-24 Source is unchanged by acquisition.
                                                             as expected
Analysis:
             Expected results not achieved
```

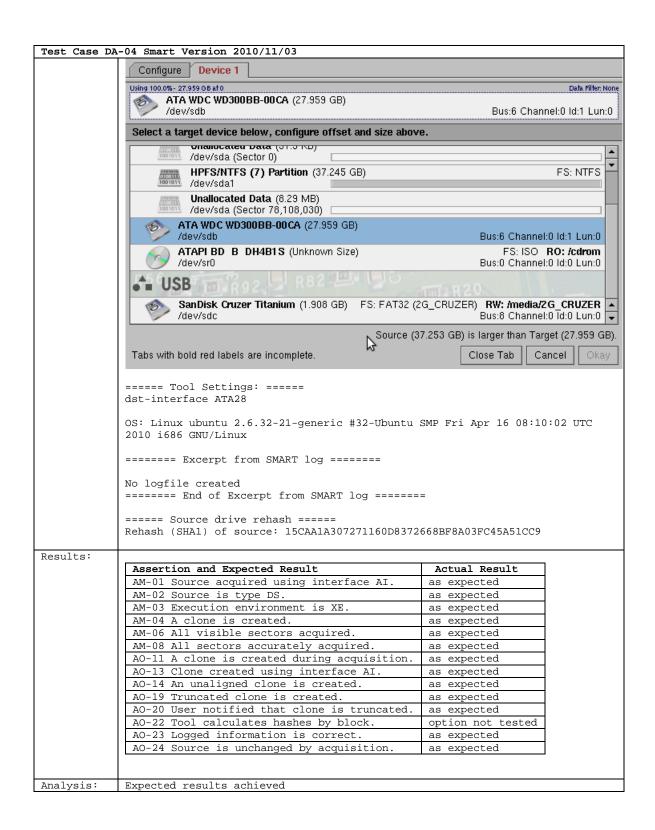
5.2.26 DA-02-THUMB

	DA-02-1110WB
Test Case DA-	02-THUMB Smart Version 2010/11/03
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.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Wed Feb 2 13:47:00 2011
Drives:	<pre>src(D5-THUMB) dst (D6-THUMB) other (none) src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08FDC53E38A ></pre>
Source Setup:	src hash (MD5): < C843593624B2B3B878596D8760B19954 >
Secup.	505856 total sectors (258998272 bytes)
	Model (usb2.0Flash Disk) serial # ()
Log	===== Destination drive setup =====
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:
	Dst fill range: 505856-4001759
	Other fill range:
	Other not filled range:
	0 source read errors, 0 destination read errors
	===== Tool Settings: =====
	dst-interface USB
	OC. Linux sharts 2.6.22.21 coronia #22 Hharts CMD Fri Apr. 16.00:10:02 HEG
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	2010 1000 ONO/ DIMAN
	====== Excerpt from SMART log ======
	· • · · · · · · · · · · · · · · · · · ·
	SHA1 Span Hashes

Test Case DA-	Case DA-02-THUMB Smart Version 2010/11/03		
	total span hash: d68520ef 74a336e4 9dccf838 15b7b08f dc53e38a		
	IO Summary: (Time: Wed Feb 2 14:57:07 2011)		
	Bytes Read: 258,998,272		
	258,998,272 bytes written to /dev/sdb		
	====== End of Excerpt from SMART log ======	_	
	End of Excelpt from State log		
	===== Source drive rehash ======		
	Rehash (SHA1) of source: D68520EF74A336E49DCCF83815B7B08FDC53E38A		
	Reliable (blint) of boards booseler misson is been south booseless and		
Results:			
	Assertion and 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 tested	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
71	The second was all the second		
Analysis:	Expected results achieved		

5.2.27 DA-04

Test Case DA	N-04 Smart Version 2010/11/03
Case	DA-04 Acquire a physical device to a truncated clone.
Summary:	and the state of t
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-04 If clone creation is specified, the tool creates a clone of the digital source. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-11 If requested, a clone is created during an acquisition of a digital source. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-19 If there is insufficient space to create a complete clone, a truncated clone is created using all available sectors of the clone device. AO-20 If a truncated clone is created, the tool notifies the user. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Mon Feb 7 11:14:27 2011
Drives:	src(41) dst (25-IDE) other (none)
Source Setup:	<pre>src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights :	===== Destination drive setup ===== 58633344 sectors wiped with 25 ===== Screen Message: =====



5.2.28 DA-06-ATA28

Test Case DA-	06-ATA28 Smart Version 2010/11/03	
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Wed Feb 9 14:07:47 2011	
Drives:	src(01-IDE) dst (none) other (3C-SATA)	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
	Reference SHAl hashes, Win size: 4193792 (sectors) 2147221504 (bytes) 1	
Log Highlights:	===== Tool Settings: =====	
	-	

```
Test Case DA-06-ATA28 Smart Version 2010/11/03
              segmentation Standard
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ===== Image file segments ======
              1
                     -rwx----- 1 ubuntu root 8277 2011-02-09 16:08 da-06-ata28
               2
                     -rwx----- 1 ubuntu root 2147221504 2011-02-09 14:18 da-06-
              ata28.image.001
                     -rwx----- 1 ubuntu root 2147221504 2011-02-09 14:22 da-06-
              3
              ata28.image.002
               19
                     -rwx----- 1 ubuntu root 2147221504 2011-02-09 15:33 da-06-
              ata28.image.018
                     -rwx----- 1 ubuntu root 1370677248 2011-02-09 15:36 da-06-
               20
              ata28.image.019
               21
                     -rwx----- 1 ubuntu root 41922 2011-02-09 15:36 da-06-
              ata28.image.info
              ====== Excerpt from SMART log =======
              Image Description...
              Make and Model: ATA WDC WD400BB-00JH
              Serial Number: WD-WMAMC7417100
              Device Sectors: 78,165,360
              SHA1 Span Hashes
               total span hash: a96a7193 eld9c270 587b2be7 098638ac 048221d1
              SHA1 Segment-Delimited Span Hashes
               1
                     0 - 2147221503: d0047f1f 513422c4 25d3fbdb 615f6140 a572249e
                      2147221504 - 4294443007: 8839fbdc f0f7ea3f 81c79a49 1c20f6b6
              84c7da53
               3
                     4294443008 - 6441664511: 862aefa7 658e90d5 fd4bf4c1 a49dbb0a
              b4d0e8f8
                     34355544064 - 36502765567: 2dc4cd16 66d88c15 c8b1dc47 f9c2e402
               17
              769cc83f
                     36502765568 - 38649987071: 3711100f 684c4d52 2847461e 28ffd3c8
               18
              9336a007
               19
                     38649987072 - 40020664319: b72d506b 9f2a20f7 f3a04555 5fc85df5
              6daeb7e3
              IO Summary: (Time: Wed Feb 9 15:36:50 2011)
              Bytes Read: 40,020,664,320
              40,020,664,320 bytes written to image "da-06-ata28"
              ====== End of Excerpt from SMART log =======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: A96A7193E1D9C270587B2BE7098638AC048221D1
Results:
               Assertion and 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.
                                                                  88 sectors differ
               AO-01 Image file is complete and accurate.
                                                                  as expected
               AO-05 Multifile image created.
                                                                  as expected
               AO-22 Tool calculates hashes by block.
                                                                  as expected
               AO-23 Logged information is correct.
                                                                  as expected
               AO-24 Source is unchanged by acquisition.
                                                                  source changed
Analysis:
             Expected results not achieved
```

5.2.29 DA-06-ATA28-WB

Test Case DA-0	06-ATA28-WB Smart Version 2010/11/03	
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 multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block	
	size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,	
	the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	WoFat	
Test Date:	Mon Mar 14 13:51:40 2011	
Drives:	src(01-IDE) dst (none) other (3C-SATA)	
Source Setup:	<pre>src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E ></pre>	
secup.	Reference SHA1 hashes, Win size: 4193792 (sectors) 2147221504 (bytes) 1 0 - 4193791 D0047F1F513422C425D3FBDB615F6140A572249E -	
	2 4193792 - 8387583 8839FBDCF0F7EA3F81C79A491C20F6B684C7DA53 - 3 8387584 - 12581375 862AEFA7658E90D5FD4BF4C1A49DBB0AB4D0E8F8 - 	
	18 71294464 - 75488255 3711100F684C4D522847461E28FFD3C89336A007 - 19 75488256 - 78165359 B72D506B9F2A20F7F3A045555FC85DF56DAEB7E3 - 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 0C Fat32X	
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/000/01 1023/254/63 16 other 8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32 10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended 15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS 16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes 3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes 15 027744192 sectors 14205026304 bytes	
Log Highlights:	===== Tool Settings: =====	

```
Test Case DA-06-ATA28-WB Smart Version 2010/11/03
              segmentation Standard
              Write Block: 3 FastBloc IDE
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ===== Image file segments ======
               1
                      -rwxr-xr-x 1 ubuntu ubuntu 8334 2011-03-14 15:52 da-06-ata28-wb
               2
                      -rwxr-xr-x 1 ubuntu ubuntu 2147221504 2011-03-14 14:11 da-06-ata28-
              wb.image.001
               3
                     -rwxr-xr-x 1 ubuntu ubuntu 2147221504 2011-03-14 14:15 da-06-ata28-
              wb.image.002
               19
                     -rwxr-xr-x 1 ubuntu ubuntu 2147221504 2011-03-14 15:27 da-06-ata28-
              wb.image.018
                     -rwxr-xr-x 1 ubuntu ubuntu 1370677248 2011-03-14 15:31 da-06-ata28-
              wb.image.019
                     -rwxr-xr-x 1 ubuntu ubuntu 42183 2011-03-14 15:31 da-06-ata28-
               21
              wb.image.info
              ====== Excerpt from SMART log =======
              Image Description...
              Make and Model: ATA WDC WD400BB-00JH
              Serial Number: WD-WMAMC7417100
              Device Sectors: 78,165,360
              SHA1 Span Hashes
               total span hash: a48bb566 5d6dc57c 22db68e2 f723da9a a8df82b9
              SHA1 Segment-Delimited Span Hashes
                      0 - 2147221503: d0047f1f 513422c4 25d3fbdb 615f6140 a572249e
               1
               2
                      2147221504 - 4294443007: 8839fbdc f0f7ea3f 81c79a49 1c20f6b6
              84c7da53
               3
                      4294443008 - 6441664511: 862aefa7 658e90d5 fd4bf4c1 a49dbb0a
              b4d0e8f8
                      34355544064 - 36502765567: 2dc4cd16 66d88c15 c8b1dc47 f9c2e402
              769cc83f
               18
                      36502765568 - 38649987071: 3711100f 684c4d52 2847461e 28ffd3c8
              9336a007
               19 38649987072 - 40020664319: b72d506b 9f2a20f7 f3a04555 5fc85df5
              6daeb7e3
              IO Summary: (Time: Mon Mar 14 15:31:03 2011)
              Bytes Read: 40,020,664,320
              40,020,664,320 bytes written to image "da-06-ata28-wb"
              ====== End of Excerpt from SMART log ======
Results:
               Assertion and 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
               \mbox{AM-05} An image is created on file system type FS.
                                                                   as expected
               AM-06 All visible sectors acquired.
                                                                   as expected
                AM-08 All sectors accurately acquired.
                                                                   as expected
               AO-01 Image file is complete and accurate.
                                                                   as expected
               AO-05 Multifile image created.
                                                                   as expected
               AO-22 Tool calculates hashes by block.
                                                                   as expected
               AO-23 Logged information is correct.
                                                                   as expected
                                                                   not checked
               AO-24 Source is unchanged by acquisition.
Analysis:
             Expected results achieved
```

5.2.30 DA-06-ATA48

J.Z.30	DA-00-A I A+0
Test Case DA-	06-ATA48 Smart Version 2010/11/03
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 multifile image of a requested size then all the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Tue Feb 8 11:23:19 2011
Drives:	src(4C) dst (none) other (67-SATA)
Source	src hash (SHA1): < 8FF620D2BEDCCAFE8412EDAAD56C8554F872EFBF >
Setup:	src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382 >
	390721968 total sectors (200049647616 bytes)
	24320/254/63 (max cyl/hd values)
	24321/255/63 (number of cyl/hd)
	IDE disk: Model (WDC WD2000JB-00KFA0) serial # (WD-WMAMR1031111)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 00000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 390700737 sectors 200038777344 bytes
_	
Log	mad Gardinan
Highlights:	===== Tool Settings: =====
	segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 3223 2011-02-09 08:53 da-06-ata48
	2 200049647616 2011-02-08 16:47 da-06-ata48.image.001
	3 4716 2011-02-08 16:47 da-06-ata48.image.info
	====== Excerpt from SMART log ======
	Image Description
	Make and Model: ATA WDC WD2000JB-00K
	Serial Number: WD-WMAMR1031111
	Device Sectors: 390,721,968
	SHA1 Span Hashes
	total span hash: 8ff620d2 bedccafe 8412edaa d56c8554 f872efbf
	IO Summary: (Time: Tue Feb 8 16:47:29 2011)
	I BVTes Read: 200.049.647.616
	Bytes Read: 200,049,647,616 200,049,647,616 bytes written to image "da-06-ata48"
	200,049,647,616 bytes written to image "da-06-ata48"
	200,049,647,616 bytes written to image "da-06-ata48" ====== End of Excerpt from SMART log =======
	200,049,647,616 bytes written to image "da-06-ata48" ====== End of Excerpt from SMART log ======= ===== Source drive rehash ======
	200,049,647,616 bytes written to image "da-06-ata48" ====== End of Excerpt from SMART log =======

Assertion and 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 tested
AO-23 Logged information is correct.	as expected
AO-24 Source is unchanged by acquisition.	as expected

5.2.31 DA-06-ESATA

Test Case DA-	06-ESATA Smart Version 2010/11/03	
Case	DA-06 Acquire a physical device using access interface AI to an image file.	
Summary:	24 01 77 1 7	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS.	
	AM-06 All visible sectors are acquired from the dig 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.	are acquired accurately.
	AO-05 If the tool creates a multifile image of a re 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	quested size. s for a specified block
	AO-24 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	ion, the information is
	the digital source is unchanged by the acquisition	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Tue Feb 8 13:20:35 2011	
Drives:	<pre>src(07-SATA) dst (none) other (68-SATA) src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E ></pre>	
Source Setup:	src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B > 156301488 total sectors (80026361856 bytes)	
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044) N Start LBA Length Start C/H/S End C/H/S boot Part 1 P 000000063 156280257 0000/001/01 1023/254/63 Bo	
	2 P 000000000 0000000000 0000/000/00 0000/000/00 00 3 P 000000000 000000000 0000/000/00 0000/000/00 00 4 P 000000000 000000000 0000/000/00 0000/000/00 00 1 156280257 sectors 80015491584 bytes	empty entry empty entry
Log Highlights:	===== Tool Settings: ===== segmentation Transport Media	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux	
	===== Image file segments ===== 1	
	SHA1 Span Hashes total span hash: 655e9bdd b36a3f9c 5c4cc8bf 32b8c5b4 1af9f52e	
	IO Summary:(Time: Tue Feb 8 15:49:46 2011) Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata" ======= End of Excerpt from SMART log =======	
	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata"	
Results:	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata" ====== End of Excerpt from SMART log ======= =============================	
Results:	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata" ====== End of Excerpt from SMART log ======= =============================	
Results:	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata" ====== End of Excerpt from SMART log ======= Rehash (SHA1) of source: 655E9BDDB36A3F9C5C4CC8BF32 Assertion and Expected Result AM-01 Source acquired using interface AI.	B8C5B41AF9F52E
Results:	Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-esata" ====== End of Excerpt from SMART log ====== ===== Source drive rehash ===== Rehash (SHA1) of source: 655E9BDDB36A3F9C5C4CC8BF32 Assertion and Expected Result	B8C5B41AF9F52E Actual Result

Test Case DA-	-06-ESATA Smart Version 2010/11/03		
	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 tested	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.32 DA-06-FW

Test Case DA-	06-FW Smart Version 2010/11/03
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 multifile 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.
Mantan Mana	11
Tester Name:	brl
Test Host:	Max
Test Date:	Wed Feb 9 11:40:50 2011
Drives: Source	<pre>src(63-FU2) dst (none) other (3A-SATA) src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B ></pre>
Setup:	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC >
secup.	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 0F extended
	3 S 000000063 113097537 0261/001/01 1023/254/63 0B Fat32
	4 S 000000000 000000000 0000/000/00 0000/000/00 00
	5 P 000000000 000000000 0000/000/00 0000/000/00 00
	6 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 004192902 sectors 2146765824 bytes
	3 113097537 sectors 57905938944 bytes
Ŧ	
Log	
Highlights:	===== Tool Settings: =====
	segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 3407 2011-02-09 16:26 da-06-fw
	2 60060155904 2011-02-09 16:17 da-06-fw.image.001
	3 7495 2011-02-09 16:17 da-06-fw.image.info
	===== Excerpt from SMART log ======
	Image Description
1	Make and Model: DMI SAMSUNG SP0612N
1	Device Sectors: 117,304,992
	SHA1 Span Hashes
1	total span hash: f7069edc beac863c 88deced8 2159f22d a96be99b
	IO Summary: (Time: Wed Feb 9 16:17:48 2011)
	Bytes Read: 60,060,155,904
	60,060,155,904 bytes written to image "da-06-fw"
	====== End of Excerpt from SMART log =======
	The of Proof of Trem Strand Tog
	===== Source drive rehash ======
	Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B
	ACHABIT (DIRT) OI BOULCE: F/00/EDCDERCUU3CODECED02137F22DA70BE77B

AM AM	M-01 Source acquired using interface AI.	as expected
	. 00 0	
	M-02 Source is type DS.	as expected
AM	M-03 Execution environment is XE.	as expected
AM	M-05 An image is created on file system type FS.	as expected
AM	M-06 All visible sectors acquired.	as expected
AM	M-08 All sectors accurately acquired.	as expected
AC	0-01 Image file is complete and accurate.	as expected
AC	0-05 Multifile image created.	as expected
AC	0-22 Tool calculates hashes by block.	option not tested
AC	0-23 Logged information is correct.	as expected
AC	0-24 Source is unchanged by acquisition.	as expected

5.2.33 DA-06-SATA28

Test Case DA-06-SATA28 Smart Version 2010/11/03 Case Summary: DA-06 Acquire a physical device using access interface AI to an image file. Summary: AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquired digital source DS. AM-03 The tool cascutes in execution environment XS. AM-06 AID visible section is specified, the tool creates an image file on the digital source. AM-08 AID sectors acquired from the digital source are acquired sectors. AM-08 AID sectors acquired from the digital source are acquired sectors. AM-08 AID sectors acquired from the digital source are acquired sectors. AM-08 AID sectors acquired from the digital source are acquired sectors. AM-09 If the tool creates an multifile 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. AM-02 If requested, the tool cascutes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: brites: Tester Name: brites: Test Date: Fri Feb II 09:52:25 2011 Drives: Sectup: Sectup: Sectup: Sectup: Sectup: Sectup: Sectup: Sectup: AM-08 AID sectors are acquired from the digital source. AM-08 AID sectors are acquired from the digital source are cascution environment, the digital source is unchanged by the acquisition process. Tester Name: brites: Tester Name: brites: Tester Name: brites: Sectup:	J.Z.JJ	DA-00-3A1A20
Summary: AM-01 The tool uses access interface SRC-A1 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 acquired from the digital source are acquired accurately. AM-08 If sectors acquired from the digital source are acquired accurately. AM-08 All visible sectors acquired from the digital source are acquired accurately. AM-08 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AM-08 If the tool creates a multifile image of a requested size then all the individual files of hall be no larger than the requested of the image did in the image of a requested of the image did in the individual files of hall be no larger than the requested of the image did in the image of a requested of the image did in the image of a requested size them all the individual files of hall be no larger than the requested of the image did in the log file. AM-0-24 If the tool logs any log significant information, the information is accurately recorded in the log file. AM-0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquired from the digital source. Tests Name: Brites Home: Fri Feb II 09:152:25 201 Tests Name: Fri Feb II 09:152:25 201 Test Home: Fri Feb II 09:152:25 201 Test	Test Case DA-	
Summary: AM-01 The tool uses access interface SRC-A1 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 acquired from the digital source are acquired accurately. AM-08 If sectors acquired from the digital source are acquired accurately. AM-08 All visible sectors acquired from the digital source are acquired accurately. AM-08 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AM-08 If the tool creates a multifile image of a requested size then all the individual files of hall be no larger than the requested of the image did in the image of a requested of the image did in the individual files of hall be no larger than the requested of the image did in the image of a requested of the image did in the image of a requested size them all the individual files of hall be no larger than the requested of the image did in the log file. AM-0-24 If the tool logs any log significant information, the information is accurately recorded in the log file. AM-0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquired from the digital source. Tests Name: Brites Home: Fri Feb II 09:152:25 201 Tests Name: Fri Feb II 09:152:25 201 Test Home: Fri Feb II 09:152:25 201 Test		
AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool executes in execution environment XE. AM-05 The tool executes in execution environment XE. AM-05 The tool executes in execution environment XE. AM-06 All sectors acquired from the digital source. AM-06 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 are the same as the data acquired by the tool. AO-05 If the tool creates an image file are the same as the data acquired for a frequented size then all source. AO-05 If the tool creates a multifule image of a requested size then all source. AO-05 If the tool creates a multifule image of a requested size then all source in the same as the data acquired from the digital source. AO-05 If the tool logical source is considered from the digital source. AO-05 If the tool logical source is unchanged by the acquired from the digital source. AO-05 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquirition process. Tester Name: Test Date: Pri Feb 11 09:52:25 2011 Drives: Source Source Source Source Source Source Source Source Source No 23 4 15 the 100:52:25 2011 Drives: Source Sour		2. To logate a physical across abing access interface at to an image life.
AM-02 The tool acquired digital source DS. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 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-08 All sectors acquired from the digital source are acquired accurately. AM-08 All sectors acquired from the digital source are acquired accurately. AM-08 If the tool creates a multifile 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 some acquired accurate and acquisition process. Tester Name: bri Test Na		
AM-03 The tool executes in execution environment XS. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All sectors acquired from the digital source are acquired from the digital source are acquired accurately. AM-06 All sectors acquired from the digital source are acquired file are the same as the data acquired by the tool. AM-05 If the tool creates an multifile 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: **Path Modernet** Test Boat: **Pri Feb 11 09:52:25 2011** **Prive:** **Brick Modernet** **Pri Feb 10 09:52:25 2011** **Prive:** **Brick Modernet** **Pri Feb 11 09:52:25 2011** **Prive:** **Brick Modernet** **Pri Feb 11 09:52:25 2011** **Prive:** **Brick Modernet** **Pri Feb 11 09:52:25 2011** **Prive:** **Brick Modernet** **Prive:** **Prive:** **Brick Modernet** **Brick Moderne	Assertions:	
AM-05 if image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source are acquired accurately. AM-08 All visible sectors acquired from the digital source are acquired accurately. AM-08 All sectors acquired from the digital source are acquired accurately. AM-08 All sectors acquired by the tool. AM-08 File are the same as the data acquired by the tool. AM-08 File the tool creates a multifile 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. 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-03 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 Feb 11 09:52:25 2011 Drives: Scruce Sctup: Tri Feb 11 09:52:25 2011 Drives: Src hash (MD5): < 746B4C06CDDFFBD67C0820D84325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6025C9V5) N Start LBA Length Start C/M/S Bm C/M/S boot Partition type 1 P 00000063 020971520 0000/001/01 1023/254/63 AP other 2 P 020971629 01048555 1023/254/63 1023/254/63 AP other 3 P 031457223 006291456 1023/254/63 1023/254/63 AP other 4 X 037746679 008188694 1023/254/63 1023/254/63 AP other 4 X 037746679 00818694 1023/254/63 1023/254/63 AP other 8 S 0000000039 004194304 1023/254/63 1023/254/63 AP other 8 S 00000000000000000000000000000000000		AM-02 The tool acquires digital source DS.
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 are the same as the data acquired by the tool. AO-02 if the tool creates a multifile image of a requested size than 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. AD-24 if the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Bost: Test Bost: WcGarrett Test Date: Pri Peb II 09:52:25 2011 Test Rome: Source Sctup:		AM-03 The tool executes in execution environment XE.
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 are the same as the data acquired by the tool. AO-02 if the tool creates a multifile image of a requested size than 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. AD-24 if the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Bost: Test Bost: WcGarrett Test Date: Pri Peb II 09:52:25 2011 Test Rome: Source Sctup:		AM-05 If image file creation is specified, the tool creates an image file
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile 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 Pate:		
AM-08 All sectors acquired from the digital source are acquired accurately. A0-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. A0-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Name: brl Test Host: Test Bate: Test Bate: Test Bate: Test Bate: Test hash (SHAl): < 70CCG2B43F6AHCAAD6760AAD89B4C415D3F48E2 > src hash (SHAl): < 70CCG2B43F6AHCAAD6760AAD89B4C415D3F48E2 > src hash (MShl): < 70CCG2B43F6AHCAAD6760AAD89B4C415D3F48E2 > src hash (MShl): < 70CCG2B43F6AHCAAD6760AAD89B4C415D3F48E2 > src hash (MShl): < 70ECG2B43F6AHCAAD6760AAD89B4C415D3F48E2 > src hash		
A0-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. A0-05 If the tool creates a multifile 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. A0-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Tester Name: br!		
file are the same as the data acquired by the tool.		
AO-05 if the tool creates a multifile 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: Test Date: Test Date: Fri Feb ll 09:52:25 2011 Drives: src(4B-SATA) dst (none) other (68-SATA) Source src hash (SHAl): < 700C652B43F6A1CA4D6760AAD89B4C415D3F48E2 > src hash (MDS): < 74684C06CDD5FBD67C082DD84325B40C > 156301488 total sectors (80026361856 bytes) Model (STA0615AS) serial # (602SCSYS) N Start LEA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 AF other 4 X 037748679 00838694 1023/254/63 1023/254/63 05 extended 5 S 000000039 04194304 1023/254/63 1023/254/63 05 extended 6 S 004194343 004194351 1023/254/63 1023/254/63 05 extended 7 S 000000000 00000000 000000000 0000/000/		
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 Date: Test Date: Fri Feb 11 09:52:25 2011 Drives: Scr(4B-SATA) dot (none) other (68-SATA) Source Src hash (SMD): < 74684C06CDDFFBD67C082DDB432EB40C > 156301488 total sectors (8002631856 bytes) Model (ST380815AS) serial # (6025C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 Are other 2 P 020971629 010485536 1023/254/64 1023/254/63 Are other 3 P 031457223 006291456 1023/254/63 1023/254/63 Are other 4 X 0377486679 00838694 1023/254/63 1023/254/63 Are other 6 x 004194343 01494351 1023/254/63 1023/254/63 Are other 6 x 004194343 01494351 1023/254/63 1023/254/63 Are other 7 S 00000007 004194341 1023/254/63 1023/254/63 Are other 8 S 000000009 0041943451 1023/254/63 1023/254/63 Are other 8 S 000000000 00000000 0000/000/000/000/0		file are the same as the data acquired by the tool.
A0-22 If frequested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-21 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Most:		AO-05 If the tool creates a multifile image of a requested size then all
A0-22 If frequested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. A0-21 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Most:		the individual files shall be no larger than the requested size.
size during an acquisition for each block acquired from the digital source. Ao-21 ff the tool logs any log significant information, the information is accurately recorded in the log file. Ao-24 lf the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Date: McGarrett		
A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Host: Test Host: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: Sor(AB-SATA) dat (none) other (68-SATA) Source Setup: Set hash (SHA1): < 70cC6284376A4LCA4D6760AAOB984C415D3F48E2 > sor hash (MD5): < 746B4C08CDD5FBD67C082DD84325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (60250975) N Start LBA Length Start C/H/S Rnd C/H/S boot Partition type 1 P 00000063 20971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 AF other 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 7 S 00000049 04194304 1023/254/63 1033/254/63 AF other 8 S 00000000 000000000 0000/000/00 0000/000/00 000 empty entry 1 020971520 sectors 10737418240 bytes 2 010485536 sectors 3221225472 bytes 3 006291456 sectors 3124783648 bytes Log Highlights: s===== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Image file segments ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Tool Settings: ====== segmentation Partition Aligned In 3710 2011-02-11 09:03 da-06-sata28.image.010 12 56404026880 2011-02-11 05:03 da-06-sata28.image.010 13 17544 2011-02-11 0		
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 Date: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: Src(4B-SATA) dst (none) other (68-SATA) Source Srchash (SHA): < 7000000000000000000300000000000000000		
A0-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process. Test Name: br! Test Host: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: Sr(48-SATA) dst (none) other (68-SATA) Source Setup: Src hash (SHA1): < 700C62B4376A4LCA4D6760AA0B9B4C415D3F48E2 > src hash (MD5): < 746B4C0SCDD5FBD67C082D8H335B4DC > 156301488 total sectors (80026361856 bytes) Model (ST380815A5) serial #1 (602509V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020971520 0000/001/10 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194351 0023/254/63 1023/254/63 05 extended 6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended 7 S 000000047 004194354 1023/254/63 1023/254/63 05 extended 7 S 000000047 004194354 1023/254/63 1023/254/63 05 extended 7 S 000000047 004194304 1023/254/63 1023/254/63 05 extended 7 S 000000047 000000000 0000/0000/00 0000/000/00 00 empty entry 1 020971520 sectors 10737418240 bytes 2 010485356 sectors 3261225472 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes Log Highlights: Log Highlights: Log Highlights:		
Tester Name: Drl Test Host: McGarrett Test Bost: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: Src(4B-SATA) dst (nome) other (68-SATA) Source Schash (SHA1): < 70CC52B43F6A41CA4D6760AA0B9B4C415D3F48E2 > Src hash (SHA1): < 70CC52B43F6A41CA4D6760AA0B9B4C415D3F48E2 > Src hash (SHA1): < 70CC52B43F6A41CA4D6760AA0B9B4C415D3F48E2 > Src hash (MD5): < 746B4C05CDD5FBD67C0820DB43Z5B40C > 155301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6025C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 AF other 4 X 037748679 00838694 1023/254/63 1023/254/63 AF other 6 X 004194434 004194351 1023/254/63 1023/254/63 AF other 6 X 004194434 004194351 1023/254/63 1023/254/63 AF other 8 S 00000000 000000000 0000/0000 0000 00		
Test Name: br1 Test Host: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: src(48-SATA) dst (none) other (68-SATA) Source src hash (SBA1): < 70CC62843F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MSD): < 746B4C6CDD5FBB67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (602509V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 00000063 020971520 0000/001/01 1022/254/63 AF other 2 p 020971629 010485536 1023/254/63 1023/254/63 AF other 3 p 031457223 006291456 1023/254/63 1023/254/63 M5 extended 5 S 00000003 004194304 1023/254/63 1023/254/63 U523/254/63 Fother 6 x 004194340 04194351 1032/254/63 1023/254/63 Fother 6 x 004194340 04194351 1032/254/63 1023/254/63 Fother 7 S 000000047 004194304 1023/254/63 1023/254/63 Fother 8 S 000000000 000000000 0000/000/00 0000000		AO-24 If the tool executes in a forensically safe execution environment,
Test Name: br1 Test Host: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: src(48-SATA) dst (none) other (68-SATA) Source src hash (SBA1): < 70CC62843F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MSD): < 746B4C6CDD5FBB67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (602509V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 00000063 020971520 0000/001/01 1022/254/63 AF other 2 p 020971629 010485536 1023/254/63 1023/254/63 AF other 3 p 031457223 006291456 1023/254/63 1023/254/63 M5 extended 5 S 00000003 004194304 1023/254/63 1023/254/63 U523/254/63 Fother 6 x 004194340 04194351 1032/254/63 1023/254/63 Fother 6 x 004194340 04194351 1032/254/63 1023/254/63 Fother 7 S 000000047 004194304 1023/254/63 1023/254/63 Fother 8 S 000000000 000000000 0000/000/00 0000000		the digital source is unchanged by the acquisition process.
Test Date: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: src(48-SATA) dst (none) other (68-SATA) Source Setup: src hash (SHAl): < 70CC62843F6A4ICA4D6760AA0B984C415D3F48E2 > src hash (M55): < 70CC62843F6A4ICA4D6760AA0B984C415D3F48E2 > src hash (M55): < 776B4C6CDD57EB67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (S7380815AS) serial # (60250Y5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 00000063 020971520 0000/001/01 1023/254/63 AF other 2 p 020971629 010485536 1023/254/63 1023/254/63 AF other 3 p 031457223 006291456 1023/254/63 1023/254/63 Se tended 5 s 000000039 004194304 1023/254/63 1023/254/63 O5 extended 5 s 000000039 004194304 1023/254/63 1023/254/63 Se tended 7 s 00000047 004194304 1023/254/63 1023/254/63 Se tended 7 s 000000047 004194304 1023/254/63 1023/254/63 Se tended 7 s 000000047 004194304 1023/254/63 1023/254/63 Se tended 8 s 000000000 0000000000000000000000000		J
Test Date: McGarrett Test Date: Fri Feb 11 09:52:25 2011 Drives: src(48-SATA) dst (none) other (68-SATA) Source Setup: src hash (SHAl): < 70CC62843F6A4ICA4D6760AA0B984C415D3F48E2 > src hash (M55): < 70CC62843F6A4ICA4D6760AA0B984C415D3F48E2 > src hash (M55): < 776B4C6CDD57EB67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (S7380815AS) serial # (60250Y5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 p 00000063 020971520 0000/001/01 1023/254/63 AF other 2 p 020971629 010485536 1023/254/63 1023/254/63 AF other 3 p 031457223 006291456 1023/254/63 1023/254/63 Se tended 5 s 000000039 004194304 1023/254/63 1023/254/63 O5 extended 5 s 000000039 004194304 1023/254/63 1023/254/63 Se tended 7 s 00000047 004194304 1023/254/63 1023/254/63 Se tended 7 s 000000047 004194304 1023/254/63 1023/254/63 Se tended 7 s 000000047 004194304 1023/254/63 1023/254/63 Se tended 8 s 000000000 0000000000000000000000000	Togton Name:	had
Test Date:		
Drives: src(4B-SATA) dst (none) other (68-SATA)		
Source Setup: Src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6025C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type	Test Date:	Fri Feb 11 09:52:25 2011
Source Setup: Src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6025C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type	Drives:	src(4B-SATA) dst (none) other (68-SATA)
Setup: Setup: Src hash (MDS): < 746B4CO6CDD5FBD67C0820D84325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6Q25C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 06291456 1023/254/63 1023/254/63 AF other 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/0000/00 0000/000/00 0000/000 0000 1 020971520 sectors 10737418240 bytes 2 010485536 sectors 5368594432 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes 1 3710 2011-02-11 09:39 da-06-sata28 image.001 3 10737418240 2011-02-11 05:01 da-06-sata28.image.002 1 2147483648 2011-02-11 05:03 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info		
156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 AB other 4 X 037748679 008388694 1023/254/63 1023/254/63 D5 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 O5 extended 7 S 000000047 004194304 1023/254/63 D23/254/63 O5 extended 7 S 000000047 004194304 bytes 2 010485536 sectors 5368594432 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes 2 ===== Tool Settings: =====		
Model (ST380815AS) serial # (6Q25C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 F other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 00000039 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 00000/000 0000/000 000 00	secup.	
N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485336 1023/254/63 1023/254/63 AF other 4 X 037748679 008388694 1023/254/63 1023/254/63 AB other 4 X 037748679 008388694 1023/254/63 1023/254/63 O5 extended 5 S 00000039 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 6 X 00000000 000000000 0000/000/00 0000/000/00 000 extended 7 S 00000000 00000000 0000/000/00 0000/000/00 00		
1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 O5 extended 7 S 000000047 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/00000000000		Model (ST380815AS) serial # (6QZ5C9V5)
2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 05 extended 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 6 x 004194343 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 8 x 000000047 004194304 1023/254/63 1023/254/63 AF other 8 x 000000000 000000000 0000/000/00 0000/000/00 00		N Start LBA Length Start C/H/S End C/H/S boot Partition type
2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 05 extended 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 6 x 004194343 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 8 x 000000047 004194304 1023/254/63 1023/254/63 AF other 8 x 000000000 000000000 0000/000/00 0000/000/00 00		1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 AF other 5 S 00000039 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/00/00 0000/00/		
4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 05 extended 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000000 0000000000000000000000000		
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8 S 000000000 000000000 0000/000/000 0000/000/00 00		6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
1 020971520 sectors 10737418240 bytes 2 010485536 sectors 5368594432 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes Log Highlights: ===== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======== Excerpt from SMART log ======== Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
1 020971520 sectors 10737418240 bytes 2 010485536 sectors 5368594432 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes Log Highlights: ===== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======== Excerpt from SMART log ======== Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		8 S 000000000 000000000 0000/000/00 0000/000/00 00
2 010485536 sectors 5368594432 bytes 3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes Log Highlights: ===== Tool Settings: ====== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Image file segments ====== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
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5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes Log Highlights: ===== Tool Settings: ===== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6Q25C9V5 Device Sectors: 156,301,488		-
Log Highlights: ====== Tool Settings: ====== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Image file segments ====== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======== Excerpt from SMART log ======== Image Description Make and Model: ATA ST380815AS Serial Number: 6Q25C9V5 Device Sectors: 156,301,488		-
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### Highlights: ====== Tool Settings: ====== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Image file segments ====== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ========= Excerpt from SMART log ======== Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		7 004194304 sectors 2147483648 bytes
### Highlights: ====== Tool Settings: ====== segmentation Partition Aligned OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Image file segments ====== 1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ========= Excerpt from SMART log ======== Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
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OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux =====	mightights.	——————————————————————————————————————
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===== Image file segments ====== 1		
===== Image file segments ===== 1		OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
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1 3710 2011-02-11 09:39 da-06-sata28 2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
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2 32256 2011-02-11 05:01 da-06-sata28.image.001 3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
3 10737418240 2011-02-11 05:30 da-06-sata28.image.002 11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
11 2147483648 2011-02-11 06:07 da-06-sata28.image.010 12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		3 10737418240 2011-02-11 05:30 da-06-sata28.image.002
12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
12 56404026880 2011-02-11 08:40 da-06-sata28.image.011 13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		11 2147483648 2011-02-11 06:07 da-06-sata28.image.010
13 17544 2011-02-11 08:40 da-06-sata28.image.info ======= Excerpt from SMART log ======= Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		and the second s
Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
Image Description Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488	1	====== Excerpt Irom SMAKT log ======
Make and Model: ATA ST380815AS Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		
Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		Image Description
Serial Number: 6QZ5C9V5 Device Sectors: 156,301,488		Make and Model: ATA ST380815AS
Device Sectors: 156,301,488		
SHA1 Span Hashes		Device Decicis. 130,301,400
SHA1 Span Hashes		
		SHAI SPAN HASNES

Test Case DA-	06-SATA28 Smart Version 2010/11/03	
	total span hash: 70cc62b4 3f6a4lca 4d6760aa 0b9b4c IO Summary:(Time: Fri Feb 11 13:40:49 2011) Bytes Read: 80,026,361,856 80,026,361,856 bytes written to image "da-06-sata28 80,026,361,856 bytes written to image "da-06-sata28 ====== End of Excerpt from SMART log ======= ==== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	" -image2"
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.34 DA-06-SATA28-IMAGE2

J.Z.J 4	DA-00-3A I AZO-IIVIAGEZ
Test Case DA-	06-SATA28-IMAGE2 Smart Version 2010/11/03
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.
ASSEL CIONS.	_
	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 are the same as the data acquired by the tool.
	AO-05 If the tool creates a multifile 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 boulet is allelanged B_I the dequisition process.
Togtor Name:	brl
Tester Name:	
Test Host:	McGarrett
Test Date:	Fri Feb 11 09:50:53 2011
Drives:	src(4B-SATA) dst (none) other (5A-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	<u>-</u>
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
Log	
Highlights:	===== Tool Settings: =====
	segmentation Partition Aligned
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 6985 2011-02-11 09:39 da-06-sata28-image2
	2 32256 2011-02-11 05:01 da-06-sata28-image2.image.001
	3 10737418240 2011-02-11 05:30 da-06-sata28-image2.image.002
	Total Total Control of the State of Sacara Lineage Times
	11 2147483648 2011-02-11 06:07 da-06-sata28-image2.image.010
	12 56404026880 2011-02-11 08:40 da-06-sata28-image2.image.011
	3 3
	13 25627 2011-02-11 08:40 da-06-sata28-image2.image.info
	====== Excerpt from SMART log ======
	Image Description
	Make and Model: ATA ST380815AS
	Serial Number: 6QZ5C9V5
	Device Sectors: 156,301,488
	SHA1 Span Hashes
•	

Test Case DA-	-06-SATA28-IMAGE2 Smart Version 2010/11/03	
	total span hash: 70cc62b4 3f6a41ca 4d6760aa 0b9b4c	:41 5d3f48e2
	IO Summary: (Time: Fri Feb 11 13:40:49 2011)	
	Bytes Read: 80,026,361,856	
	80,026,361,856 bytes written to image "da-06-sata28	
	80,026,361,856 bytes written to image "da-06-sata28-image2"	
	====== End of Excerpt from SMART log =======	
	===== Source drive rehash =====	
	Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	89B4C415D3F48E2
	Total (SIMI) OF BOALOG. TOCCOMMINE THE TOTAL OF THE TOTAL	
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.35 DA-06-SATA48

J.Z.JJ	DA-00-3A1A40
Test Case DA-	06-SATA48 Smart Version 2010/11/03
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-03 The tool executes in execution environment AE. 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 are the same as the data acquired by the tool.
	AO-05 If the tool creates a multifile image of a requested size then all
	the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Thu Feb 10 09:33:49 2011
Drives:	src(OD-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73BD41D228C1377 >
Setup:	src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411E40C9 >
	488397168 total sectors (250059350016 bytes) 30400/254/63 (max cyl/hd values)
	30400/254/03 (max cyr/nd values) 30401/255/63 (number of cyl/hd)
	Model (WDC WD2500JD-22F) serial # (WD-WMAEH2678216)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 488375937 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 488375937 sectors 250048479744 bytes
	-
Log	
Highlights:	===== Tool Settings: =====
	segmentation Standard
	OC. Linux abanta 2.6.22.21 conoxia #22 Haunta CMD Exi Any 16 00:10:02 HEG
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	ZOTO TOOO GNO/DIRUX
	===== Image file segments =====
	1 3225 2011-02-10 15:00 da-06-sata48
	2 250059350016 2011-02-10 14:46 da-06-sata48.image.001
	3 4720 2011-02-10 14:46 da-06-sata48.image.info
	====== Excerpt from SMART log =======
	Image Description
	Make and Model: ATA WDC WD2500JD-22F
	Serial Number: WD-WMAEH2678216
	Device Sectors: 488,397,168
	SHA1 Span Hashes
	total span hash: baad80e8 781e55f2 e3ef528c a73bd41d 228c1377
	TO Commence (Milwest Miles Dels 10 14:46:01 0011)
	IO Summary: (Time: Thu Feb 10 14:46:21 2011)
	Bytes Read: 250,059,350,016
	250,059,350,016 bytes written to image "da-06-sata48"
	====== End of Excerpt from SMART log ======
	Sourge drive rehagh
	====== Source drive rehash ====== Rehash (SHA1) of source: BAAD80E8781E55F2E3EF528CA73BD41D228C1377

Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE.	Actual Result as expected as expected as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected as expected
	AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct. AO-24 Source is unchanged by acquisition.	as expected as expected
	2 2 2	
Analysis:	Expected results achieved	

5.2.36 DA-06-SCSI

	06-SCSI Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Tue Feb 8 15:03:13 2011
Drives:	src(E0) dst (none) other (3A-SATA)
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 >
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 >
	Reference SHA1 hashes, Win size: 4193792 (sectors) 1
Log Highlights:	===== Tool Settings: ===== segmentation Fixed Size(2GB) OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ====== 1
	Image Description Make and Model: QUANTUM ATLAS10K2-TY092J Serial Number: 169028142436 Device Sectors: 17,938,985 SHA1 Span Hashes
	total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 SHA1 Segment-Delimited Span Hashes 1 0 - 2147221503: e6589bb7 f40df7b5 c62c7f81 737e9d35 54be158d 2 2147221504 - 4294443007: e5ff0e39 54874b5a 69bb5415 1670a76d da493d9f 3 4294443008 - 6441664511: 674b4018 8b6e2345 6cb3alef cfb4cf5a

Test Case DA-0	06-SCSI Smart Version 2010/11/03	
	6425fbc3 4 6441664512 - 8588886015: 96d57d71 f13bf2f6 d 30cf758a 5 8588886016 - 9184760319: f0a0f715 c3e17726 d b58dc89a IO Summary:(Time: Tue Feb 8 15:32:02 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to image "da-06-scsi" ====== End of Excerpt from SMART log ====== ===== Source drive rehash ===== Rehash (SHA1) of source: 4A6941F1337A8A22B10FC844B45	lab36bde 9580cd40
Results:	Assertion and Expected Result AM-01 Source acquired using interface AI. AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct. AO-24 Source is unchanged by acquisition.	Actual Result as expected
Analysis:	Expected results achieved	

5.2.37 DA-06-USB

J.Z.J1	DA-00-03B
Test Case DA-	06-USB Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all
	the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Fri Feb 11 08:49:44 2011
Drives:	src(63-FU2) dst (none) other (3A-SATA)
Source	src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B >
	src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC >
Setup:	117304992 total sectors (60060155904 bytes)
	Model (SP0612N) serial # ()
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 004192902 0000/001/01 0260/254/63 Boot 06 Fat16
	2 X 004192965 113097600 0261/000/01 1023/254/63 0F extended
	3 S 000000063 113097537 0261/001/01 1023/254/63 0B Fat32
	4 S 000000000 000000000 0000/000/00 0000/000/00 00
	5 P 000000000 000000000 0000/000/00 0000/000/00 00
	6 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 004192902 sectors 2146765824 bytes
	3 113097537 sectors 57905938944 bytes
Log	
Highlights:	===== Tool Settings: =====
1119111191100	segmentation Standard
	Segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	ZOTO TOOO GMO/DITIUA
	===== Image file segments =====
	1 3410 2011-02-11 12:31 da-06-usb
	2 60060155904 2011-02-11 11:35 da-06-usb.image.001
1	3 7492 2011-02-11 11:35 da-06-usb.image.info
	====== Excerpt from SMART log =======
	Image Description
	Make and Model: SAMSUNG SP0612N
	Device Sectors: 117,304,992
	SHA1 Span Hashes
	total span hash: f7069edc beac863c 88deced8 2159f22d a96be99b
	Line Land Line Line Land Code Code Code Line Land Code Code Code Code Code Code Code Cod
	IO Summary:(Time: Fri Feb 11 11:35:42 2011)
	Bytes Read: 60,060,155,904
	60,060,155,904 bytes written to image "da-06-usb"
	====== End of Excerpt from SMART log =======
	===== Source drive rehash ======
	Rehash (SHA1) of source: F7069EDCBEAC863C88DECED82159F22DA96BE99B
1	.,

	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected

5.2.38 DA-07-CF

Test Case DA-	07-CF Smart Version 2010/11/03
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.
ASSELCIONS.	_
	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 multifile 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.
	<u> </u>
Tester Name:	brl
Test Host:	Max
Test Date:	Tue Feb 15 09:43:07 2011
Drives:	src(C1-CF) dst (none) other (3A-SATA)
Source	src hash (SHA1): < 5B8235178DF99FA307430C088F81746606638A0B >
Setup:	<pre>src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC16D78 ></pre>
	Reference MD5 hashes, Win size: 245248 (sectors)
	1 0 - 245247 DFB67FA9539278F2B167407E05C88458 -
	2 245248 - 490495 71E39B26895582AE06DA7CF2CC113865 -
	3 490496 - 735743 6F545BC113A824B0E57B7E699C23DA06 -
	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
	1 000033477 Sectors 20413400 Dytes
Tog	
Log	The I Contribute
Highlights:	===== Tool Settings: =====
	segmentation Fixed Size (120 MB)
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 3464 2011-02-15 05:10 da-07-cf
	2 125566976 2011-02-15 04:55 da-07-cf.image.001
	3 125566976 2011-02-15 04:57 da-07-cf.image.002
	4 6815744 2011-02-15 04:58 da-07-cf.image.003
	5 4161 2011-02-15 04:58 da-07-cf.image.info
	====== Excerpt from SMART log =======
	Image Description
	Make and Model: USB2.0 HS-CF
	Device Sectors: 503,808
	FS Type: FAT32
	OS FS Type: vfat
	Volume Name: NO NAME
	Max. Filesize: 2.000 GB

Test Case DA-	07-CF Smart Version 2010/11/03	
	MD5 Span Hashes total span hash: 776df8b4d2589e21debcf589edc16d78 MD5 Segment-Delimited Span Hashes 1 0 - 125566975: dfb67fa9539278f2b167407e05c882 2 125566976 - 251133951: 71e39b26895582ae06da33 251133952 - 257949695: 6f545bc113a824b0e57b3 IO Summary:(Time: Tue Feb 15 09:58:04 2011) Bytes Read: 257,949,696 257,949,696 bytes written to image "da-07-cf" ======= End of Excerpt from SMART log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 5B8235178DF99FA307430C088F	7cf2cc113865 7e699c23da06
Results:	Described and Described Described	L Natural Barrella
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected
		as expected
	AO-22 Tool calculates hashes by block.	as expected
	AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected as expected
	AO-22 Tool calculates hashes by block.	as expected
Analysis:	AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected as expected

5.2.39 DA-07-EXT2

J.Z.J3		
Test Case DA-	07-EXT2 Smart Version 2010/11/03	
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 multifile image of a requested size then all	
	the individual files shall be no larger than the requested size.	
	AO-22 If requested, the tool calculates block hashes for a specified block	
	size during an acquisition for each block acquired from the digital source.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
	AO-24 If the tool executes in a forensically safe execution environment,	
	the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Mon Feb 28 13:52:20 2011	
Drives:	src(43) dst (none) other (3A-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	7.5	
	Reference SHA1 hashes, Win size: 4193792 (sectors) 2147221504 (bytes)	
	1 0 - 4193791 3E62C6B5B7F62262E670857BEAD459ED1A968214 -	
	2 4193792 - 8387583 A804E0B2935D9E457E26359ED0CDFA8AD4B53496 - 3 8387584 - 10490381 D9406898C56FB4B179014175A05CC694416EA626 -	
	3 8387584 - 10490381 D9406898C56FB4B179014175A05CC694416EA626 - 78125000 total sectors (4000000000 bytes)	
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
	43ext2-md5sum 5371075583 C7A84DE9ACBCB05463604CE8823D0874	
	43ext2-sha1sum 5371075583 283BCC32DE892C12C37698AF7E38703619E57F57	
Tan		
Log Highlights:	===== Tool Settings: =====	
migniigon.	segmentation Transport Media (2GB)	
	begmenedeton reard (200)	

```
Test Case DA-07-EXT2 Smart Version 2010/11/03
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ===== Image file segments =====
               1
                      1034 2011-02-28 14:43 da-07-ext2
                      2147221504 2011-02-28 14:03 da-07-ext2.image.001
               2
               3
                      2147221504 2011-02-28 14:11 da-07-ext2.image.002
                      1076632576 2011-02-28 14:14 da-07-ext2.image.003
               5
                       4410 2011-02-28 14:14 da-07-ext2.image.info
              ====== Excerpt from SMART log =======
              SHA1 Span Hashes
               total span hash: 283bcc32 de892c12 c37698af 7e387036 19e57f57
              SHA1 Segment-Delimited Span Hashes
                     0 - 2147221503: 3e62c6b5 b7f62262 e670857b ead459ed 1a968214
               1
               2
                      2147221504 - 4294443007: a804e0b2 935d9e45 7e26359e d0cdfa8a
              d4b53496
                     4294443008 - 5371075583: d9406898 c56fb4b1 79014175 a05cc694
               3
              416ea626
              IO Summary: (Time: Mon Feb 28 14:14:58 2011)
              Bytes Read: 5,371,075,584
              5,371,075,584 bytes written to image "da-07-ext2"
              ====== End of Excerpt from SMART log =======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD93F325065E5871
Results:
               Assertion and Expected Result
                                                                    Actual Result
               AM-01 Source acquired using interface AI.
                                                                   as expected
               AM-02 Source is type DS.
                                                                   as expected
               AM-03 Execution environment is XE.
                                                                   as expected
               AM-05 An image is created on file system type FS.
                                                                   as expected
               AM-06 All visible sectors acquired.
                                                                   as expected
               AM-08 All sectors accurately acquired.
                                                                   as expected
               AO-01 Image file is complete and accurate.
                                                                   as expected
               AO-05 Multifile image created.
                                                                   as expected
               AO-22 Tool calculates hashes by block.
                                                                   as expected
               AO-23 Logged information is correct
                                                                   as expected
               AO-24 Source is unchanged by acquisition.
                                                                   as expected
             Expected results achieved
Analysis:
```

5.2.40 DA-07-F12

Test Case DA-0	07-F12 Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Tue Mar 1 13:41:22 2011
Drives:	src(43) dst (none) other (3A-SATA)
Source	src (43) dst (none) other (3A-SATA) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
	,
Setup:	Src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 000132067 1023/001/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 7 S 00000063 004192905 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 05 extended 11 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 0027712125 1023/000/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00
Log Highlights:	====== Tool Settings: ====== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments =====

Test Case DA-	07-F12 Smart Version 2010/11/03	
	1 2897 2011-03-01 13:57 da-07-f12 2 16418304 2011-03-01 13:52 da-07-f12.image.00 3 2384 2011-03-01 13:52 da-07-f12.image.info ======= Excerpt from SMART log =======	
	FS Type: FAT12 OS FS Type: vfat Volume Name: F12 Max. Filesize: 2.000 GB	
	SHA1 Span Hashes total span hash: 6853b517 f50bf3cc aded3db5 feae08	cl 8c62fca0
	IO Summary: (Time: Tue Mar 1 13:52:14 2011) Bytes Read: 16,418,304 16,418,304 bytes written to image "da-07-f12" ====== End of Excerpt from SMART log =======	
Results:	===== Source drive rehash ===== Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD	93F325065E5871
Results.	Assertion and 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-00 All visible sectors acquired. AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	33	-
Analysis:	A0-24 Source is unchanged by acquisition. Expected results achieved	as expected

5.2.41 DA-07-F16

J.Z.41	DA-01-1 10		
Test Case DA-	07-F16 Smart Version 2010/11/03		
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all		
	the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block		
	size during an acquisition for each block acquired from the digital source.		
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	McGarrett		
Test Date:	Tue Mar 1 15:30:22 2011		
Drives:	src(01-IDE) dst (none) other (3A-SATA)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >		
БССФ.	ble habit (hbs): 1 1301073071733110110Hebbelee3010H		
	Reference MD5 hashes, Win size: 1330688 (sectors)		
	1 0 - 1330687 B5B8419FE6F5C18E13A0F7220A209659 -		
	2 1330688 - 2661375 8E3880213F96D4B4EF9D6D460B831B1B -		
	Reference SHA1 hashes, Win size: 1330688 (sectors)		
	1 0 - 1330687 66436779F2547289EB42CA2A724316410F7BE5AF -		
	2 1330688 - 2661375 5E6ACAD3878A057FC6AC00A5D526151789259D4D -		
	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 0C Fat32X		
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32 10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490345 1023/000/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027774192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
	01F16-md5 1077479423 8B24F3D793188AF2473F69B267AFDA42		
	01F16-sha1 1077479423 074BA831B10132F4BF9F86AFAB37CB7FEF482C7D		
Log			
	<u>.</u>		

Test Case DA-	Test Case DA-07-F16 Smart Version 2010/11/03		
Highlights:	===== Tool Settings: =====		
	segmentation Fixed Size (650 MB)		
	00. Thurston 0. C. 20. 01	16 00.10.00 HTG	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP F 2010 i686 GNU/Linux	ri Apr 16 08:10:02 01C	
	2010 1000 GNO/LINUX		
	===== Image file segments =====		
	1 4095 2011-03-01 16:00 da-07-f16		
	2 681312256 2011-03-01 15:50 da-07-fat16.image		
	3 396167168 2011-03-01 15:51 da-07-fat16.image		
	4 5730 2011-03-01 15:51 da-07-fat16.image.inf	-0	
	EXCCIPT IIOM BRAKT 109		
	FS Type: FAT16		
	OS FS Type: vfat		
	Volume Name: F16		
	Max. Filesize: 2.000 GB		
	SHA1 Span Hashes		
	total span hash: 074ba831 b10132f4 bf9f86af ab37cb	7f ef482c7d	
	MD5 Span Hashes		
	total span hash: 8b24f3d793188af2473f69b267afda42		
	MD5 Segment-Delimited Span Hashes	2650	
	1 0 - 681312255: b5b8419fe6f5c18e13a0f7220a209 2 681312256 - 1077479423: 8e3880213f96d4b4ef9d		
	2 001312230 1077479423: 00300021319004D40190	104400D031D1D	
	SHA1 Segment-Delimited Span Hashes		
	1 0 - 681312255: 66436779 f2547289 eb42ca2a 72	2431641 0f7be5af	
	2 681312256 - 1077479423: 5e6acad3 878a057f c6	5ac00a5 d5261517	
	89259d4d		
	IO Summary:(Time: Tue Mar 1 15:51:28 2011)		
	Bytes Read: 1,077,479,424		
	1,077,479,424 bytes written to image "da-07-fat16"		
	====== End of Excerpt from SMART log ======		
	_ , , , ,		
	====== Source drive rehash ====== Rehash (SHA1) of source: A48BB5665D6DC57C22DB68E2F7	22D101112DE22D0	
	Kengan (Shar) Of Source, WiodelingloopC2/C22DE00F2F/	ZUNJANOUF OZDJ	
Results:			
	Assertion and 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. AO-01 Image file is complete and accurate.	as expected as expected	
	AO-05 Multifile image created.	as expected	
	AO-22 Tool calculates hashes by block.	as expected	
	AO-23 Logged information is correct.	as expected	
	AO-24 Source is unchanged by acquisition.	as expected	
Analysis:	Expected results achieved		

5.2.42 DA-07-F32

Test Case DA-0	07-F32 Smart Version 2010/11/03
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
	3 ,
	file are the same as the data acquired by the tool.
	AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block
	size during an acquisition for each block acquired from the digital source.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
	AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Wed Mar 2 09:30:56 2011
Drives:	src(43) dst (none) other (3A-SATA)
Source	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >
	78125000 total sectors (4000000000 bytes)
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 4301789184 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 027712062 sectors 14188575744 bytes
	43F32-md5sum 4301789183 2C4D8D450E5AD28329F616D87114CCFE
	43F32-sha1sum 4301789183 72462489BCF79A98B59B6A8CD938FEB46FA2A781
	131 32 Bhatbam 1301/03103 /2102103Det / 7A70B33B0A0cD3301 BB101 AZA701
Log	
Highlights:	===== Tool Settings: =====
Highlights.	
	segmentation Standard
	OCT. Timus shorts 2.6.20.21 reposite #22.17burts GMD Fui has 16.00:10:02.17EG
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====

Test Case DA-	07-F32 Smart Version 2010/11/03	
	1 2903 2011-03-02 10:11 da-07-f32 2 4301789184 2011-03-02 09:42 da-07-f32.image. 3 2393 2011-03-02 09:42 da-07-f32.image.info ======= Excerpt from SMART log =======	.001
	FS Type: FAT32 OS FS Type: vfat Volume Name: F32 Max. Filesize: 2.000 GB	
	SHA1 Span Hashes total span hash: 72462489 bcf79a98 b59b6a8c d938fe	b4 6fa2a781
	IO Summary:(Time: Wed Mar 2 09:42:39 2011) Bytes Read: 4,301,789,184 4,301,789,184 bytes written to image "da-07-f32" ======= End of Excerpt from SMART log ========	
	====== Source drive rehash ====== Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD	93F325065E5871
Results:		
	Assertion and 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. AO-23 Logged information is correct.	option not tested as expected
	AO-24 Source is unchanged by acquisition.	as expected as expected
	A0-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.43 DA-07-F32X

J.Z. 4 J	DA-07-1 32X		
Test Case DA-	07-F32X Smart Version 2010/11/03		
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		
Assertions:	AM 01 The tool was agged intenfers CDC AT to agged the digital course		
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 are the same as the data acquired by the tool.		
	AO-05 If the tool creates a multifile image of a requested size then all		
	the individual files shall be no larger than the requested size.		
	The state of the s		
	AO-22 If requested, the tool calculates block hashes for a specified block		
	size during an acquisition for each block acquired from the digital source.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment,		
	the digital source is unchanged by the acquisition process.		
Tester Name:	brl		
Test Host:	McGarrett		
Test Date:	Wed Mar 2 11:40:54 2011		
Drives:	src(01-IDE) dst (none) other (3A-SATA)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >		
	Reference SHA1 hashes, Win size: 8388096 (sectors)		
	1 0 - 8388095 00C863AB485A389BA57D5CD73E0E0D7F6B2909D4 -		
	2 8388096 - 16776191 AD945E125ADB0C69FC7C0BD77E94111983CB718F -		
	3 16776192 - 25164287 C4FCFBA0B7403B529C494BD71936C2499617839A -		
	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 0C Fat32X		
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
	01F32X-md5 10742183423 B5BFD9CE3990C577EF89C5AFB925F947		
	01F32X-sha1 10742183423 30BA6CF583A176C5DB533E3A2F57BFD5A4A870C1		
Log			
Highlights:	===== Tool Settings: =====		
- -	segmentation Fixed Size (4 GB)		

```
Test Case DA-07-F32X Smart Version 2010/11/03
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ===== Image file segments =====
                       3506 2011-03-02 14:59 da-07-f32x
               1
                      4294705152 2011-03-02 14:43 da-07-f32x.image.001
               2
               3
                      4294705152 2011-03-02 14:49 da-07-f32x.image.002
                      2152773120 2011-03-02 14:52 da-07-f32x.image.003
               5
                       4307 2011-03-02 14:52 da-07-f32x.image.info
              ====== Excerpt from SMART log =======
              FS Type: FAT32
              OS FS Type: vfat
              Volume Name: F32X
              Max. Filesize: 2.000 GB
              SHA1 Span Hashes
               total span hash: 30ba6cf5 83a176c5 db533e3a 2f57bfd5 a4a870c1
              SHA1 Segment-Delimited Span Hashes
               1
                      0 - 4294705151: 00c863ab 485a389b a57d5cd7 3e0e0d7f 6b2909d4
               2
                      4294705152 - 8589410303: ad945e12 5adb0c69 fc7c0bd7 7e941119
              83cb718f
                     8589410304 - 10742183423: c4fcfba0 b7403b52 9c494bd7 1936c249
               3
              9617839a
              IO Summary: (Time: Wed Mar 2 14:52:41 2011)
              Bytes Read: 10,742,183,424
              10,742,183,424 bytes written to image "da-07-f32x"
              ====== End of Excerpt from SMART log ======
              ===== Source drive rehash ======
              Rehash (SHA1) of source: A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9
Results:
               Assertion and Expected Result
                                                                    Actual Result
               AM-01 Source acquired using interface AI.
                                                                   as expected
                AM-02 Source is type DS.
                                                                   as expected
               AM-03 Execution environment is XE.
                                                                   as expected
               AM-05 An image is created on file system type FS.
                                                                   as expected
               AM-06 All visible sectors acquired.
                                                                   as expected
               AM-08 All sectors accurately acquired.
                                                                   as expected
               AO-01 Image file is complete and accurate.
                                                                   as expected
               AO-05 Multifile image created.
                                                                   as expected
               AO-22 Tool calculates hashes by block.
                                                                   as expected
               AO-23 Logged information is correct.
                                                                   as expected
               A0-24 Source is unchanged by acquisition.
                                                                   as expected
Analysis:
             Expected results achieved
```

5.2.44 DA-07-NTFS

Test Case DA-	07-NTFS Smart Version 2010/11/03	
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Thu Mar 3 10:03:28 2011	
Drives:	src(43) dst (none) other (3A-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	Src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended 3 S 00000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192905 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 11 S 00000063 004408401995 1023/001/01 1023/254/63 05 extended 12 X 025222050 004209030 1023/001/01 1023/254/63 05 extended 13 S 00000063 010490382 1023/001/01 1023/254/63 05 extended 13 S 00000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 00000063 004208967 1023/001/01 1023/254/63 05 extended 13 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712125 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 000000000 000000000 0000/000/00 0000/000/00 00	
Log Highlights:	===== Tool Settings: ===== segmentation Fixed Size (15 GB) OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux	
	ZOTO TOOO GNO/HIMA	

Test Case DA-0	07-NTFS Smart Version 2010/11/03	
	===== Image file segments ===== 1	•
	FS Type: NTFS OS FS Type: ntfs Volume Name: NT Max. Filesize: 17592.000 GB	
	SHA1 Span Hashes total span hash: 73eb2d27 564b060d b796efb7 8694a1	0e 6b43d23f
	IO Summary:(Time: Thu Mar 3 10:25:53 2011) Bytes Read: 14,188,575,744 14,188,575,744 bytes written to image "da-07-ntfs" ======= End of Excerpt from SMART log =======	
	====== Source drive rehash ====== Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD	93F325065E5871
Results:		
	Assertion and 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
ļ	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.45 DA-07-OSX

Test Case DA-	07-OSX Smart Version 2010/11/03
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 are the same as the data acquired by the tool.
	AO-05 If the tool creates a multifile 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.
Togtor Name:	hrl
Tester Name: Test Host:	brl WoFat
Test Date:	Mon Feb 28 11:21:22 2011
Drives:	src(4B-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
-	156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSX-sha1 5368594432 3DE70998AD136E66CD09B9B4F2F5164E77B3B705
Log	Tool Settings'
Highlights:	===== Tool Settings: ===== segmentation Standard
	OC: Linux ubuntu 2 6 22 21 gonomia #22 IIbuntu CMD Firi 7 16 00:10:00 TMG
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments =====
	1 2884 2011-02-28 13:19 da-07-osx
	2 5368594432 2011-02-28 11:43 da-07-osx.image.001
	3 2367 2011-02-28 11:43 da-07-osx.image.info
	====== Excerpt from SMART log ======
	FS Type: HFS+
	OS FS Type: hfsplus
	Max. Filesize: 2.000 GB
	SHA1 Span Hashes
	total span hash: 3de70998 ad136e66 cd09b9b4 f2f5164e 77b3b705

Test Case DA	-07-OSX Smart Version 2010/11/03	
cabe bii	IO Summary: (Time: Mon Feb 28 11:43:28 2011)	
	Bytes Read: 5,368,594,432	
	5,368,594,432 bytes written to image "da-07-osx"	
	====== End of Excerpt from SMART log =======	
	===== Source drive rehash ======	
	Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	39B4C415D3F48E2
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	
MIGIYSIS.	Expected results achieved	

5.2.46 DA-07-OSXC

Test Case DA-0	07-OSXC Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile 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: Test Host:	brl WoFat
Test Host: Test Date:	WoFat
Drives:	src(4B-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended 7 S 000000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Tool Settings: ===== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ====== 1
	total span hash: 2d6303d7 4f9ede61 7639643d ccf41ec2 091d5f37

Test Case DA-07-OSXC Smart Version 2010/11/03		
	IO Summary:(Time: Tue Mar 1 14:23:07 2011) Bytes Read: 2,147,483,648 2,147,483,648 bytes written to image "da-07-osxc" ====== End of Excerpt from SMART log ======= ===== Source drive rehash ====== Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	39B4C415D3F48E2
Results:		T
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
		3.5 C
Analysis:	Expected results achieved	

5.2.47 **DA-07-OSXCJ**

Test Case DA-	07-OSXCJ Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile 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: Test Host:	brl WoFat
Test Host:	Tue Mar 1 16:08:22 2011
Drives:	src(4B-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 00000039 004194304 1023/254/63 1023/254/63 AF other 6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended 7 S 000000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Tool Settings: ===== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ====== 1
	total span hash: 29ea0899 58ef2a69 5081712f fba68ba5 164c980b

Test Case DA-07-OSXCJ Smart Version 2010/11/03		
	IO Summary: (Time: Tue Mar 1 16:24:01 2011) Bytes Read: 2,147,483,648 2,147,483,648 bytes written to image "da-07-osxcj" ====== End of Excerpt from SMART log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	39B4C415D3F48E2
Results:	Instable and Remarked Popula	Actual Result
	Assertion and Expected Result AM-01 Source acquired using interface AI.	as expected
	AM-01 Source acquired using interface AI. AM-02 Source is type DS.	as expected as expected
	AM-02 Source is type Ds. AM-03 Execution environment is XE.	as expected as expected
	AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	_
		as expected
	AM-06 All visible sectors acquired.	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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.48 DA-07-OSXJ

Test Case DA-	07-OSXJ Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date: Drives:	Mon Feb 28 08:58:19 2011 src(4B-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5)</pre>
Log	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 O5 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 O5 extended 7 S 000000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 000000000 0000/000/00 0000/000/00 00
Highlights:	===== Tool Settings: ===== segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 2893 2011-02-28 09:18 da-07-osxj 2 10737418240 2011-02-28 09:18 da-07-osxj.image.001 3 2372 2011-02-28 09:18 da-07-osxj.image.info ======= Excerpt from SMART log ======= FS Type: HFS+ OS FS Type: hfsplus Max. Filesize: 2.000 GB SHA1 Span Hashes total span hash: 37311859 444bd914 edad43d9 3f2862e7 6b279a87

Test Case DA-	07-OSXJ Smart Version 2010/11/03	
	IO Summary: (Time: Mon Feb 28 09:18:07 2011)	
	Bytes Read: 10,737,418,240	
	10,737,418,240 bytes written to image "da-07-osxj"	
	====== End of Excerpt from SMART log =======	
	===== Source drive rehash =====	
	Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	9B4C415D3F48E2
Results:		
	Assertion and 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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.49 DA-07-OSXU

Test Case DA-	07-OSXU Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile 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.
	and the state of the adjustation process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Tue Mar 1 09:49:48 2011
Drives:	src(4B-SATA) dst (none) other (67-SATA)
Source Setup:	<pre>src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 > src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C ></pre>
-	156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes 5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSXU-sha1 3221225472 D102A01562C82533C052CE6CFBB1D467EC9B5BC6
Log	Total Continued
Highlights:	===== Tool Settings: ===== segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 2908 2011-03-01 10:13 da-07-osxu
	2 3221225472 2011-03-01 10:00 da-07-osxu.image.001
	3 2392 2011-03-01 10:00 da-07-osxu.image.info ======= Excerpt from SMART log =======
	FS Type: UFS
	OS FS Type: ufs
	Volume Name: OSXU Max. Filesize: 2.000 GB
	rian. ritebiae. 2.000 GD
	SHA1 Span Hashes
	total span hash: d102a015 62c82533 c052ce6c fbb1d467 ec9b5bc6

Test Case DA-07-OSXU Smart Version 2010/11/03		
	IO Summary:(Time: Tue Mar 1 10:00:41 2011) Bytes Read: 3,221,225,472 3,221,225,472 bytes written to image "da-07-osxu" ====== End of Excerpt from SMART log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 70CC62B43F6A41CA4D6760AA0B	39B4C415D3F48E2
Results:	Assessment and Remorated Popular	Actual Result
	Assertion and Expected 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 bs. AM-03 Execution environment is XE.	as expected as expected
	AM-05 Am image is created on file system type FS.	as expected as expected
	AM-05 All visible sectors acquired.	as expected as expected
	AM-08 All sectors accurately acquired.	as expected as expected
	AO-01 Image file is complete and accurate.	as expected as expected
	AO-01 Image life is complete and accurate. AO-05 Multifile image created.	as expected as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.50 DA-07-PART

Test Case DA-	07-PART Smart Version 2010/11/03
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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment,
	the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Thu Mar 3 11:18:10 2011
Drives: Source	<pre>src(D5-THUMB) dst (none) other (5A-SATA) src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08FDC53E38A ></pre>
Setup:	src hash (MD5): < C843593624B2B3B878596D8760B19954 >
	Reference SHA1 hashes, Win size: 81408 (sectors)
	1 0 - 81407 D5C035F4AD3BDDC18255F402C52B7B722ED23B70 -
	2 81408 - 162815 06A786B45A8995D2CA5E377B08073080F5E12EEE - 3 162816 - 244223 3061D34425F177504444D711731A5FBD73FE55FB -
	4 244224 - 325631 62AA71381E93B0D6EA026A048F23ABD232ECE3ED -
	5 325632 - 407039 DB8A599ECD7666EB4B33AA67D928F27F9BF34233 -
	6 407040 - 488447 392664CE2CDDFA62C687A430A4628D3C9ACCCE09 -
	7 488448 - 569855 4EC26AADA68187FA625F355FE58F55D0129841DE - 505856 total sectors (258998272 bytes)
	Model (usb2.0Flash Disk) serial # ()
Log Highlights:	===== Tool Settings: =====
нідпітдпсь.	segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments =====
	1 2911 2011-03-03 11:34 da-07-part
	2 41680896 2011-03-03 11:26 da-07-part.image.001
	3 2102 2011-03-03 11:26 da-07-part.image.info ====== Excerpt from SMART log =======
	Image Description Make and Model: CRUCIAL usb2.0Flash Disk Device Sectors: 505,856
	SHA1 Span Hashes total span hash: 06a786b4 5a8995d2 ca5e377b 08073080 f5e12eee
	IO Summary: (Time: Thu Mar 3 11:26:56 2011) Bytes Read: 41,680,896 41,680,896 bytes written to image "da-07-part"
	====== End of Excerpt from SMART log ======
	===== Source drive rehash =====

	Rehash (SHA1) of source: D68520EF74A336E49DCCF83815	B7B08FDC53E38A
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.51 DA-07-SWAP

Test Case DA-	07-SWAP Smart Version 2010/11/03	
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 fil	
	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 are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Wed Mar 2 15:48:38 2011	
Drives: Source	<pre>src(43) dst (none) other (3A-SATA) src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 ></pre>	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	78125000 total sectors (4000000000 bytes)	
	Model (OBB-75JHCO) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended 7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/000/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
	43swap-md5sum 2154991103 4B602964A30FE20D1B22B046A7375A7C	
	43swap-sha1sum 2154991103 F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF	
Log		
Highlights:	===== Tool Settings: ===== segmentation Standard	
	segmentation standard	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC	
	2010 i686 GNU/Linux	
	<u>I</u>	

Test Case DA-	07-SWAP Smart Version 2010/11/03	
	===== Image file segments ===== 1	
	SHA1 Span Hashes total span hash: 18b73d89 2d772b88 437ce039 2e1732ca 8fe2a2f4	
	IO Summary:(Time: Wed Mar 2 15:58:31 2011) Bytes Read: 2,154,991,104 2,154,991,104 bytes written to image "da-07-swap" ======= End of Excerpt from SMART log ========	ı
	===== Source drive rehash ===== Rehash (SHA1) of source: 888E2E7F7AD237DC7A73228	lDD93F325065E5871
Results:		
	Assertion and 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-05 An image is created on file system type	as expected as expected
	T FG	
	FS. AM-06 All visible sectors acquired	as expected
	AM-08 All sectors accurately acquired.	as expected last seven sectors differ
	AM-06 All visible sectors acquired.	last seven sectors
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired.	last seven sectors differ
	AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	last seven sectors differ as expected
	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.	last seven sectors differ as expected as expected
	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.	last seven sectors differ as expected as expected option not tested
	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.	last seven sectors differ as expected as expected option not tested as expected

5.2.52 **DA-07-THUMB**

Test Case DA-	07-THUMB Smart Version 2010/11/03
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 multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Tue Feb 15 13:44:22 2011
Drives:	src(D5-THUMB) dst (none) other (3A-SATA)
Source Setup:	<pre>src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08FDC53E38A > src hash (MD5): < C843593624B2B3B878596D8760B19954 ></pre>
	Reference SHA1 hashes, Win size: 81408 (sectors) 1
Log Highlights:	===== Tool Settings: ===== segmentation Fixed Size (40 MB) OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments =====
	1 4257 2011-02-15 14:17 da-07-thumb 2 41680896 2011-02-15 14:06 da-07-thumb.image.001 3 41680896 2011-02-15 14:07 da-07-thumb.image.002 7 41680896 2011-02-15 14:10 da-07-thumb.image.006 8 8912896 2011-02-15 14:11 da-07-thumb.image.007 9 7330 2011-02-15 14:11 da-07-thumb.image.info ======= Excerpt from SMART log ====== Image Description Make and Model: CRUCIAL usb2.0Flash Disk Device Sectors: 505,856 FS Type: FAT32 OS FS Type: vfat Volume Name: NO NAME
	Max. Filesize: 2.000 GB SHA1 Span Hashes

TODE CADE DA-	07-THUMB Smart Version 2010/11/03	
	total span hash: d68520ef 74a336e4 9dccf838 15b7b0	8f dc53e38a
	SHA1 Segment-Delimited Span Hashes 1	377b 08073080 f5e12eee 4d711 731a5fbd 73fe55fb 33aa67 d928f27f 9bf34233 87a430 a4628d3c 9accce09
	===== Source drive rehash =====	
	Rehash (SHA1) of source: D68520EF74A336E49DCCF83815	B7B08FDC53E38A
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	
		as expected
	AM-02 Source is type DS.	as expected as expected
	AM-02 Source is type DS.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE.	as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS.	as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired.	as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected as expected as expected as expected as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block.	as expected
	AM-02 Source is type DS. AM-03 Execution environment is XE. AM-05 An image is created on file system type FS. AM-06 All visible sectors acquired. AM-08 All sectors accurately acquired. AO-01 Image file is complete and accurate. AO-05 Multifile image created. AO-22 Tool calculates hashes by block. AO-23 Logged information is correct.	as expected

5.2.53 DA-08-ATA28

Test Case DA-	08-ATA28 Smart Version 2010/11/03
Case	DA-08 Acquire a physical drive with hidden sectors to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-07 All hidden sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Wed Feb 16 09:45:34 2011
Drives:	src(42) dst (none) other (67-SATA)
Source Setup:	<pre>src hash (SHA1): < 5A75399023056E0EB905082B35F8FAA1DB049229 > src hash (MD5): < F4B9AAB24554EEB2A962BDA554A9252 > 78165360 total sectors (40020664320 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400JB-00JJC0) serial # (WD-WCAMA3958512) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 070348572 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Tool Settings: ====== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 3219 2011-02-16 11:03 da-08-ata28 2 40020664320 2011-02-16 10:48 da-08-ata28.image.001 3 4712 2011-02-16 10:48 da-08-ata28.image.info ======= Excerpt from SMART log ======== Image Description
	Make and Model: ATA WDC WD400JB-00JJ Serial Number: WD-WCAMA3958512

Test Case Di	A-08-ATA28 Smart Version 2010/11/03	
	Device Sectors: 78,165,360	
	SHA1 Span Hashes	
	total span hash: 5a753990 23056e0e b905082b 35f8fa	aal db049229
	IO Summary: (Time: Wed Feb 16 10:48:46 2011)	
	Bytes Read: 40,020,664,320 40,020,664,320 bytes written to image "da-08-ata28" ======= End of Excerpt from SMART log =======	
	===== Source drive rehash =====	
	Rehash (SHA1) of source: 5A75399023056E0EB905082B35	F8FAA1DB049229
Results:		
Results:	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.54 DA-08-DCO

Test Case DA-0	08-DCO Smart Version 2010/11/03
Case Summary:	DA-08 Acquire a physical drive with hidden sectors to an image file.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-07 All hidden sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Wed Feb 16 13:28:35 2011
Drives:	src(15-SATA) dst (none) other (67-SATA)
Source	src hash (SHA1): < 76B22DDE84CE61F090791DDBB79057529AAF00E1 >
Setup:	src hash (MD5): < 9B4A9D124107819A9CE6F253FE7DC675 > 156301488 total sectors (80026361856 bytes) Model (0JD-00HKA0) serial # (WD-WMAJ91513490)
	DCO Created with Maximum LBA Sectors = 140,000,000 Hashes with DCO in place: md5: E5F8B277A39ED0F49794E9916CD62DD9 shal: AC64CF1B3736BB2FE40C14D871E6F207BC432C2F
Log Highlights:	===== Tool Settings: ====== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ===== 1
	total span hash: ac64cf1b 3736bb2f e40c14d8 71e6f207 bc432c2f IO Summary:(Time: Wed Feb 16 14:53:24 2011) Bytes Read: 71,680,000,512 71,680,000,512 bytes written to image "da-08-dco" ====== End of Excerpt from SMART log ======= ===== Source drive rehash ====== Rehash (SHA1) of source: AC64CF1B3736BB2FE40C14D871E6F207BC432C2F

Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	DCO not acquired
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected

5.2.55 **DA-08-SATA48**

Test Case DA-	08-SATA48 Smart Version 2010/11/03
Case	DA-08 Acquire a physical drive with hidden sectors to an image file.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-07 All hidden sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Wed Feb 16 10:22:32 2011
Drives:	src(1E-SATA) dst (none) other (68-SATA)
Source	src hash (SHA1): < 3E7439D9E99ACD030B969C1BE5B1430BF7183573 >
Setup:	src hash (MD5): < 8E1CF5E20E86362E0EACF12EDDEF42A6 >
	625142448 total sectors (320072933376 bytes)
	38912/254/63 (max cyl/hd values) 38913/255/63 (number of cyl/hd) Model (ST3320620AS) serial # (5QF3X4F6)
	HPA created
	HPA Created with Maximum LBA Sectors = 560,000,000 Hashes with HPA in place md5: 3655FA5086B6864154898533DFAE2442 shal: EB1045B57DE7CDA28FE9504E3FA238D0B5DBC587
Log Highlights:	===== Tool Settings: ===== segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Image file segments ====== 1 2990 2011-02-16 16:00 da-08-sata48
	2 320072933376 2011-02-16 15:52 da-08-sata48.image.001 3 2247 2011-02-16 15:52 da-08-sata48.image.info ======= Excerpt from SMART log =======
	Image Description Make and Model: ATA ST3320620AS Serial Number: 5QF3X4F6 Device Sectors: 625,142,448
	SHAl Span Hashes total span hash: 3e7439d9 e99acd03 0b969c1b e5b1430b f7183573
	IO Summary:(Time: Wed Feb 16 15:52:56 2011) Bytes Read: 320,072,933,376 320,072,933,376 bytes written to image "da-08-sata48" ======= End of Excerpt from SMART log ========

	===== Source drive rehash ===== Rehash (SHA1) of source: 3E7439D9E99ACD030B969C1BE5	B1430BF7183573
Results:	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-07 All hidden sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.56 **DA-09**

Test Case DA	-09 Smart Version 2010/11/03
Case	DA-09 Acquire a digital source that has at least one faulty data sector.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AM-09 If unresolved errors occur while reading from the selected digital source, the tool notifies the user of the error type and location within the digital source. AM-10 If unresolved errors occur while reading from the selected digital source, the tool uses a benign fill in the destination object in place of the inaccessible data. AO-01 If the tool creates an image file, the data represented by the image file are the same as the data acquired by the tool. AO-05 If the tool creates a multifile 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
Tester	digital source is unchanged by the acquisition process.
Name:	
Test Host:	Max
Test Date:	Wed Feb 16 15:35:10 2011
Drives: Source	src(ED-BAD-CPR4) dst (24-SATA) other (none) No before hash for ED-BAD-CPR4
Setup:	<pre>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, 14778650, 14778668, 14778669, 14778709, 14778727, 14778747, 14778772, 14778781, 14778870, 14778949, 14778953, 14779038, 14779113, 14779321</pre>
Log Highlights:	===== Destination drive setup ===== 156301488 sectors wiped with 24
	===== Comparison of original to clone drive ====== Sectors compared: 120103200 Sectors match: 120102768 Sectors differ: 432 Bytes differ: 220752 Diffs range 6160328-6160535, 10041152-10041159, 10041992-10041999, 10118632-10118639, 10209448-10209455, 11256568-11256575, 14115688-14115695, 14778384-14778399, 14778448-14778455, 14778472-14778479, 14778512-14778527, 14778544-14778551, 14778600-14778607, 14778624-14778631, 14778648-14778655, 14778664-14778671, 14778704-14778711, 14778720-14778727, 14778744-14778751, 14778768-14778783, 14778864-14778871, 14778944-14778959, 14779032-14779039, 14779112-14779119,

```
Test Case DA-09 Smart Version 2010/11/03
              14779320-14779327
              Source (120103200) has 36198288 fewer sectors than destination (156301488)
              Zero fill: 0
              Src Byte fill (ED): 0
              Dst Byte fill (24): 36198288
              Other fill: 0
              Other no fill: 0
              Zero fill range:
              Src fill range:
              Dst fill range: 120103200-156301487
              Other fill range:
              Other not filled range:
              O source read errors, O destination read errors
              OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
              2010 i686 GNU/Linux
              ====== Excerpt from SMART log =======
             SHA1 Span Hashes
               total span hash: d9c6f034 cd8d6867 9f64f0df c4988002 f613c452
                      Logged Error Runs
              Run Start Run End Run Length
              byte sector byte sector sector
              3154087936 6160328 3154194431 6160535 208
              5141069824 10041152 5141073919 10041159 8
              5141499904 10041992 5141503999 10041999 8
              5180739584 10118632 5180743679 10118639 8
              5227237376 10209448 5227241471 10209455 8
              5763362816 11256568 5763366911 11256575 8
              7227232256 14115688 7227236351 14115695 8
              7566532608 14778384 7566540799 14778399 16
              7566565376 14778448 7566569471 14778455 8
              7566577664 14778472 7566581759 14778479 8
              7566598144 14778512 7566606335 14778527 16
              7566614528 14778544 7566618623 14778551 8
              7566643200 14778600 7566647295 14778607 8
              7566655488 14778624 7566659583 14778631 8
              7566667776 14778648 7566671871 14778655 8
              7566675968 14778664 7566680063 14778671 8
              7566696448 14778704 7566700543 14778711 8
              7566704640 14778720 7566708735 14778727 8
              7566716928 14778744 7566721023 14778751 8
              7566729216 14778768 7566737407 14778783 16
              7566778368 14778864 7566782463 14778871 8
              7566819328 14778944 7566827519 14778959 16
              7566864384 14779032 7566868479 14779039 8
              7566905344 14779112 7566909439 14779119 8
              7567011840 14779320 7567015935 14779327 8
              IO Summary: (Time: Thu Feb 17 11:33:38 2011)
              Bytes Read: 61,492,838,400
              61,492,838,400 bytes written to /dev/sda
              ====== End of Excerpt from SMART log =======
Results:
               Assertion and 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
                                                                   as expected
               AM-09 Error logged.
                                                                   as expected
               AM-10 Benign fill replaces inaccessible sectors.
                                                                  as expected
```

Test Case Da	A-09 Smart Version 2010/11/03	
	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 tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
		_
Analysis:	Expected results not achieved	

5.2.57 **DA-10-GZIP**

J.Z.J1	
Test Case DA-	10-GZIP Smart Version 2010/11/03
Case Summary:	DA-10 Acquire a digital source to an image file in an alternate format.
Assertions:	AM-01 The tool uses access interface SRC-AI to 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 are the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file in the specified format. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Thu Feb 17 15:32:43 2011
Drives:	src(41) dst (none) other (68-SATA)
Source	src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >
Setup:	src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C >
_	78125000 total sectors (40000000000 bytes)
	65534/015/63 (max cyl/hd values)
	65535/016/63 (number of cyl/hd)
	IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS
	2 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 P 000000000 000000000 0000/000/00 0000/000/00 00
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 078107967 sectors 39991279104 bytes
	_
Log	
Highlights:	===== Tool Settings: =====
	segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	===== Image file segments =====
	1 3209 2011-02-18 08:32 da-10-gzip
	2 913568945 2011-02-17 16:38 da-10-gzip.image.001.gz
	3 4940 2011-02-17 16:38 da-10-gzip.image.info
	====== Excerpt from SMART log ======
	Image Description
	Make and Model: ATA WDC WD400BB-75JH
	Serial Number: WD-WMAMC4658355
	Device Sectors: 78,125,000
	OVAL On any Marsham
	SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9
	IO Summary: (Time: Thu Feb 17 16:38:47 2011) Bytes Read: 40,000,000,000
	40,000,000,000 bytes written to image "da-10-gzip"
	====== End of Excerpt from SMART log =======
	pur or profibe from pwart tod =======

	===== Source drive rehash ===== Rehash (SHA1) of source: 15CAA1A307271160D8372668BF	°8A03FC45A51CC9
Results:	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-02 Image file in specified format.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.58 DA-10-BZIP2

Test Case DA-	10-BZIP2 Smart Version 2010/11/03
Case	DA-10 Acquire a digital source to an image file in an alternate format.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to 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 are the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file in the specified format. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Thu Feb 17 09:29:34 2011
Drives:	src(41) dst (none) other (68-SATA)
Source Setup:	<pre>src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Highlights:	===== Tool Settings: ===== segmentation Standard OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ====== 1
	IO Summary:(Time: Thu Feb 17 10:29:35 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-10-bzip2" ====== End of Excerpt from SMART log =======

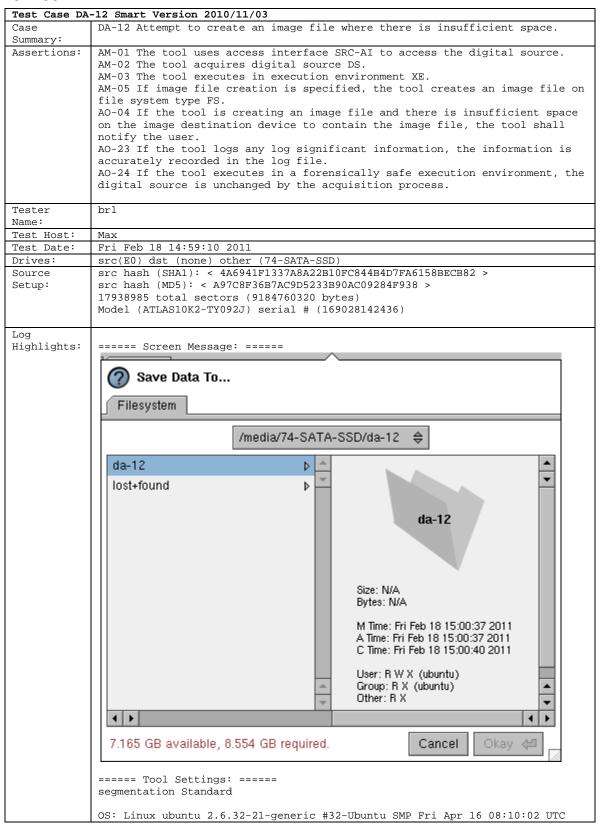
	===== Source drive rehash ===== Rehash (SHA1) of source: 15CAA1A307271160D8372668BF	°8a03FC45a51CC9
Results:	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-02 Image file in specified format.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.59 **DA-10-EWCOMPRESS**

Test Case DA-	10-EWCOMPRESS Smart Version 2010/11/03
Case	DA-10 Acquire a digital source to an image file in an alternate format.
Summary:	
Assertions:	AM-01 The tool uses access interface SRC-AI to 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 are the same as the data acquired by the tool. AO-02 If an image file format is specified, the tool creates an image file in the specified format. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size.
	AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Thu Feb 17 09:47:19 2011
Drives:	src(43) dst (none) other (67-SATA)
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>
secup.	78125000 total sectors (4000000000 bytes)
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32 10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended
	11 S 000000063 010490345 1023/000/01 1023/254/63 05 extended
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 004206967 Sectors 2134991104 Bytes 15 027712062 sectors 14188575744 bytes
	13 0212002 Beecold 111003/3/11 bjecs
Log	
Highlights:	===== Tool Settings: =====
	segmentation Standard
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux

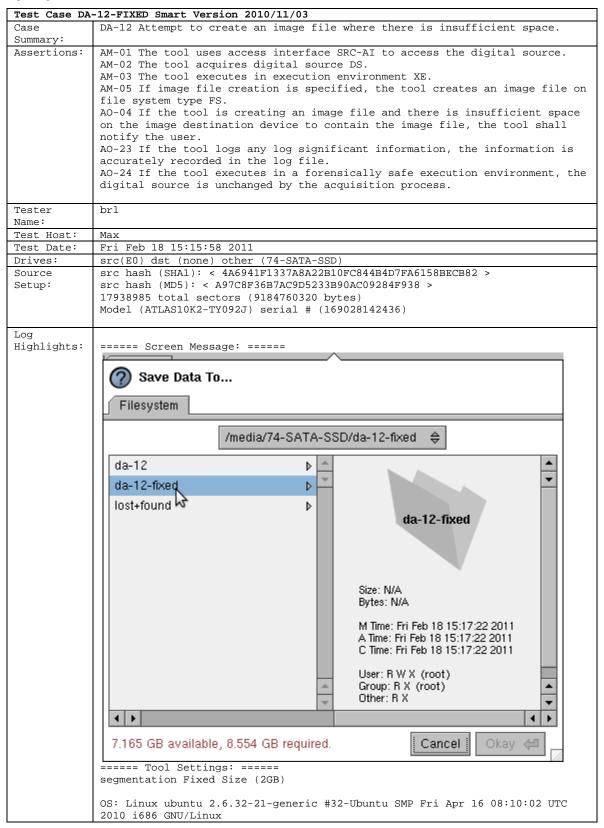
Test Case DA-	10-EWCOMPRESS Smart Version 2010/11/03	
	===== Image file segments ===== 1	<u> </u>
	Image Description Make and Model: ATA WDC WD400BB-75JH Serial Number: WD-WMAMC4658888 Device Sectors: 78,125,000	
	SHA1 Span Hashes total span hash: 888e2e7f 7ad237dc 7a732281 dd93f3	25 065e5871
	IO Summary: (Time: Thu Feb 17 11:12:27 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-10-ewcomp: ====== End of Excerpt from SMART log ======= ===== Source drive rehash ===== Rehash (SHA1) of source: 888E2E7F7AD237DC7A732281DD	
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AM-06 All visible sectors acquired.	as expected
	AM-08 All sectors accurately acquired.	as expected
	AO-01 Image file is complete and accurate.	as expected
	AO-02 Image file in specified format.	as expected
	AO-05 Multifile image created.	as expected
	AO-22 Tool calculates hashes by block.	option not tested
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	as expected
Analysis:	Expected results achieved	

5.2.60 DA-12



Test Case DA	-12 Smart Version 2010/11/03	
	2010 i686 GNU/Linux	
	====== Excerpt from SMART log ======	
	No logfile created	
	====== End of Excerpt from SMART log =======	
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AO-04 User notified if space exhausted.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

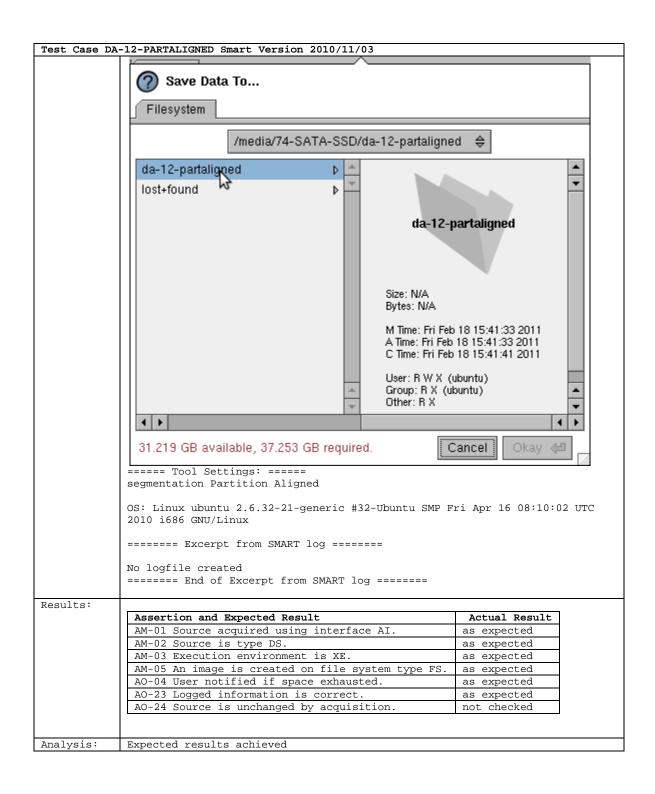
5.2.61 DA-12-FIXED



Test Case DA	-12-FIXED Smart Version 2010/11/03	
	====== Excerpt from SMART log ======	
	No logfile created ====== End of Excerpt from SMART log ======	
Results:		
	Assertion and Expected Result	Actual Result
	AM-01 Source acquired using interface AI.	as expected
	AM-02 Source is type DS.	as expected
	AM-03 Execution environment is XE.	as expected
	AM-05 An image is created on file system type FS.	as expected
	AO-04 User notified if space exhausted.	as expected
	AO-23 Logged information is correct.	as expected
	AO-24 Source is unchanged by acquisition.	not checked
Analysis:	Expected results achieved	

5.2.62 DA-12-PARTALIGNED

Test Case DA	t Case DA-12-PARTALIGNED Smart Version 2010/11/03		
Case	DA-12 Attempt to create an image file where there is insufficient space.		
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. AO-04 If the tool is creating an image file and there is insufficient space		
	on the image destination device to contain the image file, the tool shall notify the user.		
	AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.		
	AO-24 If the tool executes in a forensically safe execution environment, the		
	digital source is unchanged by the acquisition process.		
Tester	brl		
Name:			
Test Host:	Max		
Test Date:	Fri Feb 18 15:14:39 2011		
Drives:	src(43) dst (none) other (74-SATA-SSD)		
Source Setup:	<pre>src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 > src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>		
Secup.	78125000 total sectors (4000000000 bytes)		
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X		
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other 8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 00000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 00000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027712062 sectors 14188575744 bytes		
Tog			
Log Highlights:	===== Screen Message: =====		
	boroom Hopbago.		



5.2.63 **DA-13**

Test Case DA-	13 Smart Version 2010/11/03
Case Summary:	DA-13 Create an image file where there is insufficient space on a single volume, and use destination device switching to continue on another volume.
Assertions:	AM-01 The tool uses access interface SRC-AI to access the digital source. AM-02 The tool acquires digital source DS. AM-03 The tool executes in execution environment XE. AM-05 If image file creation is specified, the tool creates an image file on file system type FS. AM-06 All visible sectors are acquired from the digital source. AM-08 All sectors acquired from the digital source are acquired accurately. AO-01 If the tool creates an image file, the data represented by the image file is the same as the data acquired by the tool. AO-04 If the tool is creating an image file and there is insufficient space on the image destination device to contain the image file, the tool shall notify the user. AO-05 If the tool creates a multifile image of a requested size then all the individual files shall be no larger than the requested size. AO-10 If there is insufficient space to contain all files of a multifile image and if destination device switching is supported, the image is continued on another device. AO-22 If requested, the tool calculates block hashes for a specified block size during an acquisition for each block acquired from the digital source. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. AO-24 If the tool executes in a forensically safe execution environment, the digital source is unchanged by the acquisition process.
Tester Name:	brl
Test Host:	Max
Test Date:	Tue Feb 22 11:29:16 2011
Drives:	src(E0) dst (none) other (74-SATA-SSD)
Source Setup:	<pre>src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 ></pre>
	Reference SHA1 hashes, Win size: 14666304 (sectors) 7509147648 (bytes) 1 0 - 14666303 204B987D28A503DCD6AF42171FC057A3F1187D66 - 2 14666304 - 17938984 D025E559C154AD712EDF0BDC46DC81B84311A59A - 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436)
Log Highlights:	===== Tool Settings: ===== segmentation Transport Media
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments (First destination) ====== 1 1024 2011-02-22 13:18 da-13 2 7509147648 2011-02-22 13:00 da-13.image.001
	===== Image file segments (Final destination) ====== 1 1675612672 2011-02-22 13:12 da-13.image.002 2 3373 2011-02-22 13:12 da-13.image.info ======= Excerpt from SMART log =======
	SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 SHA1 Segment-Delimited Span Hashes 1 0 - 7509147647: 204b987d 28a503dc d6af4217 1fc057a3 f1187d66
	2 7509147648 - 9184760319: d025e559 c154ad71 2edf0bdc 46dc81b8 4311a59a

Test Case D	A-13 Smart Version 2010/11/03			
	IO Summary: (Time: Tue Feb 22 13:12:17 2011) Bytes Read: 9,184,760,320			
		9,184,760,320 bytes written to image "da-13"		
	====== End of Excerpt from SMART log ======			
	===== Source drive rehash =====			
	Rehash (SHA1) of source: 4A6941F1337A8A22B10FC844B4	D7F16159BFCB99		
	Reliabil (Bliat) Of Source: 4A0741F133/A0A22B10FC044B4	D/FA0130BECB0Z		
Results:				
	Assertion and Expected Result	Actual Result		
	AM-01 Source acquired using interface AI.	as expected		
	AM-02 Source is type DS.	as expected		
	AM-03 Execution environment is XE.	as expected		
	AM-05 An image is created on file system type FS.	as expected		
	AM-06 All visible sectors acquired.	as expected		
	AM-08 All sectors accurately acquired.	as expected		
	AO-01 Image file is complete and accurate.	as expected		
	AO-04 User notified if space exhausted.	as expected		
	AO-05 Multifile image created.	as expected		
	AO-10 Image file continued on new device.	as expected		
	AO-22 Tool calculates hashes by block.	as expected		
	AO-23 Logged information is correct.	as expected		
	AO-24 Source is unchanged by acquisition.	as expected		
		•		
Analysis:	Expected results achieved			

5.2.64 DA-14-ATA28

Summary: Assertions: AM-AO-AO-Clc AO-AO-Clc AO-AO-AO-Clc AO-AO-AO-AO-Clc AO-AO-AO-AO-AO-AO-AO-AO-AO-AO-AO-AO-AO-A	-14 Create an unaligned clone from an image file. -03 The tool executes in execution environment XE12 If requested, a clone is created from an image file13 A clone is created using access interface DST-AI to write to the one device14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. 13 Garrett -10 II GOI-IDE) dst (08-IDE) other (3C-SATA) -11 COI-IDE) dst (08-IDE) other (3C-SATA) -12 Chash (MD5): < F458F673894753FA6AOEC8B8EC63848E > 165360 total sectors (40020664320 bytes) -16 del (0BB-00JHCO) serial # (WD-WMAMC74171) -17 Start LBA Length Start C/H/S End C/H/S boot Partition type -18 P 000000063 020908027 0000/001/01 1023/254/63 0F extended -18 S 000000063 000032067 1023/001/01 1023/254/63 05 extended -19 S 000000063 002104452 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192965 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192905 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192905 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192905 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192965 1023/000/01 1023/254/63 05 extended -19 S 000000063 004192905 1023/000/01 1023/254/63 05 extended		
Assertions: AM-AO-AO-Clc AO-Clc AO-Cl	-12 If requested, a clone is created from an image file13 A clone is created using access interface DST-AI to write to the one device14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Garrett		
Tester Name: bri Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	-12 If requested, a clone is created from an image file13 A clone is created using access interface DST-AI to write to the one device14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. 13 Garrett		
Tester Name: bri Test Host: McC Test Date: Thu Drives: src Source setup: src Setup: src N 1 2 3 4 5 6 7	-13 A clone is created using access interface DST-AI to write to the one device14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. 1 Garrett		
Tester Name: bri Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	one device14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Barrett		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	-14 If an unaligned clone is created, each sector written to the clone is curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Garrett Generation (10:23:48 2011 C(01-IDE) dst (08-IDE) other (3C-SATA) c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHCO) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000132067 1023/001/01 1023/254/63 0F extended S 000000063 0021044515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 05 extended S 000136645 004192965 1023/000/01 1023/254/63 05 extended		
Tester Name: brl Test Host: McC Test Date: Thus Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	Curately written to the same disk address on the clone that the sector cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Garrett Garrett Gol-IDE) dst (08-IDE) other (3C-SATA) C hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > C hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHCO) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 00032067 1023/001/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	Cupied on the digital source17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. I Garrett I Feb 10 10:23:48 2011 C(01-IDE) dst (08-IDE) other (3C-SATA) C hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > C hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHCO) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/0000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 05 extended S 000136645 004192965 1023/000/01 1023/254/63 05 extended		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	-17 If requested, any excess sectors on a clone destination device are t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Garrett		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	t modified23 If the tool logs any log significant information, the information is curately recorded in the log file. Consider the considering the consid		
Tester Name: bri Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	-23 If the tool logs any log significant information, the information is curately recorded in the log file. Garrett Green Feb 10 10:23:48 2011 C(01-IDE) dst (08-IDE) other (3C-SATA) C hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > C hash (MD5): < F458F673894753FA6A0ECBB8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 00032067 1023/001/01 1023/254/63 05 extended S 000000063 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	Garrett Gar		
Tester Name: brl Test Host: McC Test Date: Thu Drives: src Source src Setup: src 781 Moc N 1 2 3 4 5 6 7	Interpolation		
Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	Garrett u Feb 10 10:23:48 2011 c(01-IDE) dst (08-IDE) other (3C-SATA) c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Test Host: McC Test Date: Thu Drives: src Source src Setup: src N 1 2 3 4 5 6 7	Garrett u Feb 10 10:23:48 2011 c(01-IDE) dst (08-IDE) other (3C-SATA) c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Test Date: Thu Drives: src Source src Setup: src N Moo N 1 2 3 4 5 6 7	u Feb 10 10:23:48 2011 c(01-IDE) dst (08-IDE) other (3C-SATA) c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 00000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 00000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Drives: src Source src Setup: src 781 Mod N 1 2 3 4 5 6 7	C(01-IDE) dst (08-IDE) other (3C-SATA) c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/0000/01 1023/254/63 0F extended S 00000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Source src Setup: src 781 Moo N 1 2 3 4 5 6 7	c hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 > c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (OBB-OUJHCO) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/0000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Setup: src 781 Moc N 1 2 3 4 5 6 7	c hash (MD5): < F458F673894753FA6A0EC8B8EC63848E > 165360 total sectors (40020664320 bytes) del (OBB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
781 Mood N 1 2 3 4 5 6	165360 total sectors (40020664320 bytes) del (0BB-00JHC0) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
Mod N 1 2 3 4 5 6	del (OBB-OOJHCO) serial # (WD-WMAMC74171) Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
N 1 2 3 4 5 6	Start LBA Length Start C/H/S End C/H/S boot Partition type P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
1 2 3 4 5 6 7	P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
2 3 4 5 6 7	X 020980890 057175335 1023/000/01 1023/254/63 0F extended S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
3 4 5 6 7	S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12 x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
4 5 6 7	<pre>x 000032130 002104515 1023/000/01 1023/254/63 05 extended S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended</pre>		
5 6 7	S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
6 7	x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
7			
	x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
9	S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 00000063 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		
13			
14	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
15	S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
16	S 000000000 000000000 0000/000/00 0000/000/00 00		
17	P 000000000 000000000 0000/000/00 0000/000/00 00		
18	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
1 (1 020980827 sectors 10742183424 bytes		
3 (000032067 sectors 16418304 bytes		
5 (002104452 sectors 1077479424 bytes		
	004192902 sectors 2146765824 bytes		
	008401932 sectors 4301789184 bytes		
	010490382 sectors 5371075584 bytes		
	004208967 sectors 2154991104 bytes		
15	027744192 sectors 14205026304 bytes		
_	==== Destination drive setup ======		
Highlights: 781	165360 sectors wiped with 8		
	==== Comparison of original to clone drive =====		
	Sectors compared: 78165360 Sectors match: 78165272		
	ctors differ: 88		
_	tes differ: 44735		
	Diffs range 56572401-56572488		
0 ε	source read errors, 0 destination read errors		
	==== Tool Settings: ======		
dst	t-interface ata28		

Test Case DA	-14-ATA28 Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UT	
	====== Excerpt from SMART log ======		
	Copy: da-06-ata28		
	SHA1 Span Hashes total span hash: a96a7193 e1d9c270 587b2be7 098638ac 048221d1		
	IO Summary: (Time: Thu Feb 10 12:01:57 2011) Bytes Read: 40,020,664,320		
	40,020,664,320 bytes written to /dev/sdb ====== End of Excerpt from SMART log ======	=	
Results:	====== End of Excerpt from SMART log ======		
Results:		= Actual Result	
Results:	====== End of Excerpt from SMART log ======		
Results:	====== End of Excerpt from SMART log ====== Assertion and Expected Result	Actual Result	
Results:	Assertion and Expected Result AM-03 Execution environment is XE.	Actual Result as expected	
Results:	Assertion and Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file.	Actual Result as expected as expected	
Results:	Assertion and 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.	Actual Result as expected as expected as expected	
Results:	Assertion and 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.	Actual Result as expected as expected as expected as expected as expected	
Results:	Assertion and Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	Actual Result as expected as expected as expected as expected as expected as expected	

5.2.65 DA-14-ATA28-WB

Test Case DA-	DA-14-ATA28-WB Smart Version 2010/11/03		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an image file.		
	AO-13 A clone is created using access interface DST-AI to write to the		
	clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is		
	accurately written to the same disk address on the clone that the sector		
	occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
	WoFat		
Test Host:	Mon Mar 14 15:10:55 2011		
Test Date:			
Drives:	src(01-IDE) dst (79-SATA-SSD) other (3C-SATA)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >		
	78165360 total sectors (40020664320 bytes) Model (0BB-00JHC0) serial # (WD-WMAMC74171)		
	MODEL (UBB-UUJHCU) SETIAL # (WD-WMAMC/41/1) N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	N Start LBA Length Start C/H/S End C/H/S BOOT Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X		
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 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 00000063 008401932 1023/001/01 1023/254/63 0B Fat32 10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004209030 1023/000/01 1023/254/63 82 Linux swap		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
Log	===== Destination drive setup =====		
Highlights:	125045424 sectors wiped with 79		
3 3 00 -			
	===== Comparison of original to clone drive =====		
	Sectors compared: 78165360		
	Sectors match: 78165360 Sectors differ: 0		
	Bytes differ: 0		
	Diffs range Source (70165360) has 46000064 fewer gosters than destination (125045434)		
	Source (78165360) has 46880064 fewer sectors than destination (125045424)		
	Zero fill: 0		
	Src Byte fill (01): 0		
	Dst Byte fill (79): 46880064		
	Other fill: 0 Other no fill: 0		
	OLHEL HO LIII. U		

Test Case DA-	ase DA-14-ATA28-WB Smart Version 2010/11/03		
	Zero fill range: Src fill range: Dst fill range: 78165360-125045423 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors		
	===== Tool Settings: ===== dst-interface ESATA		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux		
	====== Excerpt from SMART log ======		
	Copy: da-06-ata28-wb		
	SHA1 Span Hashes total span hash: a48bb566 5d6dc57c 22db68e2 f723da9a a8df82b9		
	IO Summary:(Time: Thu Mar 17 12:41:22 2011) Bytes Read: 40,020,664,320 40,020,664,320 bytes written to /dev/sdb ======= End of Excerpt from SMART log ========		
Results:			
	Assertion and 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	
	A0-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.66 DA-14-ATA48

Case DA-14 Create an unaligned clone from an image file. Summary: Am-03 The tool executes in execution environment XE. A0-12 If requested, a clone is created from an image file. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 If an unaligned clone is created each sector written to the clone is accurately written to the same disk address on the clone that the sector occurred with the distral source. A0-12 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: Drives: Test Date: NoFat Test Date: NoFat Test Med Feb 9 11:21:39 2011 Drives: Src hash (MD5): < D100763M56H4CRRAD1311C61F9FB382 > 300721968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24320/254/63 (max cyl/hd va	Test Case DA-	14-ATA48 Smart Version 2010/11/03		
ABSERTIONS: AM-0.12 If requested, a clone is created from an image file. AD-13 A clone is created using access interface DST-AI to write to the clone device. AD-14 If an unaligned clone is created, each sector written to the clone device. AD-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. AD-17 If requested, any excess sectors on a clone destination device are not modified. AD-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: br1 Test Boat: WeFat Test Boat: WeFat Test Most: WeG feb 9 11:21:39 2011 Drivea: Src14C) dat (46-SATA) other (67-SATA) Drivea: Src hash (MSHA1): < SPT620D28EDCCAFF8412EDDAAD5608554F872EFBF > STC hash (MDS): < 2100F36856D4EAR2D1311C61F9F8382 > 330721968 total sectors (200049647616 bytes) 24320/234/63 (max vg/1/d values) 24320/234/63 (max vg/1/d values) 24320/234/63 (max vg/1/d values) 24320/234/63 (max vg/1/d values) 1 DR disk: Model (MDC M020001B-000FA0) serial # (MD-MMAMRI031111) N Start Liak Langth Start C/M/S RMC C/M/S bost Partition type of the company of the comp	Case	DA-14 Create an unaligned clone from an image file.		
A0-12 If requested, a clone is created from an image file. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: br1 Test Not: Wed Feb 9 11:21:39 2011 Drives: Scr(4C) dst (46-SATA) other (67-SATA) Source Setup: src hash (SHA1): < SPF62DD2BBDCCAFF8412EDAAD56C8554F872EFBF > src hash (MD5): < D10F76385614CEBA2D1311G61F9F8382 > 390721968 total sectors (200049647616 bytes) 24320/254/63 (musk cyl/hd values) 24321/255/63 (number of cyl/hd) IDE disk: Model (MDC WD2000018-OOKPA0) serial # (WD-WMANRID31111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000003 000000000 0000000000 00000/000/				
A0-13 A clone is created using access interface DST-At to write to the clone device. A0-14 If an unaligned clone is created, each sector writen to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: br1 Test Nome: br1 Test Not: NoTat Test Not: NoTat Test Not: NoTat Test Not: Source src hash (SHAI): < SFF62002SEDCCAFF8412EDAAD56c8554F872EFBF > sectors (ABM) (SHAI): < SFF62002SEDCCAFF8412EDAAD56c8554F872EFBF > sectors (ABM) (SHAI): < SFF62002SEDCCAFF8412EDAAD56c8554F872EFBF > sectors (ABM) (MD5): < D100763856AGEABZD13116E1F9F8382 > 390721968 total sectors (AD0049647616 bytes) 24321/255/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) 1322/254/63 (max cyl/hd values) 1322/254/63 (max cyl/hd values) 1222/254/63 (max cyl/hd values) 1222/256/63 (max cyl/hd values) 1222/254/63 (m	Assertions:			
clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Drives:				
A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: bri Test Nome: bri Test More: wed Feb 9 11:21:39 2011 Drives: src(40) dat (46-SATA) cther (67-SATA) Source sr hash (SHA1): < RFF620D2BEDCAFF86412EDAAD56C854F872EFBF > sec (40) dat (46-SATA) cther (67-SATA) Source sr hash (MS5): < 100PF638550A40EAR201311C615P9F882 > 390721968 total sectors (20049647616 bytes) 24321/255/63 (number of cyl/hd) IDB disk: Medel (MCM ND2000JR-0KFA0) serial # (MD-MMAM91031111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000000 000000000 0000/0001/00 1000/000/				
accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: br1 Test Name: br1 Test Name: br2 Test Date: Ned Peb 9 11:21:39 2011 Drivea: src(4C) dst (46-SATA) other (67-SATA) Source src hash (MB1): < 8FP620D2BEDCCAFE8412EDAD56C8554F872EFBF > src hash (MB1): < 8FP620D2BEDCCAFE8412EDAD56C8554F872EFBF > src hash (MB1): < 2007*G3B56D4CEB2D21311G6IF9FR382 > 390721868 otto lsectors (20049647616 bytes) 24320/254/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) 24321/255/63 (max cyl/hd values) 19 000000000 000000000 000000000 0000/0000/00 openation of NTFS 2 P 000000000 000000000 0000/0000/00 0000/0000/00 00				
Occupied on the digital source.		· · · · · · · · · · · · · · · · · · ·		
## A0-17 If prequested, any excess sectors on a clone destination device are not modified. ## A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. ## Test Name: br! ## Test Name: NoFat ## Test Name: Ned Feb 9 11:21:39 2011 ## Drives: src(4C) dst (46-5ATA) other (67-5ATA) ## Surce		-		
not modified.		AO-17 If requested, any excess sectors on a clone destination device are		
Tester Name: brl		not modified.		
Tester Name: brl Test Host: WoFat Test Date: Wed Feb 9 11:21:39 2011 Drives: Str(4C) dst (46-SATA) other (67-SATA) Drives: Str(4C) dst (46-SATA) other (67-SATA) Source Set hash (SMA1): < 8FF620D28EDCCAFF88412EDAAD56C8554F872EFBF > Setup: Str hash (MDS): < 010F763B55D4CBAP21311C61F9yB382 > 390721968 total sectors (200049647616 bytes) 24321/255/63 (number of cyl/hd)				
Test Date: WeFat		accurately recorded in the log file.		
Test Date: WeFat	Tester Name:	hrl		
Test Date: Wed Feb 9 11:21:39 2011 Drives: src(4C) dst (46-SATA) other (67-SATA) Source src hash (SHA1): < 8FF620D2BEDCCAF88412EDAAD56C8554F872EFBF > src hash (SHA1): < 8FF620D2BEDCCAF88412EDAAD56C85554F872EFBF > src hash (SHA1): < 8FF620D2BEDCCAF88412EDAAD56C85554F872EFBF > src hash (SHA1): < 8FF620D2BEDCCAF88412EDAAD56C8554F872EFBF > src hash (MDS): < 8FF620D2BEDCCCAF88412EDAAD56C8554F872EFBF > src hash (MDS): < 8FF620D2BEDCCCAF88411111111111111111111111111111111111				
Drives: src(4C) dst (46-SATA) other (67-SATA)				
Source Setup: Src hash (SHA1): < 8FF62DD2BEDCCAF88412EDAAD56C8554F872EFBF > Src hash (MD5): < D10F763B56D4CEBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/255/63 (max cyl/hd values) 24321/255/63 (momber 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				
Setup: src hash (MDS): < D10F763B56D4CEBA2D1311C61F9FB382 > 390721968 total sectors (200049647616 bytes) 24320/254/63 (max cyl/hd values) 24321/255/63 (number of cyl/hd) IDE disk: Model (MDC WD2000B-00KFA0) serial # (WD-WMAMR1031111) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00				
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 0000000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 0000000000 0000/0000/00 0000/0000/00 00		, , ,		
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	_			
IDE disk: Model (WDC WD2000JB-OOKFA0) serial # (WD-WMAMR1031111) N Start LBA Length Start C/H/S End C/H/S boot Partition type		24320/254/63 (max cyl/hd values)		
N Start LBA Length Start (/H/S End C/H/S boot Partition type				
1 P 00000063 390700737 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000000000000000000		, , , , , , , , , , , , , , , , , , , ,		
2 P 000000000 000000000 0000/000/00 0000/000/00 00				
3 P 000000000 0000000000 0000/000/00 000 empty entry				
### 4 P 00000000 000000000 0000/000/00 000 empty entry ### 1 390700737 sectors 200038777344 bytes ###################################				
Log Highlights:				
Log				
Highlights: 488397168 sectors wiped with 46 ====== Comparison of original to clone drive ====== Sectors compared: 390721968 Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (46): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ====== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======= Copy: da-06-ata48		1 350700757 Beeccold 200030777511 Bjecs		
===== 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 (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (4G): 97675200 Other fill: 0 Zero fill range: Src fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======= Copy: da-06-ata48	Log	===== Destination drive setup =====		
Sectors compared: 390721968 Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (4G): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ===================================	Highlights:	488397168 sectors wiped with 46		
Sectors compared: 390721968 Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (4G): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ===================================		Companison of original to alone drive		
Sectors match: 390721968 Sectors differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill: (4C): 0 Dst Byte fill: (4C): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ====== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======= Copy: da-06-ata48				
Sectors differ: 0 Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (4G): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: Dst fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ===================================		=		
Bytes differ: 0 Diffs range Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (46): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Other fill range: Other fill range: Other fill range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ===================================				
Source (390721968) has 97675200 fewer sectors than destination (488397168) Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (46): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======== Copy: da-06-ata48				
Zero fill: 0 Src Byte fill (4C): 0 Dst Byte fill (46): 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 ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48		Diffs range		
Src Byte fill (4C): 0 Dst Byte fill (46): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range: Other fill range: 0 source read errors, 0 destination read errors ====== Tool Settings: ====== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======== Copy: da-06-ata48		Source (390721968) has 97675200 fewer sectors than destination (488397168)		
Dst Byte fill (46): 97675200 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Dst fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 Os: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
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 ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
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 ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
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 ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
Src fill range: Dst fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 Os: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
Dst fill range: 390721968-488397167 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 Os: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
0 source read errors, 0 destination read errors ====== Tool Settings: ====== dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48				
dst-interface SATA48 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-06-ata48		The last time and		
OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ====== Copy: da-06-ata48				
2010 i686 GNU/Linux ====== Excerpt from SMART log ====== Copy: da-06-ata48		ust-interface SATA48		
2010 i686 GNU/Linux ====== Excerpt from SMART log ====== Copy: da-06-ata48		OS: Linux ubuntu 2.6.32-21-generia #32-Hbuntu SMD Fri Apr 16 08:10:02 HTC		
====== Excerpt from SMART log ====== Copy: da-06-ata48				
Copy: da-06-ata48		2010 1000 Cho/ Binan		
		====== Excerpt from SMART log ======		
GUIN 1. Character and a charac		Copy: da-06-ata48		
SHAI Span Hasnes		SHA1 Span Hashes		

Test Case DA-	14-ATA48 Smart Version 2010/11/03		
	total span hash: 8ff620d2 bedccafe 8412edaa d	56c8554 f872efbf	
	IO Summary:(Time: Wed Feb 9 15:30:03 2011) Bytes Read: 200,049,647,616 200,049,647,616 bytes written to /dev/sdb ======= End of Excerpt from SMART log =======		
Results:			
	Assertion and 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		

5.2.67 DA-14-BZIP2

Test Case DA-	14-BZIP2 Smart Version 2010/11/03		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an image file.		
	AO-13 A clone is created using access interface DST-AI to write to the clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is		
	accurately written to the same disk address on the clone that the sector		
	occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	McGarrett		
Test Date:	Thu Feb 17 13:11:55 2011		
Drives:	src(41) dst (02-IDE) other (68-SATA)		
Source	src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >		
Setup:	src hash (MD5): < OA6A8EF78BDC14E2026710D8CCB5607C >		
_	78125000 total sectors (40000000000 bytes)		
	65534/015/63 (max cyl/hd values)		
	65535/016/63 (number of cyl/hd)		
	IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00		
	3 P 000000000 000000000 0000/000/00 0000/000/00 00		
	4 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 078107967 sectors 39991279104 bytes		
Log	===== Destination drive setup =====		
Highlights:	78165360 sectors wiped with 2		
	===== Comparison of original to clone drive =====		
	Sectors compared: 78125000		
	Sectors match: 78125000		
	Sectors differ: 0		
	Bytes differ: 0		
	Diffs range		
	Source (78125000) has 40360 fewer sectors than destination (78165360)		
	Zero fill: 0		
	Src Byte fill (41): 0		
	Dst Byte fill (02): 40360 Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 78125000-78165359		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors		
	===== Tool Settings: =====		
	dst-interface ATA28		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC		
	2010 i686 GNU/Linux		
	====== Excerpt from SMART log ======		
	Copy: da-10-bzip2		
	SHA1 Span Hashes		

Test Case DA-	14-BZIP2 Smart Version 2010/11/03		
	total span hash: 15caa1a3 07271160 d8372668 bf8a03fc 45a51cc9		
	IO Summary:(Time: Thu Feb 17 13:59:54 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sda ======= End of Excerpt from SMART log =======	=	
Results:			
	Assertion and Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.68 DA-14-CF

Test Case DA-14-CF Smart Version 2010/11/03			
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an		
	AO-13 A clone is created using access interface DST-AI to write to the		
	clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is		
	accurately written to the same disk address on the clone that the sector		
	occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	Max		
Test Date:	Tue Feb 15 11:43:50 2011		
Drives:	<pre>src(C1-CF) dst (C2-CF) other (3A-SATA)</pre>		
Source	src hash (SHA1): < 5B8235178DF99FA307430C088F8	1746606638A0B >	
Setup:	<pre>src hash (MD5): < 776DF8B4D2589E21DEBCF589EDC1</pre>	6D78 >	
	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		
	2 P 168689522 1936028240 0288/115/43 0367/114		
	3 P 1869881465 1936028192 0366/032/33 0357/03	2/43 Boot 79 other	
	4 P 2885681152 000055499 0372/097/50 0000/010	/00 Boot 0D other	
	1 1141509631 sectors 584452931072 bytes		
	2 1936028240 sectors 991246458880 bytes		
	3 1936028192 sectors 991246434304 bytes		
	4 000055499 sectors 28415488 bytes		
Log	===== Destination drive setup =====		
Highlights:	503808 sectors wiped with C1		
	===== 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	S	
	Maal Cattings		
	===== Tool Settings: ===== dst-interface USB		
	dec-incertage obe		
	OS: Linux ubuntu 2 6 32-21-generia #32-IIbuntu	SMP Fri Apr 16 08:10:02 iTTC	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux		
	ZUIU IUOU GMU/LIIIUX		
	====== Excerpt from SMART log ======		
	======		
	Copy: da-07-cf		
	Copy · ua = 0 / -GI		
	MD5 Span Hashes		
	total span hash: 776df8b4d2589e21debcf589edc16d78		
	IO Summary:(Time: Tue Feb 15 12:09:30 2011)		
	Bytes Read: 257,949,696		
	257,949,696 bytes written to /dev/sdb ====== End of Excerpt from SMART log =======		
	Blid of Everthe IIom Brinki 108 =======	_	
Results:			
VCDUTTD.	Assertion and Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	I AM OS BACCULION CHVILONNICH IS AB.	as expected	

Test Case DA-14-CF Smart Version 2010/11/03		
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.69 DA-14-ESATA

Test Case DA-	14-ESATA Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	AO-14 If an unaligned clone is created, each sector written to the clone is	
	accurately written to the same disk address on the clone that the sector	
	occupied on the digital source.	
	AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Wed Feb 9 09:28:55 2011	
Drives:	src(07-SATA) dst (04-SATA) other (68-SATA)	
Source	<pre>src hash (SHA1): < 655E9BDDB36A3F9C5C4CC8BF32B8C5B41AF9F52E ></pre>	
Setup:	src hash (MD5): < 2EAF712DAD80F66E30DEA00365B4579B >	
	156301488 total sectors (80026361856 bytes)	
	Model (WDC WD800JD-32HK) serial # (WD-WMAJ91510044) N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 156280257 0000/001/01 1023/254/63 Boot 07 NTFS	
	2 P 000000000 000000000 0000/000/00 0000/000/00 00	
	3 P 000000000 000000000 0000/000/00 0000/000/00 00	
	4 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 156280257 sectors 80015491584 bytes	
_		
Log	===== Destination drive setup ======	
Highlights:	156301488 sectors wiped with 4	
	===== 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	
	===== Tool Settings: =====	
	dst-interface SATA28	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC	
	2010 i686 GNU/Linux	
	====== Excerpt from SMART log ======	
	Copy: da-06-esata	
	SHA1 Span Hashes	
	total span hash: 655e9bdd b36a3f9c 5c4cc8bf 32b8c5b4 laf9f52e	
	IO Summary:(Time: Wed Feb 9 11:31:30 2011)	
	Bytes Read: 80,026,361,856	
	80,026,361,856 bytes written to /dev/sdb	
	====== End of Excerpt from SMART log ======	
D		
Results:	Aggertion and Exposted Possilt	
	Assertion and 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 as expected	
	ab expected	

Test Case DA-	14-ESATA Smart Version 2010/11/03	
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.70 DA-14-EWCOMPRESS

Test Case DA-	14-EWCOMPRESS Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file.	
	AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	WoFat	
Test Date:	Thu Feb 17 13:43:05 2011	
Drives:	src(43) dst (04-IDE) other (67-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes 13 004208967 sectors 2154991104 bytes	
	15 004200967 Sectors 2134991104 Bytes 15 027712062 sectors 14188575744 bytes	
	13 0111001 Beecold 111003/3/11 Bjees	
Log	===== Destination drive setup =====	
Highlights:	78165360 sectors wiped with 4	
	-	
	===== Comparison of original to clone drive =====	
	Sectors compared: 78125000	
	Sectors match: 78125000	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range	
	Source (78125000) has 40360 fewer sectors than destination (78165360)	
	Zero fill: 0	
	Src Byte fill (43): 0	
	Dst Byte fill (04): 40360 Other fill: 0	
	Other no fill: 0	
	Coner no lili. O	

Test Case DA-	t Case DA-14-EWCOMPRESS Smart Version 2010/11/03		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 78125000-78165359		
	Other fill range:		
	Other not filled range:		
	0 source read errors, 0 destination read errors	S	
	===== Tool Settings: =====		
	dst-interface ATA28		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 8 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC	
	====== Excerpt from SMART log ======		
	Copy: da-10-ewcompress		
	SHA1 Span Hashes total span hash: 888e2e7f 7ad237dc 7a732281 do	d93f325 065e5871	
	IO Summary: (Time: Thu Feb 17 14:37:20 2011)		
	Bytes Read: 40,000,000,000		
	40,000,000,000 bytes written to /dev/sda		
	====== End of Excerpt from SMART log =======	=	
	•		
Results:			
	Assertion and 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		
111411010	Inposted Isbatch delitered		

5.2.71 DA-14-EXT2

Test Case DA-	14-EXT2 Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file.	
	AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	A0-14 If an unaligned clone is created, each sector written to the clone is	
	accurately written to the same disk address on the clone that the sector occupied on the digital source.	
	AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Tue Mar 1 09:02:01 2011	
Drives:	src(43) dst (4E-SATA) other (3A-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 > 78125000 total sectors (4000000000 bytes)	
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHCO) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux 12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes 11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes	
	43ext2-md5sum 5371075583 C7A84DE9ACBCB05463604CE8823D0874	
	43ext2-sha1sum 5371075583 283BCC32DE892C12C37698AF7E38703619E57F57	
Log	===== Destination drive setup =====	
Highlights:	156301488 sectors wiped with 4E	
	===== Comparison of original to clone drive =====	
	Sectors compared: 10490382	
	Sectors match: 10490382	
	Sectors differ: 0	
	Bytes differ: 0 Diffs range:	
	run start Tue Mar 1 09:43:26 2011	
	run finish Tue Mar 1 09:47:00 2011	
	elapsed time 0:3:34	
	Normal exit	
	-	

Test Case DA-14-EXT2 Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log ======	
	Copy: da-07-ext2	
	SHA1 Span Hashes total span hash: 283bcc32 de892c12 c37698af 7e387036 19e57f57	
	IO Summary:(Time: Tue Mar 1 09:20:27 2011) Bytes Read: 5,371,075,584 5,371,075,584 bytes written to /dev/sdb9 ======= End of Excerpt from SMART log =======	=
Results:		
	Assertion and 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	

5.2.72 DA-14-F12

Test Case DA-	14-F12 Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file.	
	AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	AO-14 If an unaligned clone is created, each sector written to the clone is	
	accurately written to the same disk address on the clone that the sector	
	occupied on the digital source.	
	AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Thu Mar 3 12:01:51 2011	
Drives:	src(43) dst (4E-SATA) other (3A-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	78125000 total sectors (4000000000 bytes)	
	Model (OBB-75JHCO) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
1	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
	43F12-md5sum 16418303 CBA0C9984F51778E89DEF0C6BED06864	
	43F12-sha1sum 16418303 6853B517F50BF3CCADED3DB5FEAE08C18C62FCA0	
T	Dashination duine cotum	
Log	===== Destination drive setup =====	
Highlights:	156301488 sectors wiped with 4E	
1		
1	===== Comparison of original to clone drive =====	
1	Sectors compared: 32067	
	Sectors match: 32067	
1	Sectors differ: 0	
1	Bytes differ: 0	
1	Diffs range:	
	run start Thu Mar 3 14:37:36 2011	
	run finish Thu Mar 3 14:37:37 2011	
1	elapsed time 0:0:1	
1	Normal exit	

Test Case DA	-14-F12 Smart Version 2010/11/03	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log ======	
	Copy: da-07-f12	
	SHA1 Span Hashes total span hash: 6853b517 f50bf3cc aded3db5 feae08c1 8c62fca0	
	IO Summary:(Time: Thu Mar 3 14:20:44 2011) Bytes Read: 16,418,304 16,418,304 bytes written to /dev/sdb5 ======= End of Excerpt from SMART log =======	=
Results:		Actual Result
	Assertion and Expected Result	
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected

5.2.73 DA-14-F16

Test Case DA-	14-F16 Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file.	
	AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source.	
	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.	
	accurately recorded in the rog life.	
Tester Name:	brl	
Test Host:	McGarrett	
Test Date:	Thu Mar 3 16:02:37 2011	
Drives:	src(01-IDE) dst (4E-SATA) other (3A-SATA)	
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >	
Setup:	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >	
Scoup.	78165360 total sectors (40020664320 bytes)	
	Model (OBB-00JHCO) serial # (WD-WMAMC74171)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 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 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes 5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027744192 sectors 14205026304 bytes	
	01F16-md5 1077479423 8B24F3D793188AF2473F69B267AFDA42	
	01F16-sha1 1077479423 074BA831B10132F4BF9F86AFAB37CB7FEF482C7D	
	12.7. 00.1.2. 12. 12. 12. 12. 12. 12. 12. 12. 12	
Log	===== Destination drive setup =====	
Highlights:	156301488 sectors wiped with 4E	
	-	
	====== Comparison of original to clone drive ======	
	Sectors compared: 2104452	
	Sectors match: 2104452	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	run start Thu Mar 3 16:33:42 2011	
	run finish Thu Mar 3 16:34:25 2011	
	elapsed time 0:0:43	
	Normal exit	

Test Case DA	-14-F16 Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC	
	====== Excerpt from SMART log ======		
	Copy: da-07-fat16		
	SHA1 Span Hashes total span hash: 074ba831 b10132f4 bf9f86af ab37cb7f ef482c7d		
	IO Summary: (Time: Thu Mar 3 16:08:50 2011) Bytes Read: 1,077,479,424 1,077,479,424 bytes written to /dev/sdb6 ====== End of Excerpt from SMART log ======	=	
Results:	Aggression and Remorted Dogult	Actual Result	
	Assertion and Expected Result AM-03 Execution environment is XE.		
		as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-14 An unaligned clone is created.	as expected	
	AO-17 Excess sectors are unchanged.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.74 DA-14-F32

Test Case DA-	14-F32 Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image file.	
Summary:		
Assertions:	AM-03 The tool executes in execution environment XE.	
	AO-12 If requested, a clone is created from an image file.	
	AO-13 A clone is created using access interface DST-AI to write to the	
	clone device.	
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are	
	not modified.	
	AO-23 If the tool logs any log significant information, the information is	
	accurately recorded in the log file.	
Togton Namo:	brl	
Tester Name:		
Test Host:	McGarrett	
Test Date:	Fri Mar 4 09:03:41 2011	
Drives:	src(43) dst (4E-SATA) other (3A-SATA)	
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >	
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >	
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588)	
	N Start LBA Length Start C/H/S End C/H/S boot Partition type	
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X	
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended	
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12	
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended	
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16	
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended	
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other	
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended	
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32	
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended	
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux	
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended	
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap	
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended	
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS	
	16 S 000000000 000000000 0000/000/00 0000/000/00 00	
	17 P 000000000 000000000 0000/000/00 0000/000/00 00	
	18 P 000000000 000000000 0000/000/00 0000/000/00 00	
	1 020980827 sectors 10742183424 bytes	
	3 000032067 sectors 16418304 bytes	
	5 002104452 sectors 1077479424 bytes	
	7 004192902 sectors 2146765824 bytes	
	9 008401932 sectors 4301789184 bytes	
	11 010490382 sectors 5371075584 bytes	
	13 004208967 sectors 2154991104 bytes	
	15 027712062 sectors 14188575744 bytes	
	43F32-md5sum 4301789183 2C4D8D450E5AD28329F616D87114CCFE	
	43F32-shalsum 4301789183 72462489BCF79A98B59B6A8CD938FEB46FA2A781	
T	Problembles Autor school	
Log	===== Destination drive setup =====	
Highlights:	156301488 sectors wiped with 4E	
	Gamerican of entrinel to along details	
	===== Comparison of original to clone drive =====	
	Sectors compared: 8401932	
	Sectors match: 8401932	
	Sectors differ: 0	
	Bytes differ: 0	
	Diffs range:	
	run start Fri Mar 4 10:20:23 2011	
	run finish Fri Mar 4 10:23:16 2011	
	elapsed time 0:2:53	
	Normal exit	

Test Case DA-	Test Case DA-14-F32 Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux		
	====== Excerpt from SMART log =======		
	Copy: da-07-f32		
	SHA1 Span Hashes total span hash: 72462489 bcf79a98 b59b6a8c d938feb4 6fa2a781 IO Summary:(Time: Fri Mar 4 09:21:06 2011) Bytes Read: 4,301,789,184 4,301,789,184 bytes written to /dev/sdb8 ======= End of Excerpt from SMART log =======		
Results:			
	Assertion and 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		

5.2.75 **DA-14-F32X**

Test Case DA-14-F32X Smart Version 2010/11/03			
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an image file.		
	AO-13 A clone is created using access interface DST-AI to write to the		
	clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is		
	accurately written to the same disk address on the clone that the sector		
	occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	McGarrett		
Test Date:	Fri Mar 4 16:05:07 2011		
Drives:	src(01-IDE) dst (2A-SATA) other (3A-SATA)		
Source	src hash (SHA1): < A48BB5665D6DC57C22DB68E2F723DA9AA8DF82B9 >		
	src hash (MD5): < F458F673894753FA6A0EC8B8EC63848E >		
Setup:	· · · ·		
[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 0C Fat32X		
	2 X 020980890 057175335 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended		
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027744255 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027744192 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes		
	9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes		
	15 027744192 sectors 14205026304 bytes		
	01F32X-md5 10742183423 B5BFD9CE3990C577EF89C5AFB925F947		
	01F32X-sha1 10742183423 30BA6CF583A176C5DB533E3A2F57BFD5A4A870C1		
Log	===== Destination drive setup =====		
Highlights:	156250000 sectors wiped with 2A		
	_		
]	===== Comparison of original to clone drive =====		
]	Sectors compared: 20980827		
	Sectors match: 20980827		
	Sectors differ: 0		
]	Bytes differ: 0		
[Diffs range:		
]	Source (20980827) has 1558305 fewer sectors than destination (22539132) Zero fill: 0		
]			
	Src Byte fill (01): 0		
1	Dst Byte fill (2A): 1558305		

Test Case DA-14-F32X Smart Version 2010/11/03			
	Other fill: 0		
	Other no fill: 0		
	Zero fill range:		
	Src fill range:		
	Dst fill range: 20980827-22539131		
	Other fill range:		
	Other not filled range:		
	run start Fri Mar 4 16:27:53 2011		
	run finish Fri Mar 4 16:35:05 2011		
	elapsed time 0:7:12		
	Normal exit		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux		
	====== Excerpt from SMART log ======		
	Copy: da-07-f32x		
	SHA1 Span Hashes total span hash: 30ba6cf5 83a176c5 db533e3a 2f57bfd5 a4a870c1		
	IO Summary:(Time: Fri Mar 4 16:14:21 2011)		
	Bytes Read: 10,742,183,424		
	10,742,183,424 bytes written to /dev/sdb1		
	====== End of Excerpt from SMART log =======		
Results:			
	Assertion and 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	
Analugia:	Errogted regults ashioved		
Analysis:	Expected results achieved		

5.2.76 DA-14-FW

Test Case DA-	14-FW Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the
	clone device. AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	Max
Test Date: Drives:	Thu Feb 10 10:12:50 2011
	src(63-FU2) dst (24) other (3A-SATA)
Source Setup:	<pre>src hash (SHA1): < F7069EDCBEAC863C88DECED82159F22DA96BE99B > src hash (MD5): < EE217BC4FA4F3D1B4021D29B065AA9EC ></pre>
Secup.	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 0B Fat32
	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
	1 004192902 sectors 2146765824 bytes
	3 113097537 sectors 57905938944 bytes
Log	===== Destination drive setup =====
Highlights:	143374741 sectors wiped with 24
	_
	===== Comparison of original to clone drive =====
	Sectors compared: 117304992
	Sectors match: 117304992
	Sectors differ: 0
	Bytes differ: 0
	Diffs range Source (117304992) has 26069749 fewer sectors than destination (143374741)
	Zero fill: 0
	Src Byte fill (63): 0
	Dst Byte fill (24): 26069749
	Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range:
	Dst fill range: 117304992-143374740
	Other fill range:
	Other not filled range:
	0 source read errors, 0 destination read errors
	===== Tool Settings: =====
	dst-interface SCSI
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	Grand do 00 for
	Copy: da-06-fw

Test Case Da	A-14-FW Smart Version 2010/11/03		
	SHA1 Span Hashes		
	total span hash: f7069edc beac863c 88deced8 2159f22d a96be99b IO Summary:(Time: Thu Feb 10 12:17:20 2011) Bytes Read: 60,060,155,904		
	60,060,155,904 bytes written to /dev/sdf ====== End of Excerpt from SMART log =======		
Results:			
	Assertion and 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		

5.2.77 DA-14-GZIP

Test Case DA-	14-GZIP Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Fri Feb 18 09:37:45 2011
Drives:	src(41) dst (02-IDE) other (68-SATA)
Source	src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 >
Setup:	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
	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
	4 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 078107967 sectors 39991279104 bytes
T	Destination dates as to
Log Highlights:	===== Destination drive setup ====== 78165360 sectors wiped with 2
mightighes.	70103500 Bedelis wiped with 2
	===== Comparison of original to clone drive =====
	Sectors compared: 78125000
	Sectors match: 78125000
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	Source (78125000) has 40360 fewer sectors than destination (78165360)
	Zero fill: 0
	Src Byte fill (41): 0
	Dst Byte fill (02): 40360
	Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range: 79125000 79165250
	Dst fill range: 78125000-78165359 Other fill range:
	Other not filled range:
	0 source read errors, 0 destination read errors
	o bouled read crioib, o debernation read errors
	===== Tool Settings: =====
	dst-interface ATA28
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	====== Excerpt from SMART log =======
	Grand de 10 mais
	Copy: da-10-gzip
	SHA1 Span Hashes
	DIEST OPEN MADIFO

Test Case DA-	14-GZIP Smart Version 2010/11/03	
	total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9	
	IO Summary:(Time: Fri Feb 18 10:12:44 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to /dev/sdb ======= End of Excerpt from SMART log =======	=
Results:		
	Assertion and 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	

5.2.78 DA-14-HOT

Case DA-14 Create an unaligned clone from an image file. Summary: 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: Tester Name: Test Date: The Feb 22 14:11:84 2011 Drivas: Sectors: Sect	Test Case DA-	14-HOT Smart Version 2010/11/03
Absertions: AM-0.12 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 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: br1 Test Host: Max Test Date: The Feb 22 14:11:54 2011 Drives: Surce Setup: Src(EO) dst (25-IDE) other (74-SATA-SSD) Source Setup: src hash (NDS): < AMOSPISSAZZBBIORCS44BADDTRAGISSBECBS2 > Src hash (NDS): < AMOSPISSAZZBBIORCS44BADDTRAGISSBECBS2 > 17938985 total sectors (9184760320 bytes) Model (ANTASIOKZ-179027) serial # (16902814236) Log ====== Destination drive setup ===== Setors compared: 17938985 Sectors differ: 0 Byte differ: 0 Differ range Source (17938985) has 40694359 fewer sectors than destination (58633344) Zero fill: 0 Src Byte fill (ED): 0 Dat Byte fill (ED): 0 Dat Byte fill (Tange: Driffill range: Src fill range: Driffill range: Other fill ra	Case	DA-14 Create an unaligned clone from an image file.
AO-12 If requested, a clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the clone device. AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: br1		
A0-13 A clone is created using access interface DST-At to write to the clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Nome: bri Test Nome: sro(Rs0) dst (25-IDE) other (74-SATA-SSD) Source sro hash (SRA1): < 486941F13378822EB10FC0444B4D7FA6158BECB82 > sectors sro hash (MD5): < 497CE936B/ACCD5223B90ACC09224F938 > 17938985 total sectors (9184760320 bytes) Model (ATLASIOK2-TP0923) serial # (169028142436) Log self sectors sectors wiped with 25 sectors amatch: 17938985 Sectors differ: 0 Diffs range Source (17938985) has 40694359 fewer sectors than destination (5863344) Zero fill: 0 Det Byte fill (KD): 0 Det Byte fill (KD): 0 Det Byte fill (SD): 0 Cero fill range: Dst fill range: Dst fill range: Ocher not filled range: Other not filled range: Other fill range: Other fill range: Other fill range: Oscurce read errors, 0 destination read errors ### dst-interface ATDA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 1686 GNU/Linux ### sectors shares Copy: da-12 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 bl0fc844 bdd7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda	Assertions:	
clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. TestExtex Name: Test Date: Test Date: The Feb 22 14:11:54 2011 Drives: Source Scrup: Scr		
A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: br1 Test Name: br1 Test Name: br1 Test Name: br2 Test Name: br1 T		-
accurately written to the same disk address on the clone that the sector occupied on the dightal source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Date: Test Date: Test Date: Test Date: Tue Peb 22 14:11:54 2011 Drives: Succe Scot Dath (MS): < 4A6941F1337A6A22B10F644B4D7FA6158BECB82 > sectors mash (MS): < A97CB7637A295523B90AC09224F938 > 17936985 total sectors (9184760320 bytes) Model (ATASSIDKA-TPO92J) serial # (169028142436) LOG ====== Destination drive setup ===== Sectors compared: 17938985 Sectors match: 17938985 Sectors match: 17938985 Sectors match: 17938985 Sectors match: 17938985 Sectors differ: 0 Dytes differ: 0 Dytes differ: 0 Dytes differ: 0 Dytes differ: 0 Dote Byte fill (E0): 0 Obst Byte fill (E0): 0 Other no fill: 0 Sro Byte fill (25): 40694359 Other fill: 0 Other in fill: 0 Zero fill range: Sor fill range: Dst fill range: Oster mot filled range: 0 source read errors, 0 destination read errors ====== Tool Settings: ===== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 (SMU/Linux ====================================		
occupied on the digital source. AD-17 ff requested, any excess sectors on a clone destination device are not modified. AD-23 ff the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: Dr1 Test Most: Max Test Date: Tue Feb 22 14:11:54 2011 Drives: sarc(R0) dat (25-IDE) other (74-SATA-SSD) Source src hash (SHA1): < 4869417133788A22B10FC044BAD7FA6158BECB82 > ser hash (MP5): < A97CB758FA20F23839AC029284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log serial Destination drive setup serial # (169028142436) Log serial Destination drive setup serial # (17918985) Sectors match: 17938985 Sectors and the 17938985 Sectors match: 17938985 Sectors fill: 0 Src Ryte fill (ED): 0 Dytes differ: 0 Diffs range Source (17938985) has 40694359 fewer sectors than destination (58633344) Zero fill: 0 Other not fill: 0 Src Ryte fill (ED): 0 Dest Byte fill (ED): 0 Other not fill: 0 Zero fill range: Dst fill range: Dst fill range: Other not filled range: O source read errors, 0 destination read errors serial range Sectors Source read errors 0 destination read errors serial range Sectors Source read errors 0 destination read errors serial Shall Span Hashes total span hash: 4a6941fl 337a8a22 bl0fc844 bd47fa61 58becb82 10 Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda serial Date fill of Excerpt from SMART log serial fill of Sectors of the serial process of the s		
AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Date: Test Date: Test Date: The Feb 22 14:11:54 2011 Drives: Source Set Land (ES-IDE) other (74-SATA-SSD) Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: Setup: AP7687368730495233890AC09284F938 > 17938985 catal sectors (9184760320 bytes) Model (ATLASIOK2-Tr092J) serial # (169028142436) Log Highlights: Setup: Setup: Set		
not modified. AD-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: br! Test Bote: Test Bote: Tue Feb 22 14:11:54 201 Drives: Tro(E0) dst (25-IDE) other (74-SATA-SSD) Source Scr Dash (SHA1): < 4A6941r1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97C873657AC9D5233B90AC0928B4F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log ====== Destination drive setup ====== Highlights: S6633344 sectors wiped with 25 ===== Comparison of original to clone drive ===== Sectors compared: 17938985 Sectors match: 1793895 Sectors match: 1793895 Sectors differ: 0 Diffs range Source (17938985) has 40694359 fewer sectors than destination (58633344) Zero fill: 0 Src Byte fill (20): 0 Dat Byte fill (20): 0 Dat Byte fill (20): 0 Other no fill: 0 Zero fill range: Src fill range: 17938985-58633343 Other fill range: 17938985-58633343 Other fill range: 17938985-58633343 Other fill range: 17938985-58633343 Other fill range: 0 source read errors, 0 destination read errors ====== Tool Settings: ===== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 1686 GMU/Linux ======= Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary: (Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		
Tester Name: brl Test Host: Max Test Date: Tue Feb 22 14:11:54 2011 Drives: src(E0) dst (25-IDE) other (74-SATA-SSD) Source src hash (SMA): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97CB736B7AC9D5233B90AC09284F938 > 1793B885 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (16902B142436) Log		
Test Name: brl Test Host: Max Test Date: Tue Feb 22 14:11:54 2011 Drives: Src(BO) dst (25-IDE) other (74-SATA-SSD) Source Sct hash (SHA1): < 4A66941F1337A8A222b10FC844B4D7FA6158BECB82 > Src hash (MD5): < A97C8F168TA/GD5223B00CC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLASIOK2-TYO92J) serial # (169028142436) Log Highlights: 56633344 sectors wiped with 25 ===== Comparison of original to clone drive ===== Sectors compared: 17938985 Sectors match: 17938985 Sectors differ: 0 Bytes differ: 0 Bytes differ: 0 Bytes differ: 0 Bytes fill (ED): 0 Src Byte fill (ED): 0 Src Byte fill (ED): 0 Dat Byte fill (ED): 0 Cero fill: 0 Src Byte fill (ED): 0 Src Byte fill (ED): 0 Dat Byte fill range: 17938985-8633343 Other fill range: 17938985-863343 Other fill range: Other not filled range: 0 Source read errors, 0 destination read errors -===== Tool Settings: ===== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 1686 GNU/Linux ======= Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 bl0fc844 bd47fa61 58becb82 IO Summary: (Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		AO-23 If the tool logs any log significant information, the information is
Test Date: Max Test Date: Tue Feb 22 14:11:54 2011 Drives: src (E0) dst (25-IDE) other (74-SATA-SSD) Source Src hash (SRA1): < 4A694IF1337A8A2ZB10FC844B4D7FA6158BECB82 > src hash (MD5): < 4A769IR97AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATTAS1OK2-TT092J) serial # (169028142436) Log Highlights: Log Highlights: 58633344 sectors wiped with 25 ===== Comparison of original to clone drive ===== Sectors compared: 17938985 Sectors match: 17938985 Sectors differ: 0 Differ range Source (17938985) has 40694359 fewer sectors than destination (59633344) Zero fill: 0 Src Byte fill (25): 40694359 Other fill: 0 Src Byte fill: (25): 40694359 Other fill: 0 Zero fill range: Src fill range: Src fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GMU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHAl Span Hashes total span hash: 4a6941f1 337a8a22 bl0fc844 b4d7fa61 58becb82 LO Summary: (Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ========		accurately recorded in the log file.
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Other not filled range: 0 source read errors, 0 destination read errors ====== Tool Settings: ====== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======== Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ========= End of Excerpt from SMART log ========		
<pre>0 source read errors, 0 destination read errors ====== Tool Settings: ====== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ======= Excerpt from SMART log ======== Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======== End of Excerpt from SMART log ========</pre>		3
===== Tool Settings: ===== dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		
<pre>dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log ========</pre>		v source read errors, v describation read errors
<pre>dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log ========</pre>		
<pre>dst-interface ATA28 OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log ========</pre>		===== Tool Settings: =====
OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log ========		
2010 i686 GNU/Linux ====== Excerpt from SMART log ====== Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		
====== Excerpt from SMART log ======= Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		2010 i686 GNU/Linux
Copy: da-13 SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		
SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log ========		====== Excerpt from SMART log ======
total span hash: 4a6941f1 337a8a22 bl0fc844 b4d7fa61 58becb82 IO Summary:(Time: Tue Feb 22 15:12:34 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ======= End of Excerpt from SMART log =======		Copy: da-13
Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ====== End of Excerpt from SMART log =======		-
Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sda ====== End of Excerpt from SMART log =======		IO Summary:(Time: Tue Feb 22 15:12:34 2011)
9,184,760,320 bytes written to /dev/sda ====== End of Excerpt from SMART log =======		
====== End of Excerpt from SMART log ======		
Results:		
Results:		
	Results:	

	Assertion and 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
malysis:	Expected results achieved	

5.2.79 DA-14-NTFS

Test Case DA-	Test Case DA-14-NTFS Smart Version 2010/11/03		
Case	DA-14 Create an unaligned clone from an image file.		
Summary:			
Assertions:	AM-03 The tool executes in execution environment XE.		
	AO-12 If requested, a clone is created from an image file.		
	AO-13 A clone is created using access interface DST-AI to write to the		
	clone device.		
	AO-14 If an unaligned clone is created, each sector written to the clone is		
	accurately written to the same disk address on the clone that the sector occupied on the digital source.		
	AO-17 If requested, any excess sectors on a clone destination device are		
	not modified.		
	AO-23 If the tool logs any log significant information, the information is		
	accurately recorded in the log file.		
Tester Name:	brl		
Test Host:	McGarrett		
Test Date:	Fri Mar 4 09:11:33 2011		
Drives:	src(43) dst (4E-SATA) other (3A-SATA)		
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >		
Setup:	src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 >		
	78125000 total sectors (40000000000 bytes) Model (0BB-75JHCO) serial # (WD-WMAMC46588)		
	N Start LBA Length Start C/H/S End C/H/S boot Partition type		
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X		
	2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended		
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12		
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended		
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16		
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended		
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other		
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended		
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32		
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended 11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux		
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended		
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap		
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended		
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS		
	16 S 000000000 000000000 0000/000/00 0000/000/00 00		
	17 P 000000000 000000000 0000/000/00 0000/000/00 00		
	18 P 000000000 000000000 0000/000/00 0000/000/00 00		
	1 020980827 sectors 10742183424 bytes		
	3 000032067 sectors 16418304 bytes		
	5 002104452 sectors 1077479424 bytes		
	7 004192902 sectors 2146765824 bytes 9 008401932 sectors 4301789184 bytes		
	11 010490382 sectors 5371075584 bytes		
	13 004208967 sectors 2154991104 bytes 15 027712062 sectors 14188575744 bytes 43ntfs-md5sum 14188575744 5D42FA317C802ACFEF2D313092D7411E		
	43ntfs-shalsum 14188575744 73eb2d27564b060db796efb78694a10e6b43d23f		
Log	===== Destination drive setup =====		
Highlights:	156301488 sectors wiped with 4E		
	Companies of suisinal to slave delice		
	===== Comparison of original to clone drive =====		
	Sectors compared: 27712062		
	Sectors match: 27712062 Sectors differ: 0		
	Bytes differ: 0		
	Diffs range:		
	run start Fri Mar 4 10:24:36 2011		
	run finish Fri Mar 4 10:34:04 2011		
	elapsed time 0:9:28		
	Normal exit		
	·		

Test Case DA-	Test Case DA-14-NTFS Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux		
	====== Excerpt from SMART log ======		
	Copy: da-07-ntfs		
	SHA1 Span Hashes total span hash: 73eb2d27 564b060d b796efb7 8694a10e 6b43d23f IO Summary:(Time: Fri Mar 4 09:37:15 2011) Bytes Read: 14,188,575,744 14,188,575,744 bytes written to /dev/sdb11 ======= End of Excerpt from SMART log =======		
Results:			
	Assertion and 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		

5.2.80 DA-14-OSX

Test Case DA-	14-OSX Smart Version 2010/11/03
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:	brl
Test Host:	WoFat
Test Date:	Mon Feb 28 15:10:10 2011
Drives:	src(4B-SATA) dst (58-SATA) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C > 156301488 total sectors (80026361856 bytes) Model (ST380815AS) serial # (6Q25C9V5) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other 2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other 6 X 004194343 004194351 1023/254/63 1023/254/63 AF other 8 S 000000047 004194304 1023/254/63 1023/254/63 AF other 8 S 000000000 00000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	312581808 sectors wiped with 58 ===== Comparison of original to clone drive ====== Sectors compared: 10485536 Sectors match: 10485536 Sectors differ: 0 Bytes differ: 0 Diffs range: Source (10485536) has 224 fewer sectors than destination (10485760) Zero fill: 7 Src Byte fill (4B): 0 Dst Byte fill (58): 216 Other fill: 0 Other no fill: 1 Zero fill range: 10485752-10485757, 10485759 Src fill range: Dst fill range: 10485536-10485751 Other fill range: Other not filled range: 10485758 run start Tue Mar 1 08:27:24 2011 run finish Tue Mar 1 08:30:21 2011 elapsed time 0:2:57 Normal exit

Test Case Da	A-14-OSX Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UT	rc
	====== Excerpt from SMART log ======		
	Copy: da-07-osx		
	SHA1 Span Hashes total span hash: 3de70998 ad136e66 cd09b9b4 f	2f5164e 77b3b705	
	IO Summary: (Time: Mon Feb 28 16:04:33 2011) Bytes Read: 5,368,594,432 5,368,594,432 bytes written to /dev/sdb2 ======= End of Excerpt from SMART log =======	=	
	Excess destination partition sectors hash: SHA1 5368594432 - 5368709119 = DAE359ECCBFC5A2	4528469B7E2075B76D6E48891	_
Results:			
	Assertion and Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AM-03 Execution environment is XE. AO-12 A clone is created from an image file.	as expected as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-12 A clone is created from an image file. AO-13 Clone created using interface AI.	as expected as expected	
	AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created.	as expected as expected as expected	
Analysis:	AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.	as expected as expected as expected as expected	

5.2.81 DA-14-OSXC

Test Case DA-	14-OSXC Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	AM 02 mls bad acceptant to a second of the s
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Mar 4 10:38:30 2011
Drives:	src(4B-SATA) dst (58-SATA) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes 4BOSXC-shal 2147483648 2D6303D74F9EDE617639643DCCF41EC2091D5F37
	THOUSE SHAL ZITTESSTO ZD0303D/TE/EDE01703/043DCCFTIECZ0/ID3F3/
Log	===== Destination drive setup ======
Highlights:	312581808 sectors wiped with 58
	===== Comparison of original to clone drive =====
	Sectors compared: 4194304 Sectors match: 4194304
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Fri Mar 4 10:58:14 2011
	run finish Fri Mar 4 10:59:24 2011
	elapsed time 0:1:10
	Normal exit
	00. Time where 0.6.20.01 marries 120 minutes 000 7 1 2 16 00:10:00
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	ZOTO TOOO GMO/DIMUX
	====== Excerpt from SMART log ======
	Copy: da-07-osxc
	SHA1 Span Hashes total span hash: 2d6303d7 4f9ede61 7639643d ccf41ec2 091d5f37
	IO Summary:(Time: Fri Mar 4 10:46:54 2011) Bytes Read: 2,147,483,648 2,147,483,648 bytes written to /dev/sdb5
	2,11.,100,010 Dicco willed to / Gev/ Dabb

Test Case DA	st Case DA-14-OSXC Smart Version 2010/11/03 ====== End of Excerpt from SMART log =======	
Results:	Assertion and 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	

5.2.82 DA-14-OSXCJ

Test Case DA-	14-OSXCJ Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	AM 02 Mbs tool assesses in assesstion anniusment VE
Assertions:	AM-03 The tool executes in execution environment XE. AO-12 If requested, a clone is created from an image file.
	AO-12 If requested, a crone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Mar 4 14:55:21 2011
Drives:	src(4B-SATA) dst (58-SATA) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes 7 004194304 sectors 2147483648 bytes
	4BOSXCJ-sha1 2147483648 29EA089958EF2A695081712FFBA68BA5164C980B
	IDODACO SHAT ZIT/103010 ZYBAOOYYSOBIZAOYSOOT/IZITBAOODASIO1CYOOD
Log	===== Destination drive setup =====
Highlights:	312581808 sectors wiped with 58
	===== Comparison of original to clone drive =====
	Sectors compared: 4194304 Sectors match: 4194304
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Fri Mar 4 15:11:39 2011
	run finish Fri Mar 4 15:12:49 2011
	elapsed time 0:1:10
	Normal exit
	OG Linux abunta 2.6.32.31 reposis #20 Thurtu GMD Fai has 16.00:10:00 TMG
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	2010 1000 GNO/HIMAX
	====== Excerpt from SMART log ======
	Copy: da-07-osxcj
	SHA1 Span Hashes total span hash: 29ea0899 58ef2a69 5081712f fba68ba5 164c980b
	IO Summary:(Time: Fri Mar 4 14:59:08 2011) Bytes Read: 2,147,483,648 2,147,483,648 bytes written to /dev/sdb6

	-14-OSXCJ Smart Version 2010/11/03 ====== End of Excerpt from SMART log =======	
Results:	Assertion and 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	

5.2.83 DA-14-OSXJ

Test Case DA-	14-OSXJ Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	24 02 71 1 2
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.
Mashau Namat	\1
Tester Name: Test Host:	brl WoFat
Test Date:	Mon Feb 28 10:31:15 2011
Drives:	src(4B-SATA) dst (58-SATA) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
Docup.	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes 2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
	4BOSXJ-sha1 10737418240 37311859444BD914EDAD43D93F2862E76B279A87
Log	===== Destination drive setup =====
Highlights:	312581808 sectors wiped with 58
	===== Comparison of original to clone drive =====
	Sectors compared: 20971520 Sectors match: 20971520
	Sectors match: 209/1520 Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Mon Feb 28 10:53:54 2011
	run finish Mon Feb 28 10:59:45 2011
	elapsed time 0:5:51
	Normal exit
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	Copy: da-07-osxj
	SHA1 Span Hashes total span hash: 37311859 444bd914 edad43d9 3f2862e7 6b279a87
	IO Summary:(Time: Mon Feb 28 10:40:33 2011) Bytes Read: 10,737,418,240 10,737,418,240 bytes written to /dev/sdb1

	====== End of Excerpt from SMART log ======	
Results:	Assertion and 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
	3	-

5.2.84 DA-14-OSXU

Test Case DA-	14-OSXU Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file. AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	WoFat
Test Date:	Fri Mar 4 15:37:07 2011
Drives:	src(4B-SATA) dst (58-SATA) other (67-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C >
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other 4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes 4BOSXU-sha1 3221225472 D102A01562C82533C052CE6CFBB1D467EC9B5BC6
	IDODAO SHAI SZZIZZSIYZ DIOZAOISOZCOZSSSCOSZCEOCIDDIDIO/HC/DSDCO
Log	===== Destination drive setup ======
Highlights:	312581808 sectors wiped with 58
	===== Comparison of original to clone drive =====
	Sectors compared: 6291456 Sectors match: 6291456
	Sectors differ: 0
	Bytes differ: 0
	Diffs range:
	run start Fri Mar 4 16:13:11 2011
	run finish Fri Mar 4 16:14:58 2011
	elapsed time 0:1:47
	Normal exit
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	2010 1000 Cho, Binan
	====== Excerpt from SMART log ======
	Copy: da-07-osxu
	SHA1 Span Hashes total span hash: d102a015 62c82533 c052ce6c fbb1d467 ec9b5bc6
	-
	IO Summary:(Time: Fri Mar 4 15:43:40 2011) Bytes Read: 3,221,225,472
	3,221,225,472 bytes written to /dev/sdb3

Test Case Di	e DA-14-OSXU Smart Version 2010/11/03 ====== End of Excerpt from SMART log =======	
Results:	Assertion and 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	

5.2.85 DA-14-SATA28

Test Case DA-	14-SATA28 Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Mon Feb 14 10:22:56 2011
Drives:	src(4B-SATA) dst (24-SATA) other (68-SATA)
Source	src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 >
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C ></pre>
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended 5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
Log	===== Destination drive setup =====
Highlights:	156301488 sectors wiped with 24
	Game and a second
	===== 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
	===== Tool Settings: =====
	dst-interface SATA28
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	Copy: da-06-sata28
	SHA1 Span Hashes total span hash: 70cc62b4 3f6a41ca 4d6760aa 0b9b4c41 5d3f48e2
	IO Summary:(Time: Mon Feb 14 14:09:47 2011) Bytes Read: 80,026,361,856 80,026,361,856 bytes written to /dev/sdb

====== End of Excerpt from SMART log ======	
Assertion and 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
	Assertion and Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file. AO-13 Clone created using interface AI. AO-14 An unaligned clone is created. AO-17 Excess sectors are unchanged.

DA-14-SATA28-IMAGE2 5.2.86

Test Case DA-	14-SATA28-IMAGE2 Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Mon Feb 14 10:24:07 2011
Drives:	src(4B-SATA) dst (25-SATA) other (5A-SATA)
Source	<pre>src hash (SHA1): < 70CC62B43F6A41CA4D6760AA0B9B4C415D3F48E2 ></pre>
Setup:	<pre>src hash (MD5): < 746B4C06CDD5FBD67C0820DB4325B40C ></pre>
	156301488 total sectors (80026361856 bytes)
	Model (ST380815AS) serial # (6QZ5C9V5)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020971520 0000/001/01 1023/254/63 AF other
	2 P 020971629 010485536 1023/254/63 1023/254/63 AF other
	2 P 0209/1629 010485536 1023/254/63 1023/254/63 AF other 3 P 031457223 006291456 1023/254/63 1023/254/63 A8 other
	4 X 037748679 008388694 1023/254/63 1023/254/63 05 extended
	5 S 000000039 004194304 1023/254/63 1023/254/63 AF other
	6 x 004194343 004194351 1023/254/63 1023/254/63 05 extended
	7 S 000000047 004194304 1023/254/63 1023/254/63 AF other
	8 S 000000000 000000000 0000/000/00 0000/000/00 00
	1 020971520 sectors 10737418240 bytes
	2 010485536 sectors 5368594432 bytes
	3 006291456 sectors 3221225472 bytes
	5 004194304 sectors 2147483648 bytes
	7 004194304 sectors 2147483648 bytes
_	
Log	===== Destination drive setup =====
Highlights:	156301488 sectors wiped with 25
	Comparison of existing to alone drive
	===== Comparison of original to clone drive ====== Sectors compared: 156301488
	Sectors match: 156301488
	Sectors differ: 0
	Bytes differ: 0
	Diffs range
	O source read errors, O destination read errors
	===== Tool Settings: ======
	dst-interface SATA28
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	Evgornt from CMART log
	====== Excerpt from SMART log ======
	Copy: da-06-sata28-image2
	SHA1 Span Hashes
	total span hash: 70cc62b4 3f6a41ca 4d6760aa 0b9b4c41 5d3f48e2
	IO Summary: (Time: Mon Feb 14 14:12:59 2011)
	Bytes Read: 80,026,361,856
	80,026,361,856 bytes written to /dev/sdc

	====== End of Excerpt from SMART log ======	=
Results:	Assertion and Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-12 A clone is created from an image file.	as expected
	AO-13 Clone created using interface AI.	as expected
	AO-14 An unaligned clone is created.	as expected
	AO-17 Excess sectors are unchanged.	as expected
	AO-23 Logged information is correct.	as expected

5.2.87 DA-14-SATA48

Test Case DA-	14-SATA48 Smart Version 2010/11/03	
Case	DA-14 Create an unaligned clone from an image	file.
Summary:		
Assertions:	AM-03 The tool executes in execution environment	nt 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	ector written to the clone is
	accurately written to the same disk address on	the clone that the sector
	occupied on the digital source.	
	AO-17 If requested, any excess sectors on a cl	one destination device are
	not modified.	
	AO-23 If the tool logs any log significant inf	ormation, the information is
	accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	WoFat	
Test Date:	Fri Feb 11 08:24:02 2011	
Drives:	src(OD-SATA) dst (46-SATA) other (67-SATA)	
Source	<pre>src hash (SHA1): < BAAD80E8781E55F2E3EF528CA73</pre>	
Setup:	<pre>src hash (MD5): < 1FA7C3CBE60EB9E89863DED2411E</pre>	40C9 >
	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-WMAEH267	8216)
	N Start LBA Length Start C/H/S End C/H/S boot	
	1 P 000000063 488375937 0000/001/01 1023/254/	
	2 P 000000000 000000000 0000/000/00 0000/000/	
	3 P 000000000 000000000 0000/000/00 0000/000/	
	4 P 000000000 000000000 0000/000/00 0000/000/	00 00 empty entry
	1 488375937 sectors 250048479744 bytes	
Log	===== Destination drive setup ======	
Highlights:	488397168 sectors wiped with 46	
	===== 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 error	S
	===== Tool Settings: =====	
	dst-interface SATA48	
	ust-intellace SAIA40	
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu	SMD Eri Apr 16 08.10.00 ima
		Pur LII WAI IO 00.10.07 OIC
	2010 i686 GNU/Linux	
	====== Excerpt from SMART log ======	
	Excelpt from SMAKT 109	
	Copy: da-06-sata48	
	- copy - ua-00 sacato	
	SHA1 Span Hashes	
	total span hash: baad80e8 781e55f2 e3ef528c a	73bd41d 228c1377
	cotal span hash. Dadasses /olessiz eselszoc a	,554114 22001577
	IO Summary:(Time: Fri Feb 11 10:42:01 2011)	
	Bytes Read: 250,059,350,016	
	250,059,350,016 bytes written to /dev/sdb	
		_
	====== End of Excerpt from SMART log ======	-
Results:		
VEDUTIE.	Assertion and 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	A-14-SATA48 Smart Version 2010/11/03	
	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	

5.2.88 DA-14-SCSI

Case DA-14 Create an unaligned clone from an image file. Summary: AM-03 The tool executes in execution environment XR. 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: DEVIVES: Tester Name: New Feb 9 09:11:09 2011 DEVIVES: TOTAL NEW FEB 9 09:11:09 2011 TOTAL NEW FEB 9 09:	Test Case DA-	14-SCSI Smart Version 2010/11/03
ABSERTIONS: AM-012 If requested, a clone is created from an image file. AD-13 A clone is created using access interface DST-AI to write to the clone device. AD-14 If an unaligned clone is created, each sector written to the clone device. AD-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. AD-17 If requested, any excess sectors on a clone destination device are not modified. AD-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: brl		DA-14 Create an unaligned clone from an image file.
A0-12 If requested, a clone is created from an image file. A0-13 A clone is created using access interface DST-AI to write to the clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: hr	•	
A0-13 A clone is created using access interface DST-At to write to the clone device. A0-14 If an unaligned clone is created, each sector writen to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-21 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Name: bri Test Not: Max Test Date: Med Peb 9 09:11:09 2011 Drives: Source src hash (SHA1): < 4A6941F133738A22B107C844B4D7FA6158BECB82 > sectors such ash (MD5): < A97C87367A2C9D5233B90AC09224F938 > 17938985 total sectors (9184760320 bytes) Model (ATLASLOK2-T70923) serial # (169028142436) Log ### Highlights: Log ### Highlights: ### Tie87370 sectors wiped with CC ### Comparison of original to clone drive ### Sectors and the 17938985 Sectors and the 17938985 Sectors and the 17938985 Sectors differ: 0 Diffs range Source (17938985) has 53748385 fewer sectors than destination (71687370) Zero fill: 0 Sor Byte fill (CC): 53748385 Other fill: 0 Other no fill: 0 Zero fill range: Dst fill range: Dst fill range: Oster fill san shash 4a6941f1 337a8a22 bl0fc844 bd47fa61 58becb82 IO Summary:(Time: Wed Feb 9 10:15:15 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/edf ###################################	Assertions:	
clone device. A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. TestExt Name: Drives:		
A0-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. TestE Name: Max Test Date: Max Test Date: Wed Feb 9 09:11:09 2011 Drives: src(R0) dat (CC) other (3A-SATA) Source src hash (SHA1): < 4A6941F13378R822B10FC844BAD7FA6158BECB82 > scr hash (MS5): < A97C8785R87A20F2389A0C90284F938 > 17938945 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (159028142436) Log ### Highlights: TestE Comparison of original to clone drive ===== Sectors compared: 17938945 Sectors match: 17938945 Sectors match: 17938945 Sectors match: 17938945 Sectors match: 1793895 Sectors differ: 0 Diffs range Source (17938985) has 53748385 fewer sectors than destination (71687370) Zero fill: 0 Src Ryte fill (CC): 53748385 Other fill: 0 Other not fill: 0 Zero fill range: Dst fill range: Dst fill range: Other not filled range: Osurce read errors, 0 destination read errors #### Source Record of Section Record of Sectors Secto		-
accurately written to the same disk address on the clone that the sector occupied on the digital source. A0-17 If requested, any excess sectors on a clone destination device are not modified. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Date: Max Test Date: Med Feb 9 09:11:09 2011 Drives: Src(E0) dst (CC) other (3A-SATA) Drives: Src hash (SHA1): < 4A6941F1337A8A22B107C944B4D7FA6158BECB82 > Src hash (SHA1): < 4A6941F137A8A22B107C944B4D7FA6158BECB82 > Src hash (SHA1): < 4A6941F13A7A8A22B107C944B4D7FA6158BECB82 > Src hash (SHA1): < 4A6941F13A7A8A22B107C944B4D7FA615BECB82 > Src hash (SHA1): < 4A6941F13A7A8A22B107C944B4D7FA615BECB82 > Src hash (SHA1): < 4A6941F13A7A8A22B107C944B4D7FA615BECB82 > Src hash (SHA1): < 4A6941F13A7A8A		
occupied on the digital source. AD-17 ff requested, any excess sectors on a clone destination device are not modified. AD-23 ff the tool logs any log significant information, the information is accurately recorded in the log file. TestE Name: bri Test Most: Max Test Date: Med Feb 9 09:11:09 2011 Drives: src(E0) det (CC) other (3A-SATA) Source src hash (SEA1): < 4A6941F1337A8A22B10FC844BAD7FA6158BECB82 > ser hash (MP5): < A97C87587A2F05233890AC93284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log ====== Comparison of original to clone drive ===== Sectors compared: 17938985 Sectors match: 17938985 Sectors fiffer: 0 Diffs range Source (17938985) has 53748385 fewer sectors than destination (71687370) Zero fill: 0 Src Byte fill (CC): 53748385 Other fill: 0 Obst Byte fill (CC): 53748385 Other fill: 0 Other no fill: 0 Zero fill range: Dat fill range: Dat fill range: Other not filled range: Osurce read errors, 0 destination read errors ====== Tool Settings: ===== dst-interface SCSI OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 (SMU/Linux ====================================		
AO-17 If requested, any excess sectors on a clone destination device are not modified. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Date: Box: Test Date: Ned Feb 9 09:11:09 2011 Drives: Surce Ned Feb 9 09:11:09 2011 Drives: Setup: Setup: Setup: Setup: Setup: A0-28 If Ne SHA1): < 4A6941F137ABA22B10FC844B4D7FA6158BECB82 > serc hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 cutal sectors (9184760322 bytes) Model (ATLASIOR2-TT092J) serial # (169028142436) Log		-
not modified. AD-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: br! Test Host: Max Test Date: Wed Feb 9 09:11:09 2011 Drives: src[E0] dst (CC) other (3A-SATA) Source Sctup: Src hash (ND5): < A97C873687AC905233890AC09284F938 > 17938885 total sectors (9184760320 bytes) Model (ATLASIOK2-TY092J) serial # (169028142436) Log ====== Destination drive setup ====== Highlights: 71687370 sectors wiped with CC ====== Comparison of original to clone drive ===== Sectors compared: 17938895 Sectors match: 17938895 Sectors match: 17938985 Sectors differ: 0 Diffs range Source (1793895) has 53748385 fewer sectors than destination (71687370) Zero fill: 0 Src Byte fill (CC): 53748385 Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: 17938985-71687369 Other fill range: 17938985-71687369 Other fill range: Other not filled range: 0 source read errors, 0 destination read errors ===== Tool Settings: ===== dst-interface SCSI OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 1686 GMV/inux ====== Excerpt from SMART log ======= Copy: da-06-scsi SHAl Span Hashes total span hash: 4a6941f1 337a9a22 b10fc844 b4d7fa61 58becb82 IO Summary: (Time: Wed Feb 9 10:15:15 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to /dev/sdf ======= End of Excerpt from SMART log =======		
A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test Nome: br1		
### Securately recorded in the log file. Tester Name: br		
Test Date: Mex Test Date: Wed Feb 9 09:11:09 2011 Drives: src (B0) dst (CC) other (3A-SATA) Source Src hash (SRA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > Src hash (MD5): < 4A97CB76B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATTAS10K2-TT092J) serial # (169028142436) Log Highlights: Log Highlights: Test Comparison of original to clone drive ===== Sectors compared: 17938985 Sectors match: 17938985 Sectors match: 17938985 Sectors differ: 0 Differ range Source (17938985) has 53748385 fewer sectors than destination (71687370) Zero fill: 0 Src Byte fill (CC): 53748385 Other fill: 0 Other no fill: 0 Zero fill range: Post fill range: Other other of the range: Other other of the range: Other other of the range: Other other other of the range: Other other other other of the range: Other		
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Drives: src(EO) dst (CC) other (3A-SATA)	Test Host:	Max
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Results:		====== End of Excerpt from SMART log ======
Results:		
	Results:	

Test Case DA	-14-SCSI Smart Version 2010/11/03	
	Assertion and 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	

5.2.89 DA-14-SWAP

Test Case DA-	14-SWAP Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the
	clone device. AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Fri Mar 4 09:12:51 2011
Drives:	src(43) dst (4E-SATA) other (3A-SATA)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	<pre>src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>
	78125000 total sectors (4000000000 bytes)
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 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 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 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	$14 \times 029431080 \ 027712125 \ 1023/000/01 \ 1023/254/63 \ 05$ extended
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	1 020980827 sectors 10742183424 bytes
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes 7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 2146/65824 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 004200967 Sectors 2134991104 Bytes 15 027712062 sectors 14188575744 bytes
	43swap-md5sum 2154991103 4B602964A30FE20D1B22B046A7375A7C
	43swap-shalsum 2154991103 F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF
Log	===== Destination drive setup =====
Highlights:	156301488 sectors wiped with 4E
	====== Comparison of original to clone drive ======
	Sectors compared: 4208967
	Sectors match: 4208960
	Sectors differ: 7
	Bytes differ: 3493
	Diffs range: 4208960-4208966
	run start Fri Mar 4 10:52:10 2011
	run finish Fri Mar 4 10:53:34 2011
	elapsed time 0:1:24 Normal exit

	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux	SMP Fri Apr 16 08:10:02 UTC
	====== Excerpt from SMART log ======	
	Copy: da-07-swap	
	task aborted.	
	IO Summary: Discrepancy! (Time: Fri Mar 4 10:0	14:29 2011)
	Bytes Read: 2,154,991,104 2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ======	·
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ======	
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ====== Assertion and Expected Result	Actual Result
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ====== Assertion and Expected Result AM-03 Execution environment is XE.	Actual Result as expected
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ====== Assertion and Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file.	Actual Result as expected task aborted
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ====== Assertion and 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.	Actual Result as expected task aborted as expected
Results:	2,154,987,520 bytes written to /dev/sdb10 ====== End of Excerpt from SMART log ====== Assertion and Expected Result AM-03 Execution environment is XE. AO-12 A clone is created from an image file.	Actual Result as expected task aborted

5.2.90 DA-14-SWAP-ALT

Test Case DA-	14-SWAP-ALT Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	McGarrett
Test Date:	Fri Mar 11 10:38:12 2011
Drives:	src(43) dst (45-SATA) other (3A-SATA)
Source	src hash (SHA1): < 888E2E7F7AD237DC7A732281DD93F325065E5871 >
Setup:	<pre>src hash (MD5): < BC39C3F7EE7A50E77B9BA1E65A5AEEF7 ></pre>
	78125000 total sectors (4000000000 bytes)
	Model (0BB-75JHC0) serial # (WD-WMAMC46588)
	N Start LBA Length Start C/H/S End C/H/S boot Partition type
	1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended
	3 S 000000063 000032067 1023/001/01 1023/254/63 01 Fat12
	4 x 000032130 002104515 1023/000/01 1023/254/63 05 extended
	5 S 000000063 002104452 1023/001/01 1023/254/63 06 Fat16
	6 x 002136645 004192965 1023/000/01 1023/254/63 05 extended
	7 S 000000063 004192902 1023/001/01 1023/254/63 16 other
	8 x 006329610 008401995 1023/000/01 1023/254/63 05 extended
	9 S 000000063 008401932 1023/001/01 1023/254/63 0B Fat32
	10 x 014731605 010490445 1023/000/01 1023/254/63 05 extended
	11 S 000000063 010490382 1023/001/01 1023/254/63 83 Linux
	12 x 025222050 004209030 1023/000/01 1023/254/63 05 extended
	13 S 000000063 004208967 1023/001/01 1023/254/63 82 Linux swap
	14 x 029431080 027712125 1023/000/01 1023/254/63 05 extended
	15 S 000000063 027712062 1023/001/01 1023/254/63 07 NTFS
	16 S 000000000 000000000 0000/000/00 0000/000/00 00
	17 P 000000000 000000000 0000/000/00 0000/000/00 00
	18 P 000000000 000000000 0000/000/00 0000/000/00 00
	3 000032067 sectors 16418304 bytes
	5 002104452 sectors 1077479424 bytes
	7 004192902 sectors 2146765824 bytes
	9 008401932 sectors 4301789184 bytes
	11 010490382 sectors 5371075584 bytes
	13 004208967 sectors 2154991104 bytes
	15 027712062 sectors 14188575744 bytes
	43swap-md5sum 2154991103 4B602964A30FE20D1B22B046A7375A7C
	43swap-sha1sum 2154991103 F5B062CC31DA088DF7FAF8F7A47E500BF4244BCF
Log	===== Destination drive setup =====
Highlights:	10000001 sectors wiped with 45
	Companies of original to glone duite
	===== Comparison of original to clone drive =====
	Sectors compared: 4208967 Sectors match: 4208960
	Sectors match: 4208960 Sectors differ: 7
	Bytes differ: 3577
	Diffs range: 4208960-4208966
	Source (4208967) has 1028097 fewer sectors than destination (5237064)
	Zero fill: 0
	Src Byte fill (43): 0
	Dst Byte fill (45): 1028097

Test Case DA-	14-SWAP-ALT Smart Version 2010/11/03	
Test Case DA-	Other fill: 0 Other no fill: 0 Zero fill range: Src fill range: Src fill range: Dst fill range: 4208967-5237063 Other fill range: Other not filled range: run start Fri Mar 11 11:42:43 2011 run finish Fri Mar 11 11:44:46 2011 elapsed time 0:2:3 Normal exit OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu 2010 i686 GNU/Linux ====== Excerpt from SMART log ======= Copy: da-07-swap SHA1 Span Hashes total span hash: 18b73d89 2d772b88 437ce039 2d IO Summary:(Time: Fri Mar 11 11:27:51 2011) Bytes Read: 2,154,991,104 2,154,991,104 bytes written to /dev/sda5 ======== End of Excerpt from SMART log ========	e1732ca 8fe2a2f4
Results:		
	Assertion and 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
Des lessis.	The extend was alternated	
Analysis:	Expected results achieved	

5.2.91 DA-14-THUMB

Test Case DA-	14-THUMB Smart Version 2010/11/03
Case	DA-14 Create an unaligned clone from an image file.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE.
	AO-12 If requested, a clone is created from an image file.
	AO-13 A clone is created using access interface DST-AI to write to the
	clone device.
	AO-14 If an unaligned clone is created, each sector written to the clone is
	accurately written to the same disk address on the clone that the sector
	occupied on the digital source.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name:	brl
Test Host:	Max
Test Date:	Tue Feb 15 14:38:47 2011
Drives:	src(D5-THUMB) dst (D6-THUMB) other (3A-SATA)
	src hash (SHA1): < D68520EF74A336E49DCCF83815B7B08FDC53E38A >
Source Setup:	src hash (MD5): < C843593624B2B3B878596D8760B19954 >
secup.	505856 total sectors (258998272 bytes)
	Model (usb2.0Flash Disk) serial # ()
	Today (ubb2.011db) belial "()
Log	===== Destination drive setup =====
Highlights:	4001760 sectors wiped with D6
3 3	-
	===== 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 errors
	===== Tool Settings: =====
	dst-interface USB
	abe interface obb
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	2010 2000 0.10, 2211111
	====== Excerpt from SMART log ======
	Copy: da-07-thumb
	SHA1 Span Hashes
	total span hash: d68520ef 74a336e4 9dccf838 15b7b08f dc53e38a
	IO Summary:(Time: Tue Feb 15 15:00:44 2011)
	Bytes Read: 258,998,272
	258,998,272 bytes written to /dev/sdg
	====== End of Excerpt from SMART log ======
Results:	
·	

Test Case DA	-14-THUMB Smart Version 2010/11/03	
	Assertion and 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	

5.2.92 DA-14-USB

	DA-14-00B
Test Case DA-	14-USB Smart Version 2010/11/03
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:	brl
Test Host:	Max
Test Date:	Fri Feb 11 12:54:07 2011
Drives:	src(63-FU2) dst (24) other (3A-SATA)
Source Setup:	<pre>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 0F extended 3 S 000000063 113097537 0261/001/01 1023/254/63 0B Fat32 4 S 000000000 000000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	===== Destination drive setup ===== 143374741 sectors wiped with 24
	====== Comparison of original to clone drive ====== Sectors compared: 117304992 Sectors match: 117304992 Sectors differ: 0 Bytes differ: 0 Diffs range Source (117304992) has 26069749 fewer sectors than destination (143374741) Zero fill: 0 Src Byte fill (63): 0 Dst Byte fill (24): 26069749 Other fill: 0 Zero fill range: Src fill range: Src fill range: Other not filled range: Other not filled range: 0 source read errors, 0 destination read errors
	====== Tool Settings: ====== dst-interface SCSI OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	====== Excerpt from SMART log ======
	Copy: da-06-usb

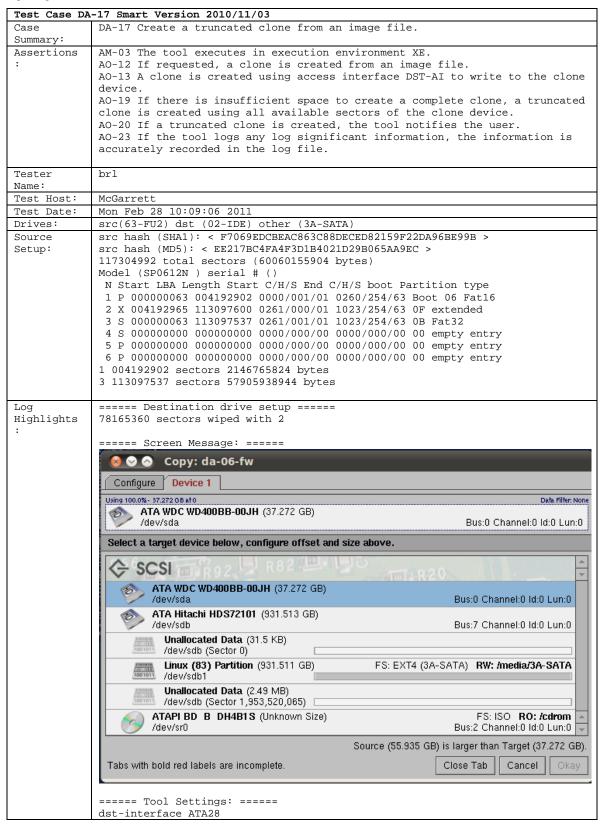
Test Case Da	A-14-USB Smart Version 2010/11/03		
	SHA1 Span Hashes		
	total span hash: f7069edc beac863c 88deced8 2	159f22d a96be99b	
	IO Summary:(Time: Mon Feb 14 11:12:53 2011) Bytes Read: 60,060,155,904 60,060,155,904 bytes written to /dev/sdf		
	====== End of Excerpt from SMART log ======	=	
Results:	s:		
	Assertion and 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		

5.2.93 **DA-16**

Test Case DA-1	6 Smart Version 2010/11/03
Case	DA-16 Create a clone from a subset of 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-16 If a subset of an image or acquisition is specified, all the subset
	is cloned.
	AO-17 If requested, any excess sectors on a clone destination device are
	not modified.
	AO-23 If the tool logs any log significant information, the information is
	accurately recorded in the log file.
Tester Name: Test Host:	brl
Test Date:	Max Wed Feb 23 15:27:53 2011
Drives:	src(E0) dst (25-IDE) other (3A-SATA)
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 >
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 >
20045	17938985 total sectors (9184760320 bytes)
	Model (ATLAS10K2-TY092J) serial # (169028142436)
	Excess destination partition sectors hash:
	@(#) winhash.csh Version 1.4 Created 04/25/08 at 11:28:17
	SHA1 0 - 16775167 83722BE316F75C95CEF0E5DC0D0BC9B00B3E8D84 -
	SHA1 16775168 - 33550335 AACEF840D1C70A07B6F0C7462B68AE164065D2D3 -
	SHA1 33550336 - 50325503 9C072363D41686AF51AB19ECB9B4BC53B238D271 -
	SHA1 50325504 - 58633343 C4F5D56895B9C6815A41FDA2B6137E8B70400253 -
Tan	Doublinghian duling sekun
Log Highlights:	===== Destination drive setup ====== 58633344 sectors wiped with 25
Highlights.	30033344 Sectors wiped with 23
	===== Comparison of original to clone drive ======
	Sectors compared: 17938985
	Sectors match: 1163817
	Sectors differ: 16775168
	Bytes differ: 8152731648
	Diffs range 0-16775167
	Source (17938985) has 40694359 fewer sectors than destination (58633344)
	Zero fill: 0
	Src Byte fill (E0): 0
	Dst Byte fill (25): 40694359 Other fill: 0
	Other no fill: 0
	Zero fill range:
	Src fill range:
	Dst fill range: 17938985-58633343
	Other fill range:
	Other not filled range:
	O source read errors, O destination read errors
	maal Cabbinast
	===== Tool Settings: ===== dst-interface ATA28
	USC-INCELIACE AIAZO
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC
	2010 i686 GNU/Linux
	**
	====== Excerpt from SMART log ======
	Copy: da-06-scsi
	SHA1 Span Hashes
	total span hash: f0a0f715 c3e17726 4ab36bde 9580cd40 b58dc89a
	TO Commonwork (Time: The Ech 24 12:56:20 2011)
	IO Summary: (Time: Thu Feb 24 13:56:20 2011)

Test Case DA-1	6 Smart Version 2010/11/03	
	Bytes Read: 595,874,304 595,874,304 bytes written to ======= End of Excerpt from SMART log ======= Excess destination partition sectors hash: @(#) winhash.csh Version 1.4 Created 04/25/08 at 11 SHA1 0 - 16775167 83722BE316F75C95CEF0E5DC0D0BC9B00 SHA1 16775168 - 33550335 91BDAB284F11FD6DD54A26C7BF SHA1 33550336 - 50325503 9C072363D41686AF51AB19ECB9	B3E8D84 - C7356002A47E97 - B4BC53B238D271 -
Results:	SHA1 50325504 - 58633343 C4F5D56895B9C6815A41FDA2B6 Assertion and Expected Result	137E8B70400253 - Actual 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-16 Clone is created from a subset of an image. AO-17 Excess sectors are unchanged. AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.94 DA-17



Test Case DA	-17 Smart Version 2010/11/03		
	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ====== Excerpt from SMART log =======		
	No logfile created ====== End of Excerpt from SMART log ======		
Results:			
	Assertion and Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-12 A clone is created from an image file.	as expected	
	AO-13 Clone created using interface AI.	as expected	
	AO-19 Truncated clone is created.	as expected	
	AO-20 User notified that clone is truncated.	as expected	
	AO-23 Logged information is correct.	as expected	
Analysis:	Expected results achieved		

5.2.95 **DA-24**

Case DA-24 Verify a valid image. Summary: MA-03 The tool executes in execution environment XE. A0-06 If the tool performs an image file integrity check on an image file that has not been changed since the file was created, the tool shall notify the user that the image file has not been changed. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Dr1 Max Fri Feb 25 10:03:23 2011 Tester Sec(E0) dat (none) other (3A-SATA) Source Sec hash (SM1): < A8-94(F1337A8A22B10FC844B4D7FA6158BECB82 > Sec hash (SM5): < A97C8736B7AC955233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Model (ATLAS10K2-TY092J) serial # (169028142436) Current Hash Summary SMA1 Span Hashes Authenticate: da-06-scsi (FASSED) Current Hash Summary SMA1 Span Hashes SSA1 Span Hashes SSA1 Span Hashes SSA1 Span Hashes SSA2 Span Hashes SSA3	Test Case DA-	24 Smart Version 2010/11/03		
A0-06 If the tool performs an image file integrity check on an image file that has not been changed since the file was created, the tool shall notify the user that the image file has not been changed. A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Tester Name: br1 Test Host: Test Host: Test Bate: Fri Feb 25 10:03:23 2011 Drives: Src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97CBF36B7AC9D523JB9DAC09284F938 > 1793895 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log Highlights:		DA-24 Verify a valid image.		
Name: Test Host: Max Test Date: Fri Feb 25 10:03:23 2011 Drives: Src(B0) det (none) other (3A-SATA) Source Src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > Src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLASIOK2-TY092J) serial # (169028142436) Log Highlights: Authentication Results Authenticity verified 'total span' hashes match Current Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Contain span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82	Assertions:	AO-06 If the tool performs an image file integrity check on an image file that has not been changed since the file was created, the tool shall notify the user that the image file has not been changed. AO-23 If the tool logs any log significant information, the information is		
Test Host: Max Test Date: Fri Feb 25 10:03:23 2011 Drives: Src(B0) dst (none) other (3A-SATA) Source Setup: src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MSD): < A97C8F36E7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLASIOK2-TY092J) serial # (169028142436) Log Highlights: Authentication Results Authenticity verified 'total span' hashes match' Current Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes Orange Fri Fir Feb 25 10:03:23 page 10 processed and page 20 processed and page 10 processed and page 10 processed and page 10 processed and page 20 processed and page 20 processed and page 20 processed and page 30 processed and page 40 processed and		brl		
Test Date:		Max		
Drives: Src (E0) dst (none) other (3A-SATA) Source Src hash (SHAI): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (Mb5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log Highlights: ### Authentication Results Authenticity verified 'total span' hashes match Okay				
Source Setup: src hash (SHAl): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log Highlights: ### Authentication Results Authenticity verified 'total span' hashes match Okay				
Setup: Setup: 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436) Log		, , , , , , , , , , , , , , , , , , , ,	B4D7FA6158BECB82 >	
Interpretation and Expected Result Assertion and Expected Result Assertion and Expected Result Assertion and Expected Result Assertion and Expected Result Actual Result				
Log Highlights:	-			
Log Highlights:		_ · · · · · · · · · · · · · · · · · · ·	2436)	
### Authentication Results Authentication Results Authenticity verified 'total span' hashes match Okay				
Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-06 Tool verifies image file unchanged. as expected AO-23 Logged information is correct. as expected	_	Model (ATLAS10K2-TY092J) serial # (169028142436) ====== Screen Message: ===== Authenticity verified 'total span' hashes match Okay ====== Excerpt from SMART log ====== Authenticate: da-06-scsi (PASSED) Current Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Stored Hashes SHA1 Span Hashes		
Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-06 Tool verifies image file unchanged. as expected AO-23 Logged information is correct. as expected		•		
AM-03 Execution environment is XE. as expected AO-06 Tool verifies image file unchanged. as expected AO-23 Logged information is correct. as expected	Results:			
AO-06 Tool verifies image file unchanged. as expected AO-23 Logged information is correct. as expected		<u> </u>		
AO-23 Logged information is correct. as expected				
Analysis: Expected results achieved		AO-23 Logged information is correct.	as expected	
Analysis: Expected results achieved				
	Analysis:	Expected results achieved		

5.2.96 **DA-24-DEVICE**

Test Case DA-	24-DEVICE Smart Version 2010/11/03	
Case Summary:	DA-24 Verify a valid image.	
Assertions:	AM-03 The tool executes in execution environment XE. AO-06 If the tool performs an image file integrity check on an image file that has not been changed since the file was created, the tool shall notify the user that the image file has not been changed. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.	
Tester Name:	brl	
Test Host:	Max	
Test Date:	Fri Feb 25 10:22:51 2011	
Drives:	src(E0) dst (none) other (3A-SATA)	
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC844	B4D7FA6158BECB82 >
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90AC09	
-	17938985 total sectors (9184760320 bytes)	
		2436)
Log Highlights:	Model (ATLAS10K2-TY092J) serial # (169028142436) ====== Screen Message: ====== Authentication Results Authenticity verified 'total span' hashes match! Okay ====== Excerpt from SMART log ======= Authenticate: da-06-scsi (PASSED) Image Hash Summary SHAl Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 Device Hash Summary SHAl Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 ======== End of Excerpt from SMART log ========	
Results:	+	
	Assertion and Expected Result	Actual Result
	AM-03 Execution environment is XE.	as expected
	AO-06 Tool verifies image file unchanged.	as expected
	AO-23 Logged information is correct.	as expected
Analysis:	Expected results achieved	

5.2.97 DA-25

	25 Smart Version 2010/11/03	
Case Summary:	DA-25 Detect a corrupted image.	
Assertions:	AM-03 The tool executes in execution environment AO-07 If the tool performs an image file integri that has been changed since the file was created user that the image file has been changed. AO-08 If the tool performs an image file integri that has been changed since the file was created user of the affected locations. AO-23 If the tool logs any log significant infor accurately recorded in the log file.	ty check on an image file , the tool shall notify the ty check on an image file , the tool shall notify the
Tester Name:	brl	
Test Host:	Max	
Test Date:	Fri Feb 25 13:46:52 2011	
Drives:	<pre>src(E0) dst (none) other (3A-SATA)</pre>	
Source Setup:	<pre>src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436)</pre>	
Log Highlights:	===== Image file corrupted for test run: ===== Change byte 2059 of file /media/3A-SATA/da-06-scsi/da-06-scsi.image.001 from 0x35 to 0x00 ======= Excerpt from SMART log =======	
	Authenticate: da-06-scsi (FAILED)	
	Current Hash Summary SHA1 Span Hashes total span hash: c233b031 3d626b4d 390e40bf 7065a30b 6fb48bde Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82	
	====== End of Excerpt from SMART log ======	
Results:		
	Assertion and 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	

5.2.98 **DA-25-DEVICE**

Test Case DA-	25-DEVICE Smart Version 2010/11/03	
Case Summary:	DA-25 Detect a corrupted image.	
Assertions:	AM-03 The tool executes in execution environment AO-07 If the tool performs an image file integri that has been changed since the file was created user that the image file has been changed. AO-08 If the tool performs an image file integri that has been changed since the file was created user of the affected locations. AO-23 If the tool logs any log significant infor accurately recorded in the log file.	ty check on an image file , the tool shall notify the ty check on an image file , the tool shall notify the
Tester Name:	brl	
Test Host:	Max	
Test Date:	Fri Feb 25 13:47:11 2011	
Drives:	<pre>src(E0) dst (none) other (3A-SATA)</pre>	
Source Setup:	src hash (SHA1): < 4A6941F1337A8A22B10FC844B4D7FA6158BECB82 > src hash (MD5): < A97C8F36B7AC9D5233B90AC09284F938 > 17938985 total sectors (9184760320 bytes) Model (ATLAS10K2-TY092J) serial # (169028142436)	
Log Highlights:	===== Image file corrupted for test run: ====== Change byte 2059 of file /media/3A-SATA/da-06-scsi/da-06-scsi.image.001 from 0x35 to 0x00 ======= Excerpt from SMART log ======= Authenticate: da-06-scsi (FAILED) Image Hash Summary SHA1 Span Hashes total span hash: c233b031 3d626b4d 390e40bf 7065a30b 6fb48bde Device Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 ======= End of Excerpt from SMART log =======	
Results:		
	Assertion and 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	
unallars.	Expected results actived	

5.2.99 DA-26-EWC2R

Test Case DA-	26-EWC2R Smart Version 2010/11/03
Case	DA-26 Convert an image to an alternate image file format.
Summary:	
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.
Tester	brl
Name:	
Test Host:	WoFat
Test Date:	Wed Mar 2 16:11:23 2011
Drives:	src(43) dst (5A-SATA) other (67-SATA)
Source Setup:	<pre>src hash (SHA1): < 888EZETFTAD237DC7A73228IDD93F325065E5871 > src hash (MD5): < BC39C3FTEETA50E77B9BA1E65A5AEEF7 > 78125000 total sectors (40000000000 bytes) Model (0BB-75JHC0) serial # (WD-WMAMC46588) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 020980827 0000/001/01 1023/254/63 0C Fat32X 2 X 020980890 057143205 1023/000/01 1023/254/63 0F extended 3 S 000000063 000032067 1023/001/01 1023/254/63 0F extended 5 S 000000063 002104515 1023/0001/01 1023/254/63 05 extended 5 S 000000063 002104515 1023/001/01 1023/254/63 05 extended 5 S 000000063 002104452 1023/001/01 1023/254/63 05 extended 7 S 000000063 004192965 1023/001/01 1023/254/63 05 extended 9 S 000000063 004492902 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401995 1023/001/01 1023/254/63 05 extended 9 S 000000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 000000063 008401932 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490345 1023/001/01 1023/254/63 05 extended 11 S 000000063 010490345 1023/001/01 1023/254/63 82 Linux 12 x 025222050 004209030 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027712125 1023/001/01 1023/254/63 82 Linux swap 14 x 029431080 027712125 1023/001/01 1023/254/63 05 extended 15 S 000000063 004208967 1023/001/01 1023/254/63 05 extended 15 S 0000000063 027712062 1023/001/01 1023/254/63 05 extended 15 S 0000000063 027712425 1023/001/01 1023/254/63 05 extended 15 S 0000000063 027712425 1023/001/01 1023/254/63 05 extended 15 S 000000000 00000000 0000/000/00 0000/000/00 00</pre>
Log Highlights:	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux
	===== Image file segments ====== 1
	Copy: da-10-ewcompress Authenticate: da-26-ewc2r (PASSED)
	Current Hash Summary SHA1 Span Hashes total span hash: 888e2e7f 7ad237dc 7a732281 dd93f325 065e5871
	Stored Hashes SHA1 Span Hashes

Test Case DA-26-EWC2R Smart Version 2010/11/03			
	total span hash: 888e2e7f 7ad237dc 7a732281 dd93f325 065e5871		
	IO Summary: (Time: Wed Mar 2 17:25:21 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-ewc2r" ======= End of Excerpt from SMART log =======		
Results:			
	Assertion and Expected Result	Actual Result	
	AM-03 Execution environment is XE.	as expected	
	AO-09 Tool converts image file format. as expected		
	AO-23 Logged information is correct. as expected		
Analysis:	Expected results achieved		

5.2.100 DA-26-BZ2R

DA-26 Convert an image to an alternate image file format. Summary:	Test Case DA-	26-BZ2R Smart Version 2010/11/03	
### A0-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. ### A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. #### Test Bost: ### A0-23 If the tool logs any log significant information, the information is accurately recorded in the log file. #### Test Bost: ### A0-23 If the Mar 3 10:44:43 2011 ### Description of the Property of the Propert		DA-26 Convert an image to an alternate i	mage file format.
Name:		AO-09 If the tool converts a source imagimage file in another format, the acquirimage file is the same as the acquired d AO-23 If the tool logs any log significa	e file from one format to a target ed data represented in the target ata in the source image file.
Test Date:		brl	
Test Date: Thi Mar 3 10:44:43 2011 Drives: src(41) dst (67-SATA) other (68-SATA) Source sr hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E202671UD8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD40OBB-75JHC0) serial # (WD-WMANC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 00000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00		WoFat	
Source			
Setup: src hash (MD5): < 0A6AEF78BDC14E2026710BCCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd)	Drives:	src(41) dst (67-SATA) other (68-SATA)	
### Highlights: 2010 i686 GNU/Linux ====== Image file segments ====== 1	Source	<pre>src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 00000000 0000/000/00 0000/000/00 00</pre>	
Authenticate: da-26-bz2r (PASSED) Current Hash Summary SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a5lcc9 Stored Hashes SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a5lcc9 IO Summary:(Time: Thu Mar 3 11:43:06 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-bz2r" ======= End of Excerpt from SMART log ======== Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected AO-23 Logged information is correct. as expected	-	: 2010 i686 GNU/Linux ===== Image file segments ===== 1	
SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 Stored Hashes SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 IO Summary:(Time: Thu Mar 3 11:43:06 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-bz2r" ======= End of Excerpt from SMART log ======== Results: Assertion and Expected Result Actual Result			
SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 IO Summary: (Time: Thu Mar 3 11:43:06 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-bz2r" ====== End of Excerpt from SMART log ======= Results: Assertion and Expected Result		SHA1 Span Hashes	
Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-bz2r" ====== End of Excerpt from SMART log ======= Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected AO-23 Logged information is correct. as expected		SHA1 Span Hashes	
Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected AO-23 Logged information is correct. as expected	Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-		a-26-bz2r"
AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected AO-23 Logged information is correct. as expected	Results:		
AO-09 Tool converts image file format. as expected AO-23 Logged information is correct. as expected			
		AO-09 Tool converts image file format.	as expected
	- 1 '		

5.2.101 DA-26-G2R

Dase Da-26 Convert an image to an alternate image file format.	Test Case DA-	26-G2R Smart Version 2010/11/03		
AO-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file. Test ter				
Name: Test Host:		AO-09 If the tool converts a source image file from one format to a targe image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information i		
Test Date: Thu Mar 3 14:10:55 2011 Drives: src(41) dst (67-SATA) other (68-SATA) Source src hash (SHAI): < 15CAALA307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8BF78BDC148206710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65535/015/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC458355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 F 000000063 078107967 0000/000/00 0000/0000/00 000 empty entry 2 P 000000000 0000000000 0000/000/00 0000/000/00 000 empty entry 4 P 000000000 0000000000 0000/000/00 0000/000/00 00		brl		
Test Date: Thu Mar 3 14:10:55 2011 Drives: src(41) dst (67-SATA) other (68-SATA) Source		WoFat		
Source				
Setup: src hash (MD5): < 0A6A8BF78BDC14E2026710D8CCB5607C > 78125000 total sectors (4000000000 bytes) 65534/015/63 (max cyl/hd values) 65534/015/63 (max cyl/hd values) 65533/016/63 (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 0000/000/00 0000/000/00 00	Drives:			
### Highlights: 2010 i686 GNU/Linux	Source	<pre>src hash (SHA1): < 15CAA1A307271160D8372668BF8A03FC45A51CC9 > src hash (MD5): < 0A6A8EF78BDC14E2026710D8CCB5607C > 78125000 total sectors (40000000000 bytes) 65534/015/63 (max cyl/hd values) 65535/016/63 (number of cyl/hd) IDE disk: Model (WDC WD400BB-75JHC0) serial # (WD-WMAMC4658355) N Start LBA Length Start C/H/S End C/H/S boot Partition type 1 P 000000063 078107967 0000/001/01 1023/254/63 Boot 07 NTFS 2 P 000000000 000000000 0000/000/00 0000/000/00 00</pre>		
Authenticate: da-26-g2r (PASSED) Current Hash Summary SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 Stored Hashes SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 IO Summary: (Time: Thu Mar 3 15:07:20 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-g2r" ======= End of Excerpt from SMART log ======== Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected	-	2010 i686 GNU/Linux ===== Image file segments ===== 1		
SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 Stored Hashes SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 IO Summary:(Time: Thu Mar 3 15:07:20 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-g2r" ====== End of Excerpt from SMART log ======= Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected				
SHA1 Span Hashes total span hash: 15caala3 07271160 d8372668 bf8a03fc 45a51cc9 IO Summary:(Time: Thu Mar 3 15:07:20 2011) Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-g2r" ====== End of Excerpt from SMART log ======= Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected		SHA1 Span Hashes		
Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-g2r" ====== End of Excerpt from SMART log ======= Results: Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected		SHA1 Span Hashes		
Assertion and Expected Result AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected		Bytes Read: 40,000,000,000 40,000,000,000 bytes written to image "da-26-g2r"		
AM-03 Execution environment is XE. as expected AO-09 Tool converts image file format. as expected	Results:			
AO-09 Tool converts image file format. as expected				
		AO-09 Tool converts image file format.	as expected	
Analysis: Expected results achieved	7	The sale of the sa		

5.2.102 **DA-26-R2BZ**

Test Case DA-26-R2BZ Smart Version 2010/11/03				
Case	DA-26 Convert an image to an alternate image file format.			
Summary:				
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.			
Tester	brl			
Name:				
Test Host:	WoFat			
Test Date:	Wed Mar 2 11:14:27 2011			
Drives:	src(E0) dst (67-SATA) other (5A-SATA)			
Source	<pre>src hash (SHA1): < 4A6941F1337A8A22B10FC</pre>			
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90A			
	17938985 total sectors (9184760320 bytes			
	Model (ATLAS10K2-TY092J) serial # (169028142436)			
Log Highlights:	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 6225 2011-03-02 12:01 da-26-r2bz 2 44121880 2011-03-02 11:43 da-26-r2bz.image.001.bz2 3 4634 2011-03-02 11:43 da-26-r2bz.image.info ======= Excerpt from SMART log ======= Copy: da-06-scsi Authenticate: da-26-r2bz (PASSED)			
	Current Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10f	c844 b4d7fa61 58becb82		
	Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82			
	IO Summary:(Time: Wed Mar 2 11:43:48 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to image "da-26-r2bz" ======= End of Excerpt from SMART log =======			
Results:				
	Assertion and Expected Result	Actual Result		
	AM-03 Execution environment is XE.	as expected		
	AO-09 Tool converts image file format.	as expected		
	AO-23 Logged information is correct.	as expected		
Analysis:	Expected results achieved			
wiging:	Expected results achieved			

5.2.103 DA-26-R2EWC

Test Case DA-26-R2EWC Smart Version 2010/11/03				
Case	DA-26 Convert an image to an alternate image file format.			
Summary:				
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.			
Tester	brl			
Name:				
Test Host:	WoFat			
Test Date:	Wed Mar 2 13:31:24 2011			
Drives:	src(E0) dst (67-SATA) other (5A-SATA)			
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC			
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90A			
	17938985 total sectors (9184760320 bytes)			
	Model (ATLAS10K2-TY092J) serial # (169028142436)			
Log Highlights:	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux			
	====== Image file segments ====== 1			
	total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82 IO Summary:(Time: Wed Mar 2 13:50:55 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to image "da-26-r2ewc" ======= End of Excerpt from SMART log =======			
Results:				
	Assertion and Expected Result	Actual Result		
	AM-03 Execution environment is XE.	as expected		
	AO-09 Tool converts image file format.	as expected		
	AO-23 Logged information is correct.	as expected		
Analysis:	Expected results achieved			

5.2.104 **DA-26-R2G**

Test Case DA-26-R2G Smart Version 2010/11/03				
Case	DA-26 Convert an image to an alternate image file format.			
Summary:				
Assertions:	AM-03 The tool executes in execution environment XE. AO-09 If the tool converts a source image file from one format to a target image file in another format, the acquired data represented in the target image file is the same as the acquired data in the source image file. AO-23 If the tool logs any log significant information, the information is accurately recorded in the log file.			
Tester	brl			
Name:				
Test Host:	WoFat			
Test Date:	Wed Mar 2 14:16:26 2011			
Drives:	src(E0) dst (67-SATA) other (5A-SATA)			
Source	src hash (SHA1): < 4A6941F1337A8A22B10FC			
Setup:	src hash (MD5): < A97C8F36B7AC9D5233B90A			
	17938985 total sectors (9184760320 bytes	•		
	Model (ATLAS10K2-TY092J) serial # (169028142436)			
Log Highlights:	OS: Linux ubuntu 2.6.32-21-generic #32-Ubuntu SMP Fri Apr 16 08:10:02 UTC 2010 i686 GNU/Linux ===== Image file segments ===== 1 3737 2011-03-02 14:49 da-26-r2g 2 131336524 2011-03-02 14:49 da-26-r2g.image.001.gz 3 4628 2011-03-02 14:49 da-26-r2g.image.info ======= Excerpt from SMART log =======			
	Copy: da-06-scsi Authenticate: da-26-r2g (PASSED)			
	Current Hash Summary SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82			
	Stored Hashes SHA1 Span Hashes total span hash: 4a6941f1 337a8a22 b10fc844 b4d7fa61 58becb82			
	IO Summary: (Time: Wed Mar 2 14:49:17 2011) Bytes Read: 9,184,760,320 9,184,760,320 bytes written to image "da-26-r2g" ======= End of Excerpt from SMART log ========			
Results:				
	Assertion and Expected Result	Actual Result		
	AM-03 Execution environment is XE.	as expected		
	AO-09 Tool converts image file format.	as expected		
	AO-23 Logged information is correct.	as expected		
Analysis:	Expected results achieved			

About the National Institute of Justice

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

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

Strategic Goals

NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

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

Dissemination

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

Agency management

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

Program Areas

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

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

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