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REPORT

Test Results for Software Write Block Tools: RCMP HDL V0.7

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Sarah V. Hart
Director

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August 2004

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Introduction

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

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

This document reports the results from testing the Royal Canadian Mounted Police Hard-Disk Write Lock V0.7 (RCMP HDL) against the *Software Write Block Tool Specification & Test Plan Version 3.0*, available from the CFTT Web site. This specification identifies the top-level tool requirements as:

- The tool shall not allow a protected drive to be changed.
- The tool shall not prevent obtaining any information from or about any drive.
- The tool shall not prevent any operations to a drive that is not protected.

Test results from RCMP HDL V0.4, V0.5, and V0.8 are posted on NIJ's CFTT Web page (<http://www.ojp.usdoj.gov/nij/sciencetech/cftt.htm>). Test results from other software packages and the CFTT testing methodology are also posted on this page.

Test Results for Software Write Block Tools

Tool Tested: RCMP HDL V0.7 010610 ©RCMP 1993-2001

Operating System: MS DOS (Windows 98 DOS) Version 4.10.2222

Supplier: Royal Canadian Mounted Police
Technological Crime Branch
Technical Operations Directorate

Address: 1426 St. Joseph Boulevard
Ottawa, ON K1A 0R2

1.0 Results Summary by Requirements

The tool shall not allow a protected drive to be changed.

For some test cases run, the tool did not block all commands that could change protected drives.

The tool shall not prevent obtaining any information from or about any drive.

Except for one command in the information category, the tool always allowed commands to obtain information from the protected drives for all test cases run. The read drive type (0x15) command was always blocked on protected drives.

The tool shall not prevent any operations to a drive that is not protected.

For all test cases run, the tool always allowed any command to access any unprotected drives.

2.0 Anomalies

The tool blocked the commands that were listed in the documentation as commands that would be blocked. However, the tool did not block two commands in the configuration category that could change the content or accessibility of a protected drive. The commands not blocked were an EDSI Diagnostic command (0x0E) and the Initialize Drive Parameters command (0x09).

In addition, one command in the control category and one command in the information category that could have been allowed were blocked. The blocked commands were the read drive type (0x15) and the extended seek (0x47) commands.

Test Cases: SWB-03, SWB-04, SWB-09, SWB-10, SWB-11, SWB-12, SWB-15, SWB-16, SWB-21, SWB-22, SWB-23, and SWB-24.

3.0 Test Case Selection

The test cases were selected from *Software Write Block Tool Specification & Test Plan Version 3.0*. All 40 test cases defined in the specification were applied to HDL V0.7.

4.0 Test Results by Assertion

This section groups test results by assertion. The assertions were taken from *Software Write Block Tool Specification & Test Plan Version 3.0*.

4.1 Mandatory Assertions

SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command.

Each command in the write category was sent to all protected drives. HDL blocked every command sent from the write category to a protected drive.

SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command.

Each command in the configuration category was sent to all protected drives. The tool did not block two commands in the configuration category that could change the content or accessibility of a protected drive. The commands not blocked were an EDSI Diagnostic command (0x0E) and the Initialize Drive Parameters command (0x09).

Test Cases: SWB-03 and SWB-04.

SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command.

Each command in the miscellaneous category was sent to all protected drives. HDL blocked every command sent from the miscellaneous category to a protected drive.

SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.

Each command in the read category was sent to all protected drives. HDL never blocked any command sent from the read category to a protected drive.

SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.

Each command in the control category was sent to all protected drives. HDL always blocked one of the commands sent, but never blocked the other commands in the control category. The blocked command was the extended seek (0x47) command.

Test Cases: SWB-11 and SWB-12.

SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.

Each command in the information category was sent to all protected drives. HDL always blocked one of the commands sent, but never blocked the other commands in the information category. The blocked command was the read drive type (0x15) command.

Test Cases: SWB-09 and SWB-10.

SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.

HDL always issued the message **Write Lock successfully installed** to indicate that the tool was active.

SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.

HDL always issued the message **N Hard-Disks reported by Int_13h** to indicate that **N** drives were accessible by the interface.

SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.

HDL always issued either the message **Hard-Disk N Locked!** or the message **Hard-Disk N Not Locked!** to indicate the protection status of each covered drive.

SWB-AM-10. If the tool is configured to return *success* on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.

If HDL was configured to return *success* on blocked commands, all blocked commands returned *success*.

SWB-AM-11. If the tool is configured to return *fail* on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.

If HDL was configured to return *fail* on blocked commands, all blocked commands returned *fail*.

4.2 Optional Assertions

SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the write category was sent to all protected drives, HDL blocked every command sent from the write category to a protected drive.

SWB-AO-02. If a subset of all covered drives is specified for protection, then commands from the configuration category shall be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the configuration category was sent to all protected drives, HDL did not block two commands that could change the content or accessibility of a protected drive. The commands not blocked were an EDSI Diagnostic command (0x0E) and the Initialize Drive Parameters command (0x09).

Test Cases: SWB-15 and SWB-16.

SWB-AO-03. If a subset of all covered drives is specified for protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the miscellaneous category was sent to all protected drives, HDL blocked every command sent from the miscellaneous category to a protected drive.

SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the read category was sent to all protected drives, HDL never blocked any command sent from the read category to a protected drive.

SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the control category was sent to all protected drives, HDL always blocked one of the commands sent, but never blocked the other commands sent. The blocked command was the extended seek (0x47) command.

Test Cases: SWB-23 and SWB-24.

SWB-AO-06. If a subset of all covered drives is specified for protection, then commands from the information category shall not be blocked for drives in the selected subset.

When a subset of covered drives was selected and each command in the information category was sent to all protected drives, HDL always blocked one of the commands sent, but never

blocked the other commands sent. The blocked command was the read drive type (0x15) command.

Test Cases: SWB-21 and SWB-22.

SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.

When a subset of covered drives was selected and each command in every category was sent to all unprotected drives, HDL never blocked any command sent to an unprotected drive.

SWB-AO-08. If the tool is active during the operating system boot and shutdown processes then no changes are made to any protected drives.

The system was booted with the test harness and HDL was started from the AUTOEXEC.BAT file. Each command in the write category was sent to every protected drive to show that the tool was active. Finally, the system was shutdown. To ensure that nothing was written to the disks after the harness was no longer active, a posttest SHA1¹ hash value was compared to a pretest SHA1 hash value for each drive used in the test. The SHA1 hash values computed after the test were the same as the values computed before the test, indicating that no changes to the drives occurred during the test.

SWB-AO-09. If the tool is active and the tool is then deactivated then no commands to any drive shall be blocked.

With the tool activated, each command in the write category was sent to each protected drive. The tool was then deactivated. When all commands in every category were subsequently sent to each drive, HDL never blocked any of the commands sent.

SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.

This optional feature is not supported by HDL.

5.0 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the hardware (test computers and hard drives) available for testing. Not all components were used in testing. The following host computers were used for execution of test cases: HecRamsey, McCloud, McMillan, AndWife, Cadfael, Rumpole, Wimsey, and JudgeDee. Ten hard drives (eight different models, three different brands) were used for the tests (Table 5-3).

5.1 Test Computers

Four host computers (**Cadfael**, **Rumpole**, **Wimsey**, and **JudgeDee**) have the following hardware components in common:

Table 5-1. Extended BIOS Host Computer Hardware Components

ASUS CUSL2 Motherboard BIOS: Award Medallion v6.0 Intel Pentium III (Coppermine) 933Mhz 512672k Memory Adaptec 29160N SCSI Adapter card Plextor CR-RW PX-W124TS Rev: 1.06 Iomega 2GB Jaz drive Rev: E.17 LS-120 Super floppy Two slots for removable IDE hard disk drives Two slots for removable SCSI hard disk drive

The computer Rumpole also had a 30GB OnStream SC30 tape drive (not used in the test procedures). The computer JudgeDee had a third slot for a removable IDE hard disk drive.

The computers HecRamsey, McCloud, McMillan, and AndWife have the following hardware components in common:

Table 5-2. Alternate Extended BIOS Host Computer Hardware Components

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

5.2 Hard Disk Drives

The hard disk drives used were selected from the drives listed in Table 5-3. These hard drives were mounted in removable storage modules. Any combination of up to three IDE hard drives and two SCSI hard drives can be installed in HecRamsey, McCloud, McMillan, and AndWife. Any combination of up to two IDE hard drives and two SCSI hard drives can be installed in

Cadfael, Rumpole, Wimsey, or JudgeDee as required for a test. The IDE disks used had jumpers set for *cable select*. The SCSI ID for the SCSI disks was set to either 0 or 1 as required by the test case.

The hard drives used in testing are described in Table 5-3. The **Label** column shows an external identification for the hard drive. The **Model** column shows the model identification string obtained from the drive. The **Interface** column identifies the type of interface used to connect the drive to the computer. The **Usable Sectors** column documents the size of the drive in sectors. The **GB** column gives the size of the drive in gigabytes.

Table 5-3. Hard Drives Used in Testing

Label	Model	Interface	Usable Sectors	GB
1F	QUANTUM_ATLAS10K3_18_SCA	SCSI	35916547	18.38
2B	QUANTUM_QM39100TD-SCA	SCSI	17783249	9.10
64	WDCWD64AA	IDE	12594960	6.44
6F	Maxtor_6Y060L0	IDE	120103200	61.49
8A	WDC_WD200EB-00CSF0	IDE	39102336	20.02
90	WDC_WD300BB-00CAA0	IDE	58633344	30.02
E4	QUANTUM_ATLAS10K2-TY092J	SCSI	17938985	9.18
F6	IBM-DTLA-307020	IDE	40188960	20.57

The drives are set up in a variety of ways, with the common partition types (FAT16, FAT32, FAT32X, NTFS, and Linux ext2) represented. The setup of each drive is documented in Table 5-4. The **Drive Label** column shows an external identification for the hard drive. The **Partition Table** column describes the partition table for the drive. In the partition table description, the column labeled **N** is a sequence number. The unlabeled column identifies a primary partition (P), a primary extended partition (X), a secondary partition within an extended partition (S), or an extended partition within an extended partition (x). The **Start LBA** column identifies the starting logical block address (LBA) of the partition. The **Length** column shows the length of the partition in sectors. The **boot** column indicates the boot partition. The **Partition Type** column contains the two digit hexadecimal partition type code and name of the partition type for common partition types.

Table 5-4. Drive Partition Setup

Drive Label	Partition Table				
1F	N	Start	LBA	Length	boot Partition type
	1	P	000000063	001236942	Boot 0B Fat32
	2	X	001429785	033865020	0F extended
	3	S	000000063	000208782	83 Linux
	4	x	000208845	000144585	05 extended
	5	S	000000063	000144522	0B Fat32
	6	x	000771120	000192780	05 extended
	7	S	000000063	000192717	16 other
	8	S	000000000	000000000	00 empty entry
9	P	035294805	000064260	83 Linux	
2B	No partition table				
64	No partition table				
6F	No partition table				
8A	No partition table				
90	No partition table				

Drive Label	Partition Table					
E4	N	Start LBA	Length	boot	Partition type	
	1 P	000000063	006152832	Boot	0B	Fat32
	2 X	008193150	009735390		0F	extended
	3 S	000000000	000000000		00	empty entry
	4 x	002056320	001237005		05	extended
	5 S	000000063	001236942		07	NTFS
	6 x	005349645	001638630		05	extended
	7 S	000000063	001638567		17	other
	8 x	008498385	001237005		05	extended
	9 S	000000063	001236942		1B	other
F6	N	Start LBA	Length	boot	Partition type	
	1 P	000000063	006152832	Boot	0B	Fat32
	2 X	008193150	031985415		0F	extended
	3 S	000000000	000000000		00	empty entry
	4 x	002056320	001237005		05	extended
	5 S	000000063	001236942		07	NTFS
	6 x	005349645	001638630		05	extended
	7 S	000000063	001638567		17	other
	8 x	030748410	001237005		05	extended
	9 S	000000063	001236942		1B	other

After the drives were created, a SHA1 hash value was computed for the entire drive (Table 5-5). After testing was finished, a SHA1 hash value was computed again (Table 5-6). The lack of change in the SHA1 hash values indicates that no changes were made to the drives during testing.

Table 5-5. Drive SHA1 Values Before Testing

Drive	SHA1 Hash Value
1F	7DB8B538BC38907FC22B1CA79996D97F77421418
2B	2A7810E851B7392C3D4836A5DFFB5E73E8295C6F
64	8F52C49579C70407FE6D0EDCBE3FD7C42972823A
6F	7C2F5F4FB0D04E5F1B51D0888753A1B125A503EA
8A	891444D852E0C48C4713952B3BDAD89E03C205FD
90	08B4905B4D012401656248C39C904F6072476293
E4	25BF8AF6B2D3E0BD1909C96E368DB27F51C49CBF
F6	8034683D5D55BA51409AC7B5CB0845CA2CF6B235

Table 5-6. Drive SHA1 Values After Testing

Drive	SHA1 Hash Value
1F	7DB8B538BC38907FC22B1CA79996D97F77421418
2B	2A7810E851B7392C3D4836A5DFFB5E73E8295C6F
64	8F52C49579C70407FE6D0EDCBE3FD7C42972823A
6F	7C2F5F4FB0D04E5F1B51D0888753A1B125A503EA
8A	891444D852E0C48C4713952B3BDAD89E03C205FD
90	08B4905B4D012401656248C39C904F6072476293
E4	25BF8AF6B2D3E0BD1909C96E368DB27F51C49CBF
F6	8034683D5D55BA51409AC7B5CB0845CA2CF6B235

5.3 Support Software

Support software, Software Write Block Test Harness (SWBT) Release 1.0, was developed to support the testing of interrupt 13h based software write block tools. The program DISKWIPE from the FS-TST Release 1.0 package was used in the drive setup procedure. Both FS-TST Release 1.0 and SWBT Release 1.0 can be obtained from the Web site <http://www.cftt.nist.gov>. The support software has components to monitor interrupt 13 activity (TALLY13.COM) and to issue each of the 256 possible interrupt 13 commands (TEST-HDL.EXE). The TEST-HDL program was written in ANSI C and compiled with the Borland C++ compiler version 4.5. The TALLY13 program was written in assembler language and compiled with Borland Turbo Assembler version 5.0.

The programs listed in Table 5-7 are required for testing.

Table 5-7. Software Required for Testing

Program	Description
SWB Tool	The software write block tool to be tested.
TALLY13	The interrupt 0x13 monitor program. The monitor program blocks all interrupt 0x13 command functions, counts the number of times each function is requested for each drive, and provides an interface for retrieving the count of the number of times each command function was requested for each drive.
TEST-HDL	The test harness issues (requests) all interrupt 0x13 command functions for a specified command category , queries the monitor program to determine if the function was blocked or allowed and then logs the results to a file.
T-OFF	Deactivate TALLY13.

5.4 Run Protocol Selection

Most test cases follow the same test procedures. However, some test cases require a special procedure.

Set up a selection of hard drives for use in testing as follows:

1. Select a hard drive.
2. Use the FS-TST diskwipe program to initialize the drive.
3. Create and format partitions on the drive (optional step).
4. Compute a reference SHA1 hash of the drive.

The general procedure for executing a test case is as follows:

1. Select a test case to execute.
2. Install the number of hard drives called for by the test case.
3. Boot the test computer into DOS.
4. Follow the run protocol for the selected test case.

5. Save test case results to an archive location.

The **run protocol** specifies the actual procedures to follow for the test case. Some test cases require different setup procedures and methods to measure results. The values for test parameters such as **return type**, **command category**, **N drives**, and **protection pattern** can be found in *Software Write Block Tool Specification & Test Plan Version 3.0*. The following protocols are defined:

- Typical
 1. Execute the interrupt 0x13 monitor (TALLY13).
 2. Execute the SWB tool under test with the specified **return type**.
 3. Execute TEST-HDL for the specified **command category**.
- Uninstall
 1. Execute the interrupt 0x13 monitor (TALLY13).
 2. Execute the SWB tool under test with the specified **return type**.
 3. Execute TEST-HDL for the **write command category**.
 4. Execute T-OFF to deactivate TALLY13.
 5. Uninstall the SWB tool.
 6. Execute TEST-HDL for each **command category**.
- Boot
 1. Install the SWB tool. (For DOS systems, include the tool and monitor in the AUTOEXEC.BAT file.)
 2. Boot the system.
 3. Execute TEST-HDL for the **write command category**.
 4. Shut down the system.

The **typical** protocol applies to cases 01-36, the **boot** protocol applies to test cases 37 and 38, and the **uninstall** protocol applies to cases 39 and 40.

6.0 Interpretation of Test Results

The main item of interest when interpreting the test results is the tool's conformance to the test assertions. This section lists each test assertion and identifies the information in the log files relevant to conformance with the assertion. Conformance of each assertion tested by a given test case is evaluated by examination of the Commands Executed and the Log File Highlights boxes of the test report summary.

6.1 Test Assertion Verification

This section describes where to find the information needed to verify each test assertion in the test case report.

SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.

If the Install HDL Log contains the text **Write Lock successfully installed**, the test case conforms to the test assertion.

SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.

HDL always issued the message **N Hard-Disks reported by Int_13h** to indicate that **N** drives were accessible by the interface. If **N** is the same as the number of drives specified on the TEST-HDL command line in the Commands Executed box, the test case is in conformance with the test assertion.

SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.

HDL always issued either the message **Hard-Disk N Locked!** or the message **Hard-Disk N Not Locked!** to indicate the protection status of each covered drive. If drive **N** is listed on the command line to HDL and the Install HDL log reports drive **N** as locked, then the test case is in conformance with the test assertion.

SWB-AM-10. If the tool is configured to return *success* on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.

HDL was configured to return *success* on blocked commands if an **S** flag was used on the HDL command line. The return value of blocked commands is *success* if in the Test Harness Log the value of the stat column is *0000* and the value of the Cry column is *Off*.

SWB-AM-11. If the tool is configured to return *fail* on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.

HDL was configured to return *fail* on blocked commands if no **S** flag was used on the HDL command line. The return value of blocked commands is *fails* if in the Test Harness Log the value of the stat column is *0300* and the value of the Cry column is *On*.

SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-02. If a subset of all covered drives is specified for protection, then commands from the configuration category shall be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-03. If a subset of all covered drives is specified for protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-06. If a subset of all covered drives is specified for protection, then commands from the information category shall not be blocked for drives in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.

The protected drives are identified on the HDL command line in the Commands Executed box. The unprotected drives are the drives not listed on the HDL command line. The Test Harness Log lists each command sent to each drive. If the action column contains *Allowed* for each command sent to an unprotected drive, the test case conforms to the assertion.

SWB-AO-08. If the tool is active during the operating system boot and shutdown processes then no changes are made to any protected drives.

The protected drives are identified on the HDL command line in the Commands Executed box. The Test Harness Log lists each command sent to each drive. If the action column contains *Blocked* for each command sent to a protected drive, the test case conforms to the assertion.

SWB-AO-09. If the tool is active and the tool is then deactivated then no commands to any drive shall be blocked.

This assertion requires a special test protocol. First the tool is activated and some write commands are blocked. Then the tool is deactivated and each command is sent. There are two log files for the tool and two log files for the test harness. The tool is allowed to refuse to deactivate. The tool refuses to deactivate if it has been configured to return *success* for blocked commands because deactivation might allow a buffered write to take place. If the tool is in

compliance with the assertion and is successfully deactivated, then all commands are allowed to all drives. If the tool does not deactivate, then no change occurs to the protection status of the drives.

A warning message appears in the second instance of the Test Harness Log file. This is normal for test cases SWB-39 and SWB-40. The warning message notes that write commands were allowed to unprotected drives while the tool was active during the first part of the test, before the tool was deactivated.

SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.

This optional feature is not supported by HDL.

6.2 Test Results Summary 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.

Table 6-1. Description of Test Report Summary

Heading	Description
First Line	Test case ID, Name and version of software tested.
Case Summary:	Test case summary from <i>Software Write Block Tool Specification & Test Plan Version 3.0</i> .
Assertions tested	The test assertions tested by the test case from <i>Software Write Block Tool Specification & Test Plan Version 3.0</i> .
Tester Name:	Name or initials of person executing test procedure.
Test Date	Time and date that the test was started.
Test PC:	Name of computer where the tool under test was executed.
Test Software:	The name and version of the test software.
Hard Drives Used:	Description of the hard drives used in the test.
Commands Executed:	Documentation of each command executed during the test. The protected drives are identified on the HDL command line. HDL identifies the drives starting at 0.
Log File Highlights:	Selected entries from the test case log files. There are three log files that may appear. The log file created for TALLY13 is labeled <i>Monitor Execution</i> . The log file created for HDL is labeled <i>Install HDL Log</i> . The log file created by TEST-HDL is labeled <i>Test Harness Log</i> . For test cases SWB-39 and SWB-40, there are two separate logs for HDL and also for TEST-HDL since these cases require execution of HDL twice. The Monitor Execution log file records the program version and the

Heading	Description
	<p>date that the TALLY13 program was executed.</p> <p>The HDL log file is obtained by output redirection of the execution of HDL. The log file contains the version of HDL used (V0.7), the number of drives identified and the protection status of each drive.</p> <p>The Test Harness Log is the record of commands sent to HDL and the action taken by HDL either to block or to allow each command sent. The format of the file is as follows:</p> <ol style="list-style-type: none"> 1. Command line. The command line used to execute TEST-HDL. This line begins with the string CMD. 2. Case number. 3. Interrupt 0x13 Functions. The category of interrupt 0x13 functions tested by this case. 4. Date. 5. Version. Version information about TEST-HDL and components. The creation date, creation time, and version of each source code component are listed. The compile time and date for the executable program are listed. 6. Operator. The operator running the test. 7. Host. The host computer running the test. 8. Drives. The number of drives and the external drive label for each drive. <p>The next two items are repeated for each installed drive.</p> <ol style="list-style-type: none"> 9. List of commands sent. Each line of the list has 9 columns: sequence number, test case number, command code in hex (Cmd), drive number in hex (Drv), action taken by HDL (either <i>Blocked</i> or <i>Allowed</i>), return status (0000 means success, 0300 means fail), carry flag value (labeled <i>Cry</i> with values of either <i>On</i> indicating failure status, or <i>Off</i> indicating success status), count of the number of times the command was allowed by HDL, and the command name (or undefined for commands in the miscellaneous category). 10. Summary of commands for the drive. The message indicates the number of commands blocked out of the number of commands sent. 11. The last item is a summary of all the commands sent to all drives, the number of commands sent, the number blocked, and the number allowed (not blocked).
Results:	Expected and actual results for each assertion tested.
Analysis:	Whether or not the expected results were achieved.

7.0 Test Results Summaries

Case SWB-01 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-01 Install all drives, configure return code to failure, protect all drives, execute write commands.
Assertions Tested:	<p>SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:22:09 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 01234</p> <p>test-hdl SWB-01 McCloud SN w 6F 8A 90 1F 2b</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:22:02) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Hard-Disk 4 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-01 McCloud SN w 6F 8A 90 1F 2b Case: SWB-01 Command set: Write Date: Thu Oct 02 15:22:09 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2b Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-01 <03> 80 Blocked 0300 On 0 WriteSectors 1 SWB-01 <0B> 80 Blocked 0300 On 0 WriteLong 2 SWB-01 <43> 80 Blocked 0300 On 0 ExtWrite Results for SWB-01 category w on drive 80 All commands blocked (3 of 3) 0 SWB-01 <03> 81 Blocked 0300 On 0 WriteSectors 1 SWB-01 <0B> 81 Blocked 0300 On 0 WriteLong </pre>

Case SWB-01 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	2 SWB-01 <43> 81 Blocked 0300 On	0	ExtWrite
	Results for SWB-01 category w on drive 81 All commands blocked (3 of 3)		
	0 SWB-01 <03> 82 Blocked 0300 On	0	WriteSectors
	1 SWB-01 <0B> 82 Blocked 0300 On	0	WriteLong
	2 SWB-01 <43> 82 Blocked 0300 On	0	ExtWrite
	Results for SWB-01 category w on drive 82 All commands blocked (3 of 3)		
	0 SWB-01 <03> 83 Blocked 0300 On	0	WriteSectors
	1 SWB-01 <0B> 83 Blocked 0300 On	0	WriteLong
	2 SWB-01 <43> 83 Blocked 0300 On	0	ExtWrite
	Results for SWB-01 category w on drive 83 All commands blocked (3 of 3)		
	0 SWB-01 <03> 84 Blocked 0300 On	0	WriteSectors
	1 SWB-01 <0B> 84 Blocked 0300 On	0	WriteLong
	2 SWB-01 <43> 84 Blocked 0300 On	0	ExtWrite
	Results for SWB-01 category w on drive 84 All commands blocked (3 of 3)		
	Summary: 15 sent, 15 blocked, 0 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AM-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AM-01	All cmds to drive 83 blocked	All cmds to drive 83 blocked
	AM-01	All cmds to drive 84 blocked	All cmds to drive 84 blocked
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-11	15 Commands return fail	15 Commands return fail
Analysis:	SWB-01 Expected results achieved		

Case SWB-02 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-02 Install two drives, configure return code to success, protect all drives, execute write commands.
Assertions Tested:	SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.
Tester Name:	SN
Test Date:	Thu Oct 02 14:45:16 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S01 test-hdl SWB-02 HecRamsey SN w 64 E4 Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:45:09) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED

Case SWB-02 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 2 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-02 HecRamsey SN w 64 E4 Case: SWB-02 Command set: Write Date: Thu Oct 02 14:45:16 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 2, Drives: 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-02 <03> 80 Blocked 0000 Off 0 WriteSectors 1 SWB-02 <0B> 80 Blocked 0000 Off 0 WriteLong 2 SWB-02 <43> 80 Blocked 0000 Off 0 ExtWrite Results for SWB-02 category w on drive 80 All commands blocked (3 of 3) 0 SWB-02 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-02 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-02 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-02 category w on drive 81 All commands blocked (3 of 3) Summary: 6 sent, 6 blocked, 0 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AM-07	Tool active message	Tool active message
	AM-08	2 drives identified	2 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-10	6 Commands return success	6 Commands return success
Analysis:	SWB-02 Expected results achieved		

Case SWB-03 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-03 Install one drive, configure return code to failure, protect all drives, execute configuration commands.
Assertions Tested:	SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.
Tester Name:	SN
Test Date:	Thu Oct 02 14:32:11 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 0 test-hdl SWB-03 HecRamsey SN x E4 Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:32:04) Going . . . TSR

Case SWB-03 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-03 HecRamsey SN x E4 Case: SWB-03 Command set: Configure Date: Thu Oct 02 14:32:11 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-03 <05> 80 Blocked 0300 On 0 FormatTrack 1 SWB-03 <06> 80 Blocked 0300 On 0 FormatBadSectors 2 SWB-03 <07> 80 Blocked 0300 On 0 FormatCyl 3 SWB-03 <09> 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-03 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-03 <0F> 80 Blocked 0300 On 0 DiagnosticESDI 6 SWB-03 <12> 80 Blocked 0300 On 0 DiagnosticRAM 7 SWB-03 <13> 80 Blocked 0300 On 0 DiagnosticDrive 8 SWB-03 <14> 80 Blocked 0300 On 0 DiagnosticCTL Results for SWB-03 category x on drive 80 Not all commands blocked (7 of 9) Summary: 9 sent, 7 blocked, 2 not blocked			
	Results:			
	Assertion	Expected Results	Actual Results	
	AM-02	All cmds to drive 80 blocked	Not all cmds to drive 80 blocked	
	AM-07	Tool active message	Tool active message	
	AM-08	1 drives identified	1 drives identified	
	AM-09	Drive 80 is protected	Drive 80 is protected	
	AM-11	7 Commands return fail	7 Commands return fail	
	Analysis:	SWB-03 Expected results not achieved for assertions: AM-02		

Case SWB-04 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-04 Install all drives, configure return code to success, protect all drives, execute configuration commands.
Assertions Tested:	<p>SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:50:21 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>

Case SWB-04 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S01234 test-hdl SWB-04 McCloud SN x 6F 8A 90 1F 2B Shutdown Test PC
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:50:14) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Hard-Disk 4 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-04 McCloud SN x 6F 8A 90 1F 2B Case: SWB-04 Command set: Configure Date: Thu Oct 02 15:50:21 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-04 <05> 80 Blocked 0000 Off 0 FormatTrack 1 SWB-04 <06> 80 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 <07> 80 Blocked 0000 Off 0 FormatCyl 3 SWB-04 <09> 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 <0F> 80 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 <12> 80 Blocked 0000 Off 0 DiagnosticRAM 7 SWB-04 <13> 80 Blocked 0000 Off 0 DiagnosticDrive 8 SWB-04 <14> 80 Blocked 0000 Off 0 DiagnosticCTL Results for SWB-04 category x on drive 80 Not all commands blocked (7 of 9) 0 SWB-04 <05> 81 Blocked 0000 Off 0 FormatTrack 1 SWB-04 <06> 81 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 <07> 81 Blocked 0000 Off 0 FormatCyl 3 SWB-04 <09> 81 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 <0F> 81 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 <12> 81 Blocked 0000 Off 0 DiagnosticRAM 7 SWB-04 <13> 81 Blocked 0000 Off 0 DiagnosticDrive 8 SWB-04 <14> 81 Blocked 0000 Off 0 DiagnosticCTL Results for SWB-04 category x on drive 81 Not all commands blocked (7 of 9) 0 SWB-04 <05> 82 Blocked 0000 Off 0 FormatTrack 1 SWB-04 <06> 82 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 <07> 82 Blocked 0000 Off 0 FormatCyl 3 SWB-04 <09> 82 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 <0E> 82 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 <0F> 82 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 <12> 82 Blocked 0000 Off 0 DiagnosticRAM 7 SWB-04 <13> 82 Blocked 0000 Off 0 DiagnosticDrive 8 SWB-04 <14> 82 Blocked 0000 Off 0 DiagnosticCTL Results for SWB-04 category x on drive 82 Not all commands blocked (7 of 9) 0 SWB-04 <05> 83 Blocked 0000 Off 0 FormatTrack 1 SWB-04 <06> 83 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 <07> 83 Blocked 0000 Off 0 FormatCyl </pre>

Case SWB-04 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	3 SWB-04 <09> 83 Allowed 0000 Off 1 InitDriveParms		
	4 SWB-04 <0E> 83 Allowed 0000 Off 1 DiagnosticESDI		
	5 SWB-04 <0F> 83 Blocked 0000 Off 0 DiagnosticESDI		
	6 SWB-04 <12> 83 Blocked 0000 Off 0 DiagnosticRAM		
	7 SWB-04 <13> 83 Blocked 0000 Off 0 DiagnosticDrive		
	8 SWB-04 <14> 83 Blocked 0000 Off 0 DiagnosticCTL		
	Results for SWB-04 category x on drive 83 Not all commands blocked (7 of 9)		
	0 SWB-04 <05> 84 Blocked 0000 Off 0 FormatTrack		
	1 SWB-04 <06> 84 Blocked 0000 Off 0 FormatBadSectors		
	2 SWB-04 <07> 84 Blocked 0000 Off 0 FormatCyl		
	3 SWB-04 <09> 84 Allowed 0000 Off 1 InitDriveParms		
	4 SWB-04 <0E> 84 Allowed 0000 Off 1 DiagnosticESDI		
	5 SWB-04 <0F> 84 Blocked 0000 Off 0 DiagnosticESDI		
	6 SWB-04 <12> 84 Blocked 0000 Off 0 DiagnosticRAM		
	7 SWB-04 <13> 84 Blocked 0000 Off 0 DiagnosticDrive		
8 SWB-04 <14> 84 Blocked 0000 Off 0 DiagnosticCTL			
Results for SWB-04 category x on drive 84 Not all commands blocked (7 of 9)			
Summary: 45 sent, 35 blocked, 10 not blocked			
Results:	Assertion	Expected Results	Actual Results
	AM-02	All cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AM-02	All cmds to drive 81 blocked	Not all cmds to drive 81 blocked
	AM-02	All cmds to drive 82 blocked	Not all cmds to drive 82 blocked
	AM-02	All cmds to drive 83 blocked	Not all cmds to drive 83 blocked
	AM-02	All cmds to drive 84 blocked	Not all cmds to drive 84 blocked
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-10	35 Commands return success	35 Commands return success
Analysis:	SWB-04 Expected results not achieved for assertions: AM-02		

Case SWB-05 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-05 Install two drives, configure return code to failure, protect all drives, execute miscellaneous commands.
Assertions Tested:	SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.
Tester Name:	SN
Test Date:	Thu Oct 02 14:48:12 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 01 test-hdl SWB-05 HecRamsey SN m 64 E4 Shutdown Test PC

Case SWB-05 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																											
Log File Highlights:	<pre>***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:48:04) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 2 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-05 HecRamsey SN m 64 E4 Case: SWB-05 Command set: Misc Date: Thu Oct 02 14:48:12 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 2, Drives: 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-05 <16> 80 Blocked 0300 On 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-05 <FE> 80 Blocked 0300 On 0 Undefined 227 SWB-05 <FF> 80 Blocked 0300 On 0 Undefined Results for SWB-05 category m on drive 80 All commands blocked (228 of 228) 0 SWB-05 <16> 81 Blocked 0300 On 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-05 <FE> 81 Blocked 0300 On 0 Undefined 227 SWB-05 <FF> 81 Blocked 0300 On 0 Undefined Results for SWB-05 category m on drive 81 All commands blocked (228 of 228) Summary: 456 sent, 456 blocked, 0 not blocked</pre>																										
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-03</td><td>All cmds to drive 80 blocked</td><td>All cmds to drive 80 blocked</td></tr><tr><td>AM-03</td><td>All cmds to drive 81 blocked</td><td>All cmds to drive 81 blocked</td></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>2 drives identified</td><td>2 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is protected</td><td>Drive 80 is protected</td></tr><tr><td>AM-09</td><td>Drive 81 is protected</td><td>Drive 81 is protected</td></tr><tr><td>AM-11</td><td>456 Commands return fail</td><td>456 Commands return fail</td></tr></table>			Assertion	Expected Results	Actual Results	AM-03	All cmds to drive 80 blocked	All cmds to drive 80 blocked	AM-03	All cmds to drive 81 blocked	All cmds to drive 81 blocked	AM-07	Tool active message	Tool active message	AM-08	2 drives identified	2 drives identified	AM-09	Drive 80 is protected	Drive 80 is protected	AM-09	Drive 81 is protected	Drive 81 is protected	AM-11	456 Commands return fail	456 Commands return fail
Assertion	Expected Results	Actual Results																									
AM-03	All cmds to drive 80 blocked	All cmds to drive 80 blocked																									
AM-03	All cmds to drive 81 blocked	All cmds to drive 81 blocked																									
AM-07	Tool active message	Tool active message																									
AM-08	2 drives identified	2 drives identified																									
AM-09	Drive 80 is protected	Drive 80 is protected																									
AM-09	Drive 81 is protected	Drive 81 is protected																									
AM-11	456 Commands return fail	456 Commands return fail																									
Analysis:	SWB-05 Expected results achieved																										

Case SWB-06 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-06 Install one drive, configure return code to success, protect all drives, execute miscellaneous commands.
Assertions	SWB-AM-03. If a drive is protected and a command from the miscellaneous

Case SWB-06 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Tested:	category is issued for the protected drive then the tool shall block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.		
Tester Name:	SN		
Test Date:	Thu Oct 02 14:34:53 2003		
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives Used:	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S0 test-hdl SWB-06 HecRamsey SN m E4 Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:34:46) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 HecRamsey SN m E4 Case: SWB-06 Command set: Misc Date: Thu Oct 02 14:34:53 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-06 <16> 80 Blocked 0000 Off 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-06 <FE> 80 Blocked 0000 Off 0 Undefined 227 SWB-06 <FF> 80 Blocked 0000 Off 0 Undefined Results for SWB-06 category m on drive 80 All commands blocked (228 of 228) Summary: 228 sent, 228 blocked, 0 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-03	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-10	228 Commands return success	228 Commands return success

Case SWB-06 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Analysis:	SWB-06 Expected results achieved

Case SWB-07 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-07 Install all drives, configure return code to failure, protect all drives, execute read commands.
Assertions Tested:	<p>SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:28:11 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 01234</p> <p>test-hdl SWB-07 McCloud SN r 6F 8A 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:28:03) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Hard-Disk 4 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-07 McCloud SN r 6F 8A 90 1F 2B Case: SWB-07 Command set: Read Date: Thu Oct 02 15:28:11 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-07 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 80 No commands blocked (0 of 3) 0 SWB-07 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 81 Allowed 0000 Off 1 ExtRead </pre>

Case SWB-07 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Results for SWB-07 category r on drive 81 No commands blocked (0 of 3) 0 SWB-07 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 82 No commands blocked (0 of 3) 0 SWB-07 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 83 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 83 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 83 No commands blocked (0 of 3) 0 SWB-07 <02> 84 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 84 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 84 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 84 No commands blocked (0 of 3) Summary: 15 sent, 0 blocked, 15 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AM-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AM-04	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AM-04	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AM-04	No cmds to drive 84 blocked	No cmds to drive 84 blocked
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-11	0 Commands return fail	0 Commands return fail
Analysis:	SWB-07 Expected results achieved		

Case SWB-08 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-08 Install two drives, configure return code to success, protect all drives, execute read commands.
Assertions Tested:	<p>SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 14:50:56 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S01</p> <p>test-hdl SWB-08 HecRamsey SN r 64 E4</p> <p>Shutdown Test PC</p>
Log File Highlights:	<p>***** Monitor Execution *****</p> <p>Monitor BIOS interrupt 13h (disk service)</p> <p>tally13 compiled on 07/29/03 at 07:33:17</p> <p>@(#) Version 1.1 Created 07/29/03 at 07:28:05</p> <p>Now (10/02/03 at 14:50:50) Going . . . TSR</p> <p>***** Install HDL Log *****</p> <p>HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001</p> <p>---- Royal Canadian Mounted Police ----</p> <p>UNAUTHORIZED USE / DISTRIBUTION PROHIBITED</p> <p>Licensee: U.S. DoC - NIST - Computer Forensic Tool Test</p>

Case SWB-08 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																											
	<pre>2 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-08 HecRamsey SN r 64 E4 Case: SWB-08 Command set: Read Date: Thu Oct 02 14:50:56 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 2, Drives: 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-08 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-08 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-08 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-08 category r on drive 80 No commands blocked (0 of 3) 0 SWB-08 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-08 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-08 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-08 category r on drive 81 No commands blocked (0 of 3) Summary: 6 sent, 0 blocked, 6 not blocked</pre>																										
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-04</td><td>No cmds to drive 80 blocked</td><td>No cmds to drive 80 blocked</td></tr><tr><td>AM-04</td><td>No cmds to drive 81 blocked</td><td>No cmds to drive 81 blocked</td></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>2 drives identified</td><td>2 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is protected</td><td>Drive 80 is protected</td></tr><tr><td>AM-09</td><td>Drive 81 is protected</td><td>Drive 81 is protected</td></tr><tr><td>AM-10</td><td>0 Commands return success</td><td>0 Commands return success</td></tr></table>	Assertion	Expected Results	Actual Results	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked	AM-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked	AM-07	Tool active message	Tool active message	AM-08	2 drives identified	2 drives identified	AM-09	Drive 80 is protected	Drive 80 is protected	AM-09	Drive 81 is protected	Drive 81 is protected	AM-10	0 Commands return success	0 Commands return success		
Assertion	Expected Results	Actual Results																									
AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked																									
AM-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked																									
AM-07	Tool active message	Tool active message																									
AM-08	2 drives identified	2 drives identified																									
AM-09	Drive 80 is protected	Drive 80 is protected																									
AM-09	Drive 81 is protected	Drive 81 is protected																									
AM-10	0 Commands return success	0 Commands return success																									
Analysis:	SWB-08 Expected results achieved																										

Case SWB-09 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-09 Install one drive, configure return code to failure, protect all drives, execute information commands.
Assertions Tested:	<p>SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 14:38:32 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	<pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 0 test-hdl SWB-09 HecRamsey SN i E4 Shutdown Test PC </pre>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:38:25) Going . . . TSR ***** Install HDL Log ***** </pre>

Case SWB-09 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-09 HecRamsey SN i E4 Case: SWB-09 Command set: Information Date: Thu Oct 02 14:38:32 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-09 <01> 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-09 <04> 80 Allowed 0000 Off 1 VerifySectors 2 SWB-09 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-09 <10> 80 Allowed 0000 Off 1 TestDriveReady 4 SWB-09 <15> 80 Blocked 0300 On 0 ReadDriveType 5 SWB-09 <41> 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-09 <44> 80 Allowed 0000 Off 1 VerifySectors 7 SWB-09 <48> 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-09 category i on drive 80 Not all commands blocked (1 of 8) Summary: 8 sent, 1 blocked, 7 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-06	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-11	1 Commands return fail	1 Commands return fail
Analysis:	SWB-09 Expected results not achieved for assertions: AM-06		

Case SWB-10 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-10 Install all drives, configure return code to success, protect all drives, execute information commands.
Assertions Tested:	SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.
Tester Name:	SN
Test Date:	Thu Oct 02 15:31:24 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13

Case SWB-10 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
	<pre> hdl7 S01234 test-hdl SWB-10 McCloud SN i 6F 8A 90 1F 2B Shutdown Test PC </pre>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:31:16) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Hard-Disk 4 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-10 McCloud SN i 6F 8A 90 1F 2B Case: SWB-10 Command set: Information Date: Thu Oct 02 15:31:24 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-10 <01> 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-10 <04> 80 Allowed 0000 Off 1 VerifySectors 2 SWB-10 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 80 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 80 Blocked 0000 Off 0 ReadDriveType 5 SWB-10 <41> 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 80 Allowed 0000 Off 1 VerifySectors 7 SWB-10 <48> 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-10 category i on drive 80 Not all commands blocked (1 of 8) 0 SWB-10 <01> 81 Allowed 0000 Off 1 GetLastStatus 1 SWB-10 <04> 81 Allowed 0000 Off 1 VerifySectors 2 SWB-10 <08> 81 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 81 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 81 Blocked 0000 Off 0 ReadDriveType 5 SWB-10 <41> 81 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 81 Allowed 0000 Off 1 VerifySectors 7 SWB-10 <48> 81 Allowed 0000 Off 1 GetDriveParms Results for SWB-10 category i on drive 81 Not all commands blocked (1 of 8) 0 SWB-10 <01> 82 Allowed 0000 Off 1 GetLastStatus 1 SWB-10 <04> 82 Allowed 0000 Off 1 VerifySectors 2 SWB-10 <08> 82 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 82 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 82 Blocked 0000 Off 0 ReadDriveType 5 SWB-10 <41> 82 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 82 Allowed 0000 Off 1 VerifySectors 7 SWB-10 <48> 82 Allowed 0000 Off 1 GetDriveParms Results for SWB-10 category i on drive 82 Not all commands blocked (1 of 8) 0 SWB-10 <01> 83 Allowed 0000 Off 1 GetLastStatus 1 SWB-10 <04> 83 Allowed 0000 Off 1 VerifySectors 2 SWB-10 <08> 83 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 83 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 83 Blocked 0000 Off 0 ReadDriveType 5 SWB-10 <41> 83 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 83 Allowed 0000 Off 1 VerifySectors 7 SWB-10 <48> 83 Allowed 0000 Off 1 GetDriveParms </pre>

Case SWB-10 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Results for SWB-10 category i on drive 83 Not all commands blocked (1 of 8) 0 SWB-10 <01> 84 Allowed 0000 Off 1 GetLastStatus 1 SWB-10 <04> 84 Allowed 0000 Off 1 VerifySectors 2 SWB-10 <08> 84 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 84 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 84 Blocked 0000 Off 0 ReadDriveType 5 SWB-10 <41> 84 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 84 Allowed 0000 Off 1 VerifySectors 7 SWB-10 <48> 84 Allowed 0000 Off 1 GetDriveParms Results for SWB-10 category i on drive 84 Not all commands blocked (1 of 8) Summary: 40 sent, 5 blocked, 35 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-06	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AM-06	No cmds to drive 81 blocked	Not all cmds to drive 81 blocked
	AM-06	No cmds to drive 82 blocked	Not all cmds to drive 82 blocked
	AM-06	No cmds to drive 83 blocked	Not all cmds to drive 83 blocked
	AM-06	No cmds to drive 84 blocked	Not all cmds to drive 84 blocked
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
AM-10	5 Commands return success	5 Commands return success	
Analysis:	SWB-10 Expected results not achieved for assertions: AM-06		

Case SWB-11 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-11 Install two drives, configure return code to failure, protect all drives, execute control commands.
Assertions Tested:	SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.
Tester Name:	SN
Test Date:	Thu Oct 02 14:53:27 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 01 test-hdl SWB-11 HecRamsey SN c 64 E4 Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:53:19) Going . . . TSR ***** Install HDL Log ***** HDL -- Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001

Case SWB-11 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED		
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 2 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Write Block successfully installed.		
	***** Test Harness Log *****		
	CMD: A:\TEST-HDL.EXE SWB-11 HecRamsey SN c 64 E4		
	Case: SWB-11		
	Command set: Control		
	Date: Thu Oct 02 14:53:27 2003		
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		
	Operator: SN		
	Host: HecRamsey		
Number of drives 2, Drives: 64 E4			
Case Cmd Drv Action Stat Cry Count Cmd Name			
0 SWB-11 <00> 80 Allowed 0000 Off 1 Reset			
1 SWB-11 <0C> 80 Allowed 0000 Off 1 SeekDrive			
2 SWB-11 <0D> 80 Allowed 0000 Off 1 AltReset			
3 SWB-11 <11> 80 Allowed 0000 Off 1 Recalibrate			
4 SWB-11 <47> 80 Blocked 0300 On 0 ExtendedSeek			
Results for SWB-11 category c on drive 80 Not all commands blocked (1 of 5)			
0 SWB-11 <00> 81 Allowed 0000 Off 1 Reset			
1 SWB-11 <0C> 81 Allowed 0000 Off 1 SeekDrive			
2 SWB-11 <0D> 81 Allowed 0000 Off 1 AltReset			
3 SWB-11 <11> 81 Allowed 0000 Off 1 Recalibrate			
4 SWB-11 <47> 81 Blocked 0300 On 0 ExtendedSeek			
Results for SWB-11 category c on drive 81 Not all commands blocked (1 of 5)			
Summary: 10 sent, 2 blocked, 8 not blocked			
Results:	Assertion	Expected Results	Actual Results
	AM-05	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AM-05	No cmds to drive 81 blocked	Not all cmds to drive 81 blocked
	AM-07	Tool active message	Tool active message
	AM-08	2 drives identified	2 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-11	2 Commands return fail	2 Commands return fail
Analysis:	SWB-11 Expected results not achieved for assertions: AM-05		

Case SWB-12 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-12 Install one drive, configure return code to success, protect all drives, execute control commands.
Assertions Tested:	<p>SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 14:41:56 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors

Case SWB-12 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Used:			
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S0 test-hdl SWB-12 HecRamsey SN c E4 Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 14:41:49) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-12 HecRamsey SN c E4 Case: SWB-12 Command set: Control Date: Thu Oct 02 14:41:56 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-12 <00> 80 Allowed 0000 Off 1 Reset 1 SWB-12 <0C> 80 Allowed 0000 Off 1 SeekDrive 2 SWB-12 <0D> 80 Allowed 0000 Off 1 AltReset 3 SWB-12 <11> 80 Allowed 0000 Off 1 Recalibrate 4 SWB-12 <47> 80 Blocked 0000 Off 0 ExtendedSeek Results for SWB-12 category c on drive 80 Not all commands blocked (1 of 5) Summary: 5 sent, 1 blocked, 4 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-05	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-10	1 Commands return success	1 Commands return success
Analysis:	SWB-12 Expected results not achieved for assertions: AM-05		

Case SWB-13 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-13 Install all drives, configure return code to failure, protect with pattern odd, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.

Case SWB-13 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Tester Name:	SN		
Test Date:	Thu Oct 02 15:34:25 2003		
Test PC:	McCloud		
Test Software:	SWBT 1.0		
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 13 test-hdl SWB-13 McCloud SN w 6F 8A 90 1F 2B Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:34:18) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Locked! Hard-Disk 4 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-13 McCloud SN w 6F 8A 90 1F 2B Case: SWB-13 Command set: Write Date: Thu Oct 02 15:34:25 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-13 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-13 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-13 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-13 category w on drive 80 No commands blocked (0 of 3) 0 SWB-13 <03> 81 Blocked 0300 On 0 WriteSectors 1 SWB-13 <0B> 81 Blocked 0300 On 0 WriteLong 2 SWB-13 <43> 81 Blocked 0300 On 0 ExtWrite Results for SWB-13 category w on drive 81 All commands blocked (3 of 3) 0 SWB-13 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-13 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-13 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-13 category w on drive 82 No commands blocked (0 of 3) 0 SWB-13 <03> 83 Blocked 0300 On 0 WriteSectors 1 SWB-13 <0B> 83 Blocked 0300 On 0 WriteLong 2 SWB-13 <43> 83 Blocked 0300 On 0 ExtWrite Results for SWB-13 category w on drive 83 All commands blocked (3 of 3) 0 SWB-13 <03> 84 Allowed 0000 Off 1 WriteSectors 1 SWB-13 <0B> 84 Allowed 0000 Off 1 WriteLong 2 SWB-13 <43> 84 Allowed 0000 Off 1 ExtWrite Results for SWB-13 category w on drive 84 No commands blocked (0 of 3) Summary: 15 sent, 6 blocked, 9 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified

Case SWB-13 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is unprotected	Drive 84 is unprotected
	AM-11	6 Commands return fail	6 Commands return fail
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-01	All cmds to drive 83 blocked	All cmds to drive 83 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Analysis:	SWB-13 Expected results achieved		

Case SWB-14 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-14 Install all drives, configure return code to success, protect with pattern low, execute write commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:37:16 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S01</p> <p>test-hdl SWB-14 McCloud SN w 6F 8A 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<p>***** Monitor Execution *****</p> <p>Monitor BIOS interrupt 13h (disk service)</p> <p>tally13 compiled on 07/29/03 at 07:33:17</p> <p>@(#) Version 1.1 Created 07/29/03 at 07:28:05</p> <p>Now (10/02/03 at 15:37:09) Going . . . TSR</p> <p>***** Install HDL Log *****</p> <p>HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001</p> <p>---- Royal Canadian Mounted Police ----</p> <p>UNAUTHORIZED USE / DISTRIBUTION PROHIBITED</p> <p>Licensee: U.S. DoC - NIST - Computer Forensic Tool Test</p> <p>5 Hard-Disks reported by Int_13h</p> <p>Hard-Disk 0 Locked!</p> <p>Hard-Disk 1 Locked!</p> <p>Hard-Disk 2 Not Locked!</p> <p>Hard-Disk 3 Not Locked!</p> <p>Hard-Disk 4 Not Locked!</p> <p>Write Block successfully installed.</p> <p>***** Test Harness Log *****</p> <p>CMD: A:\TEST-HDL.EXE SWB-14 McCloud SN w 6F 8A 90 1F 2B</p> <p>Case: SWB-14</p> <p>Command set: Write</p> <p>Date: Thu Oct 02 15:37:16 2003</p>

Case SWB-14 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-14 <03> 80 Blocked 0000 Off 0 WriteSectors 1 SWB-14 <0B> 80 Blocked 0000 Off 0 WriteLong 2 SWB-14 <43> 80 Blocked 0000 Off 0 ExtWrite Results for SWB-14 category w on drive 80 All commands blocked (3 of 3) 0 SWB-14 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-14 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-14 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-14 category w on drive 81 All commands blocked (3 of 3) 0 SWB-14 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-14 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-14 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-14 category w on drive 82 No commands blocked (0 of 3) 0 SWB-14 <03> 83 Allowed 0000 Off 1 WriteSectors 1 SWB-14 <0B> 83 Allowed 0000 Off 1 WriteLong 2 SWB-14 <43> 83 Allowed 0000 Off 1 ExtWrite Results for SWB-14 category w on drive 83 No commands blocked (0 of 3) 0 SWB-14 <03> 84 Allowed 0000 Off 1 WriteSectors 1 SWB-14 <0B> 84 Allowed 0000 Off 1 WriteLong 2 SWB-14 <43> 84 Allowed 0000 Off 1 ExtWrite Results for SWB-14 category w on drive 84 No commands blocked (0 of 3) Summary: 15 sent, 6 blocked, 9 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-09	Drive 84 is unprotected	Drive 84 is unprotected
	AM-10	6 Commands return success	6 Commands return success
	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Analysis:	SWB-14 Expected results achieved		

Case SWB-15 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-15 Install all drives, configure return code to failure, protect with pattern first, execute configuration commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-02. If a subset of all covered drives is specified for protection, then commands from the configuration category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:40:37 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors

Case SWB-15 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 0 test-hdl SWB-15 McCloud SN x 6F 8A 90 1F 2B Shutdown Test PC
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:40:30) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Not Locked! Hard-Disk 4 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-15 McCloud SN x 6F 8A 90 1F 2B Case: SWB-15 Command set: Configure Date: Thu Oct 02 15:40:37 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-15 <05> 80 Blocked 0300 On 0 FormatTrack 1 SWB-15 <06> 80 Blocked 0300 On 0 FormatBadSectors 2 SWB-15 <07> 80 Blocked 0300 On 0 FormatCyl 3 SWB-15 <09> 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 80 Blocked 0300 On 0 DiagnosticESDI 6 SWB-15 <12> 80 Blocked 0300 On 0 DiagnosticRAM 7 SWB-15 <13> 80 Blocked 0300 On 0 DiagnosticDrive 8 SWB-15 <14> 80 Blocked 0300 On 0 DiagnosticCTL Results for SWB-15 category x on drive 80 Not all commands blocked (7 of 9) 0 SWB-15 <05> 81 Allowed 0000 Off 1 FormatTrack 1 SWB-15 <06> 81 Allowed 0000 Off 1 FormatBadSectors 2 SWB-15 <07> 81 Allowed 0000 Off 1 FormatCyl 3 SWB-15 <09> 81 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 81 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-15 <12> 81 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-15 <13> 81 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-15 <14> 81 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-15 category x on drive 81 No commands blocked (0 of 9) 0 SWB-15 <05> 82 Allowed 0000 Off 1 FormatTrack 1 SWB-15 <06> 82 Allowed 0000 Off 1 FormatBadSectors 2 SWB-15 <07> 82 Allowed 0000 Off 1 FormatCyl 3 SWB-15 <09> 82 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <0E> 82 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 82 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-15 <12> 82 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-15 <13> 82 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-15 <14> 82 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-15 category x on drive 82 No commands blocked (0 of 9) </pre>

Case SWB-15 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	0 SWB-15 <05> 83 Allowed 0000 Off 1 FormatTrack 1 SWB-15 <06> 83 Allowed 0000 Off 1 FormatBadSectors 2 SWB-15 <07> 83 Allowed 0000 Off 1 FormatCyl 3 SWB-15 <09> 83 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <0E> 83 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 83 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-15 <12> 83 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-15 <13> 83 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-15 <14> 83 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-15 category x on drive 83 No commands blocked (0 of 9) 0 SWB-15 <05> 84 Allowed 0000 Off 1 FormatTrack 1 SWB-15 <06> 84 Allowed 0000 Off 1 FormatBadSectors 2 SWB-15 <07> 84 Allowed 0000 Off 1 FormatCyl 3 SWB-15 <09> 84 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <0E> 84 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 84 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-15 <12> 84 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-15 <13> 84 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-15 <14> 84 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-15 category x on drive 84 No commands blocked (0 of 9) Summary: 45 sent, 7 blocked, 38 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-09	Drive 84 is unprotected	Drive 84 is unprotected
	AM-11	7 Commands return fail	7 Commands return fail
	AO-02	All cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Analysis:	SWB-15 Expected results not achieved for assertions: AO-02		

Case SWB-16 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-16 Install all drives, configure return code to success, protect with pattern mid, execute configuration commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-02. If a subset of all covered drives is specified for protection, then commands from the configuration category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:43:51 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]

Case SWB-16 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
executed:	tally13 hdl7 S2 test-hdl SWB-16 McCloud SN x 6F 8A 90 1F 2B Shutdown Test PC
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:43:44) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Hard-Disk 3 Not Locked! Hard-Disk 4 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-16 McCloud SN x 6F 8A 90 1F 2B Case: SWB-16 Command set: Configure Date: Thu Oct 02 15:43:51 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-16 <05> 80 Allowed 0000 Off 1 FormatTrack 1 SWB-16 <06> 80 Allowed 0000 Off 1 FormatBadSectors 2 SWB-16 <07> 80 Allowed 0000 Off 1 FormatCyl 3 SWB-16 <09> 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-16 <0F> 80 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-16 <12> 80 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-16 <13> 80 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-16 <14> 80 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-16 category x on drive 80 No commands blocked (0 of 9) 0 SWB-16 <05> 81 Allowed 0000 Off 1 FormatTrack 1 SWB-16 <06> 81 Allowed 0000 Off 1 FormatBadSectors 2 SWB-16 <07> 81 Allowed 0000 Off 1 FormatCyl 3 SWB-16 <09> 81 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-16 <0F> 81 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-16 <12> 81 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-16 <13> 81 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-16 <14> 81 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-16 category x on drive 81 No commands blocked (0 of 9) 0 SWB-16 <05> 82 Blocked 0000 Off 0 FormatTrack 1 SWB-16 <06> 82 Blocked 0000 Off 0 FormatBadSectors 2 SWB-16 <07> 82 Blocked 0000 Off 0 FormatCyl 3 SWB-16 <09> 82 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 <0E> 82 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-16 <0F> 82 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-16 <12> 82 Blocked 0000 Off 0 DiagnosticRAM 7 SWB-16 <13> 82 Blocked 0000 Off 0 DiagnosticDrive 8 SWB-16 <14> 82 Blocked 0000 Off 0 DiagnosticCTL Results for SWB-16 category x on drive 82 Not all commands blocked (7 of 9) 0 SWB-16 <05> 83 Allowed 0000 Off 1 FormatTrack 1 SWB-16 <06> 83 Allowed 0000 Off 1 FormatBadSectors 2 SWB-16 <07> 83 Allowed 0000 Off 1 FormatCyl 3 SWB-16 <09> 83 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 <0E> 83 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-16 <0F> 83 Allowed 0000 Off 1 DiagnosticESDI </pre>

Case SWB-16 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	6 SWB-16 <12> 83 Allowed 0000 Off 1 DiagnosticRAM			
	7 SWB-16 <13> 83 Allowed 0000 Off 1 DiagnosticDrive			
	8 SWB-16 <14> 83 Allowed 0000 Off 1 DiagnosticCTL			
	Results for SWB-16 category x on drive 83 No commands blocked (0 of 9)			
	0 SWB-16 <05> 84 Allowed 0000 Off 1 FormatTrack			
	1 SWB-16 <06> 84 Allowed 0000 Off 1 FormatBadSectors			
	2 SWB-16 <07> 84 Allowed 0000 Off 1 FormatCyl			
	3 SWB-16 <09> 84 Allowed 0000 Off 1 InitDriveParms			
	4 SWB-16 <0E> 84 Allowed 0000 Off 1 DiagnosticESDI			
	5 SWB-16 <0F> 84 Allowed 0000 Off 1 DiagnosticESDI			
	6 SWB-16 <12> 84 Allowed 0000 Off 1 DiagnosticRAM			
	7 SWB-16 <13> 84 Allowed 0000 Off 1 DiagnosticDrive			
	8 SWB-16 <14> 84 Allowed 0000 Off 1 DiagnosticCTL			
	Results for SWB-16 category x on drive 84 No commands blocked (0 of 9)			
	Summary: 45 sent, 7 blocked, 38 not blocked			
	Results:	Assertion	Expected Results	Actual Results
		AM-07	Tool active message	Tool active message
AM-08		5 drives identified	5 drives identified	
AM-09		Drive 80 is unprotected	Drive 80 is unprotected	
AM-09		Drive 81 is unprotected	Drive 81 is unprotected	
AM-09		Drive 82 is protected	Drive 82 is protected	
AM-09		Drive 83 is unprotected	Drive 83 is unprotected	
AM-09		Drive 84 is unprotected	Drive 84 is unprotected	
AM-10		7 Commands return success	7 Commands return success	
AO-02		All cmds to drive 82 blocked	Not all cmds to drive 82 blocked	
AO-07		No cmds to drive 80 blocked	No cmds to drive 80 blocked	
AO-07		No cmds to drive 81 blocked	No cmds to drive 81 blocked	
AO-07		No cmds to drive 83 blocked	No cmds to drive 83 blocked	
AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked		
Analysis:	SWB-16 Expected results not achieved for assertions: AO-02			

Case SWB-17 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-17 Install all drives, configure return code to failure, protect with pattern random_p, execute miscellaneous commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-03. If a subset of all covered drives is specified for protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:46:49 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 1 test-hdl SWB-17 McCloud SN m 6F 8A 90 1F 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)

Case SWB-17 HDL	-- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
	<pre> tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:46:42) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Not Locked! Hard-Disk 4 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-17 McCloud SN m 6F 8A 90 1F 2B Case: SWB-17 Command set: Misc Date: Thu Oct 02 15:46:49 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-17 <16> 80 Allowed 0000 Off 1 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-17 <FE> 80 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 80 Allowed 0000 Off 1 Undefined Results for SWB-17 category m on drive 80 No commands blocked (0 of 228) 0 SWB-17 <16> 81 Blocked 0300 On 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-17 <FE> 81 Blocked 0300 On 0 Undefined 227 SWB-17 <FF> 81 Blocked 0300 On 0 Undefined Results for SWB-17 category m on drive 81 All commands blocked (228 of 228) 0 SWB-17 <16> 82 Allowed 0000 Off 1 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-17 <FE> 82 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 82 Allowed 0000 Off 1 Undefined Results for SWB-17 category m on drive 82 No commands blocked (0 of 228) 0 SWB-17 <16> 83 Allowed 0000 Off 1 Undefined ... misc commands 17-FD results omitted see log files for full results </pre>

Case SWB-17 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																											
	<pre>... 226 SWB-17 <FE> 83 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 83 Allowed 0000 Off 1 Undefined Results for SWB-17 category m on drive 83 No commands blocked (0 of 228) 0 SWB-17 <16> 84 Allowed 0000 Off 1 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-17 <FE> 84 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 84 Allowed 0000 Off 1 Undefined Results for SWB-17 category m on drive 84 No commands blocked (0 of 228) Summary: 1140 sent, 228 blocked, 912 not blocked</pre>																																										
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>5 drives identified</td><td>5 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is unprotected</td><td>Drive 80 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 81 is protected</td><td>Drive 81 is protected</td></tr><tr><td>AM-09</td><td>Drive 82 is unprotected</td><td>Drive 82 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 83 is unprotected</td><td>Drive 83 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 84 is unprotected</td><td>Drive 84 is unprotected</td></tr><tr><td>AM-11</td><td>228 Commands return fail</td><td>228 Commands return fail</td></tr><tr><td>AO-03</td><td>All cmds to drive 81 blocked</td><td>All cmds to drive 81 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 80 blocked</td><td>No cmds to drive 80 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 82 blocked</td><td>No cmds to drive 82 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 83 blocked</td><td>No cmds to drive 83 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 84 blocked</td><td>No cmds to drive 84 blocked</td></tr></table>	Assertion	Expected Results	Actual Results	AM-07	Tool active message	Tool active message	AM-08	5 drives identified	5 drives identified	AM-09	Drive 80 is unprotected	Drive 80 is unprotected	AM-09	Drive 81 is protected	Drive 81 is protected	AM-09	Drive 82 is unprotected	Drive 82 is unprotected	AM-09	Drive 83 is unprotected	Drive 83 is unprotected	AM-09	Drive 84 is unprotected	Drive 84 is unprotected	AM-11	228 Commands return fail	228 Commands return fail	AO-03	All cmds to drive 81 blocked	All cmds to drive 81 blocked	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked	AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Assertion	Expected Results	Actual Results																																									
AM-07	Tool active message	Tool active message																																									
AM-08	5 drives identified	5 drives identified																																									
AM-09	Drive 80 is unprotected	Drive 80 is unprotected																																									
AM-09	Drive 81 is protected	Drive 81 is protected																																									
AM-09	Drive 82 is unprotected	Drive 82 is unprotected																																									
AM-09	Drive 83 is unprotected	Drive 83 is unprotected																																									
AM-09	Drive 84 is unprotected	Drive 84 is unprotected																																									
AM-11	228 Commands return fail	228 Commands return fail																																									
AO-03	All cmds to drive 81 blocked	All cmds to drive 81 blocked																																									
AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked																																									
AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked																																									
AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked																																									
AO-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked																																									
Analysis:	SWB-17 Expected results achieved																																										

Case SWB-18 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-18 Install all drives, configure return code to success, protect with pattern not_last, execute miscellaneous commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-03. If a subset of all covered drives is specified for protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:24:51 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S012</p> <p>test-hdl SWB-18 Wimsey SN m 6F 90 1F 2B</p> <p>Shutdown Test PC</p>

Case SWB-18 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:24:48) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-18 Wimsey SN m 6F 90 1F 2B Case: SWB-18 Command set: Misc Date: Thu Oct 02 15:24:51 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-18 <16> 80 Blocked 0000 Off 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-18 <FE> 80 Blocked 0000 Off 0 Undefined 227 SWB-18 <FF> 80 Blocked 0000 Off 0 Undefined Results for SWB-18 category m on drive 80 All commands blocked (228 of 228) 0 SWB-18 <16> 81 Blocked 0000 Off 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-18 <FE> 81 Blocked 0000 Off 0 Undefined 227 SWB-18 <FF> 81 Blocked 0000 Off 0 Undefined Results for SWB-18 category m on drive 81 All commands blocked (228 of 228) 0 SWB-18 <16> 82 Blocked 0000 Off 0 Undefined ... misc commands 17-FD results omitted see log files for full results ... 226 SWB-18 <FE> 82 Blocked 0000 Off 0 Undefined 227 SWB-18 <FF> 82 Blocked 0000 Off 0 Undefined Results for SWB-18 category m on drive 82 All commands blocked (228 of 228) 0 SWB-18 <16> 83 Allowed 0000 Off 1 Undefined ... </pre>

Case SWB-18 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	misc commands 17-FD results omitted see log files for full results ... 226 SWB-18 <FE> 83 Allowed 0000 Off 1 Undefined 227 SWB-18 <FF> 83 Allowed 0000 Off 1 Undefined Results for SWB-18 category m on drive 83 No commands blocked (0 of 228) Summary: 912 sent, 684 blocked, 228 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-10	684 Commands return success	684 Commands return success
	AO-03	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-03	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-03	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
Analysis:	SWB-18 Expected results achieved		

Case SWB-19 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-19 Install all drives, configure return code to failure, protect with pattern last, execute read commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:27:19 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 3 test-hdl SWB-19 Wimsey SN r 6F 90 1F 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:27:17) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test

Case SWB-19 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	<div>4 Hard-Disks reported by Int_13h</div> <div>Hard-Disk 0 Not Locked!</div> <div>Hard-Disk 1 Not Locked!</div> <div>Hard-Disk 2 Not Locked!</div> <div>Hard-Disk 3 Locked!</div> <div>Write Block successfully installed.</div> <div>***** Test Harness Log *****</div> <div>CMD: A:\TEST-HDL.EXE SWB-19 Wimsey SN r 6F 90 1F 2B</div> <div>Case: SWB-19</div> <div>Command set: Read</div> <div>Date: Thu Oct 02 15:27:19 2003</div> <div>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51</div> <div>@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19</div> <div>Compiled on Aug 31 2003 at 08:10:54</div> <div>Operator: SN</div> <div>Host: Wimsey</div> <div>Number of drives 4, Drives: 6F 90 1F 2B</div> <div>Case Cmd Drv Action Stat Cry Count Cmd Name</div> <div>0 SWB-19 <02> 80 Allowed 0000 Off 1 ReadSectors</div> <div>1 SWB-19 <0A> 80 Allowed 0000 Off 1 ReadLong</div> <div>2 SWB-19 <42> 80 Allowed 0000 Off 1 ExtRead</div> <div>Results for SWB-19 category r on drive 80 No commands blocked (0 of 3)</div> <div>0 SWB-19 <02> 81 Allowed 0000 Off 1 ReadSectors</div> <div>1 SWB-19 <0A> 81 Allowed 0000 Off 1 ReadLong</div> <div>2 SWB-19 <42> 81 Allowed 0000 Off 1 ExtRead</div> <div>Results for SWB-19 category r on drive 81 No commands blocked (0 of 3)</div> <div>0 SWB-19 <02> 82 Allowed 0000 Off 1 ReadSectors</div> <div>1 SWB-19 <0A> 82 Allowed 0000 Off 1 ReadLong</div> <div>2 SWB-19 <42> 82 Allowed 0000 Off 1 ExtRead</div> <div>Results for SWB-19 category r on drive 82 No commands blocked (0 of 3)</div> <div>0 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors</div> <div>1 SWB-19 <0A> 83 Allowed 0000 Off 1 ReadLong</div> <div>2 SWB-19 <42> 83 Allowed 0000 Off 1 ExtRead</div> <div>Results for SWB-19 category r on drive 83 No commands blocked (0 of 3)</div> <div>Summary: 12 sent, 0 blocked, 12 not blocked</div>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-11	0 Commands return fail	0 Commands return fail
	AO-04	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-19 Expected results achieved		

Case SWB-20 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-20 Install all drives, configure return code to success, protect with pattern not_mid, execute read commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>

Case SWB-20 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Tester Name:	SN		
Test Date:	Thu Oct 02 15:32:00 2003		
Test PC:	Wimsey		
Test Software:	SWBT 1.0		
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S013 test-hdl SWB-20 Wimsey SN r 6F 90 1F 2B Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:31:57) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-20 Wimsey SN r 6F 90 1F 2B Case: SWB-20 Command set: Read Date: Thu Oct 02 15:32:00 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-20 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-20 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-20 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-20 category r on drive 80 No commands blocked (0 of 3) 0 SWB-20 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-20 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-20 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-20 category r on drive 81 No commands blocked (0 of 3) 0 SWB-20 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-20 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-20 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-20 category r on drive 82 No commands blocked (0 of 3) 0 SWB-20 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-20 <0A> 83 Allowed 0000 Off 1 ReadLong 2 SWB-20 <42> 83 Allowed 0000 Off 1 ExtRead Results for SWB-20 category r on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 0 blocked, 12 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-10	0 Commands return success	0 Commands return success

Case SWB-20 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	AO-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked	
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked	
	AO-04	No cmds to drive 83 blocked	No cmds to drive 83 blocked	
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked	
Analysis:	SWB-20 Expected results achieved			

Case SWB-21 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-21 Install all drives, configure return code to failure, protect with pattern high, execute information commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-06. If a subset of all covered drives is specified for protection, then commands from the information category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:34:01 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 23</p> <p>test-hdl SWB-21 Wimsey SN i 6F 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:33:59) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-21 Wimsey SN i 6F 90 1F 2B Case: SWB-21 Command set: Information Date: Thu Oct 02 15:34:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-21 <01> 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-21 <04> 80 Allowed 0000 Off 1 VerifySectors </pre>

Case SWB-21 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001									
	2	SWB-21	<08>	80	Allowed	0000	Off	1	ReadDriveParms
	3	SWB-21	<10>	80	Allowed	0000	Off	1	TestDriveReady
	4	SWB-21	<15>	80	Allowed	0000	Off	1	ReadDriveType
	5	SWB-21	<41>	80	Allowed	0000	Off	1	CheckForExtensions
	6	SWB-21	<44>	80	Allowed	0000	Off	1	VerifySectors
	7	SWB-21	<48>	80	Allowed	0000	Off	1	GetDriveParms
	Results for SWB-21 category i on drive 80								No commands blocked (0 of 8)
	0	SWB-21	<01>	81	Allowed	0000	Off	1	GetLastStatus
	1	SWB-21	<04>	81	Allowed	0000	Off	1	VerifySectors
	2	SWB-21	<08>	81	Allowed	0000	Off	1	ReadDriveParms
	3	SWB-21	<10>	81	Allowed	0000	Off	1	TestDriveReady
	4	SWB-21	<15>	81	Allowed	0000	Off	1	ReadDriveType
	5	SWB-21	<41>	81	Allowed	0000	Off	1	CheckForExtensions
	6	SWB-21	<44>	81	Allowed	0000	Off	1	VerifySectors
	7	SWB-21	<48>	81	Allowed	0000	Off	1	GetDriveParms
	Results for SWB-21 category i on drive 81								No commands blocked (0 of 8)
	0	SWB-21	<01>	82	Allowed	0000	Off	1	GetLastStatus
	1	SWB-21	<04>	82	Allowed	0000	Off	1	VerifySectors
	2	SWB-21	<08>	82	Allowed	0000	Off	1	ReadDriveParms
	3	SWB-21	<10>	82	Allowed	0000	Off	1	TestDriveReady
	4	SWB-21	<15>	82	Blocked	0300	On	0	ReadDriveType
	5	SWB-21	<41>	82	Allowed	0000	Off	1	CheckForExtensions
	6	SWB-21	<44>	82	Allowed	0000	Off	1	VerifySectors
	7	SWB-21	<48>	82	Allowed	0000	Off	1	GetDriveParms
	Results for SWB-21 category i on drive 82								Not all commands blocked (1 of 8)
	0	SWB-21	<01>	83	Allowed	0000	Off	1	GetLastStatus
	1	SWB-21	<04>	83	Allowed	0000	Off	1	VerifySectors
	2	SWB-21	<08>	83	Allowed	0000	Off	1	ReadDriveParms
	3	SWB-21	<10>	83	Allowed	0000	Off	1	TestDriveReady
	4	SWB-21	<15>	83	Blocked	0300	On	0	ReadDriveType
	5	SWB-21	<41>	83	Allowed	0000	Off	1	CheckForExtensions
	6	SWB-21	<44>	83	Allowed	0000	Off	1	VerifySectors
	7	SWB-21	<48>	83	Allowed	0000	Off	1	GetDriveParms
Results for SWB-21 category i on drive 83								Not all commands blocked (1 of 8)	
Summary: 32 sent, 2 blocked, 30 not blocked									
Results:	Assertion		Expected Results			Actual Results			
	AM-07		Tool active message			Tool active message			
	AM-08		4 drives identified			4 drives identified			
	AM-09		Drive 80 is unprotected			Drive 80 is unprotected			
	AM-09		Drive 81 is unprotected			Drive 81 is unprotected			
	AM-09		Drive 82 is protected			Drive 82 is protected			
	AM-09		Drive 83 is protected			Drive 83 is protected			
	AM-11		2 Commands return fail			2 Commands return fail			
	AO-06		No cmds to drive 82 blocked			Not all cmds to drive 82 blocked			
	AO-06		No cmds to drive 83 blocked			Not all cmds to drive 83 blocked			
	AO-07		No cmds to drive 80 blocked			No cmds to drive 80 blocked			
	AO-07		No cmds to drive 81 blocked			No cmds to drive 81 blocked			
Analysis:	SWB-21 Expected results not achieved for assertions: AO-06								

Case SWB-22 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-22 Install all drives, configure return code to success, protect with pattern not_first, execute information commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-06. If a subset of all covered drives is specified for protection,

Case SWB-22 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
	<p>then commands from the information category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:36:18 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S123</p> <p>test-hdl SWB-22 Wimsey SN i 6F 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:36:16) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-22 Wimsey SN i 6F 90 1F 2B Case: SWB-22 Command set: Information Date: Thu Oct 02 15:36:18 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-22 <01> 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-22 <04> 80 Allowed 0000 Off 1 VerifySectors 2 SWB-22 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-22 <10> 80 Allowed 0000 Off 1 TestDriveReady 4 SWB-22 <15> 80 Allowed 0000 Off 1 ReadDriveType 5 SWB-22 <41> 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-22 <44> 80 Allowed 0000 Off 1 VerifySectors 7 SWB-22 <48> 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-22 category i on drive 80 No commands blocked (0 of 8) 0 SWB-22 <01> 81 Allowed 0000 Off 1 GetLastStatus 1 SWB-22 <04> 81 Allowed 0000 Off 1 VerifySectors 2 SWB-22 <08> 81 Allowed 0000 Off 1 ReadDriveParms 3 SWB-22 <10> 81 Allowed 0000 Off 1 TestDriveReady 4 SWB-22 <15> 81 Blocked 0000 Off 0 ReadDriveType 5 SWB-22 <41> 81 Allowed 0000 Off 1 CheckForExtensions 6 SWB-22 <44> 81 Allowed 0000 Off 1 VerifySectors 7 SWB-22 <48> 81 Allowed 0000 Off 1 GetDriveParms Results for SWB-22 category i on drive 81 Not all commands blocked (1 of 8) 0 SWB-22 <01> 82 Allowed 0000 Off 1 GetLastStatus 1 SWB-22 <04> 82 Allowed 0000 Off 1 VerifySectors 2 SWB-22 <08> 82 Allowed 0000 Off 1 ReadDriveParms 3 SWB-22 <10> 82 Allowed 0000 Off 1 TestDriveReady </pre>

Case SWB-22 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	4 SWB-22 <15> 82 Blocked 0000 Off 0 ReadDriveType 5 SWB-22 <41> 82 Allowed 0000 Off 1 CheckForExtensions 6 SWB-22 <44> 82 Allowed 0000 Off 1 VerifySectors 7 SWB-22 <48> 82 Allowed 0000 Off 1 GetDriveParms Results for SWB-22 category i on drive 82 Not all commands blocked (1 of 8) 0 SWB-22 <01> 83 Allowed 0000 Off 1 GetLastStatus 1 SWB-22 <04> 83 Allowed 0000 Off 1 VerifySectors 2 SWB-22 <08> 83 Allowed 0000 Off 1 ReadDriveParms 3 SWB-22 <10> 83 Allowed 0000 Off 1 TestDriveReady 4 SWB-22 <15> 83 Blocked 0000 Off 0 ReadDriveType 5 SWB-22 <41> 83 Allowed 0000 Off 1 CheckForExtensions 6 SWB-22 <44> 83 Allowed 0000 Off 1 VerifySectors 7 SWB-22 <48> 83 Allowed 0000 Off 1 GetDriveParms Results for SWB-22 category i on drive 83 Not all commands blocked (1 of 8) Summary: 32 sent, 3 blocked, 29 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-10	3 Commands return success	3 Commands return success
	AO-06	No cmds to drive 81 blocked	Not all cmds to drive 81 blocked
	AO-06	No cmds to drive 82 blocked	Not all cmds to drive 82 blocked
	AO-06	No cmds to drive 83 blocked	Not all cmds to drive 83 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
Analysis:	SWB-22 Expected results not achieved for assertions: AO-06		

Case SWB-23 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-23 Install all drives, configure return code to failure, protect with pattern random_u, execute control commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:38:19 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 023 test-hdl SWB-23 Wimsey SN c 6F 90 1F 2B Shutdown Test PC

Case SWB-23 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																	
Log File Highlights:	<pre>***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:38:17) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Hard-Disk 3 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-23 Wimsey SN c 6F 90 1F 2B Case: SWB-23 Command set: Control Date: Thu Oct 02 15:38:19 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-23 <00> 80 Allowed 0000 Off 1 Reset 1 SWB-23 <0C> 80 Allowed 0000 Off 1 SeekDrive 2 SWB-23 <0D> 80 Allowed 0000 Off 1 AltReset 3 SWB-23 <11> 80 Allowed 0000 Off 1 Recalibrate 4 SWB-23 <47> 80 Blocked 0300 On 0 ExtendedSeek Results for SWB-23 category c on drive 80 Not all commands blocked (1 of 5) 0 SWB-23 <00> 81 Allowed 0000 Off 1 Reset 1 SWB-23 <0C> 81 Allowed 0000 Off 1 SeekDrive 2 SWB-23 <0D> 81 Allowed 0000 Off 1 AltReset 3 SWB-23 <11> 81 Allowed 0000 Off 1 Recalibrate 4 SWB-23 <47> 81 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 81 No commands blocked (0 of 5) 0 SWB-23 <00> 82 Allowed 0000 Off 1 Reset 1 SWB-23 <0C> 82 Allowed 0000 Off 1 SeekDrive 2 SWB-23 <0D> 82 Allowed 0000 Off 1 AltReset 3 SWB-23 <11> 82 Allowed 0000 Off 1 Recalibrate 4 SWB-23 <47> 82 Blocked 0300 On 0 ExtendedSeek Results for SWB-23 category c on drive 82 Not all commands blocked (1 of 5) 0 SWB-23 <00> 83 Allowed 0000 Off 1 Reset 1 SWB-23 <0C> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-23 <0D> 83 Allowed 0000 Off 1 AltReset 3 SWB-23 <11> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-23 <47> 83 Blocked 0300 On 0 ExtendedSeek Results for SWB-23 category c on drive 83 Not all commands blocked (1 of 5) Summary: 20 sent, 3 blocked, 17 not blocked</pre>																																
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>4 drives identified</td><td>4 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is protected</td><td>Drive 80 is protected</td></tr><tr><td>AM-09</td><td>Drive 81 is unprotected</td><td>Drive 81 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 82 is protected</td><td>Drive 82 is protected</td></tr><tr><td>AM-09</td><td>Drive 83 is protected</td><td>Drive 83 is protected</td></tr><tr><td>AM-11</td><td>3 Commands return fail</td><td>3 Commands return fail</td></tr><tr><td>AO-05</td><td>No cmds to drive 80 blocked</td><td>Not all cmds to drive 80 blocked</td></tr><tr><td>AO-05</td><td>No cmds to drive 82 blocked</td><td>Not all cmds to drive 82 blocked</td></tr></table>			Assertion	Expected Results	Actual Results	AM-07	Tool active message	Tool active message	AM-08	4 drives identified	4 drives identified	AM-09	Drive 80 is protected	Drive 80 is protected	AM-09	Drive 81 is unprotected	Drive 81 is unprotected	AM-09	Drive 82 is protected	Drive 82 is protected	AM-09	Drive 83 is protected	Drive 83 is protected	AM-11	3 Commands return fail	3 Commands return fail	AO-05	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked	AO-05	No cmds to drive 82 blocked	Not all cmds to drive 82 blocked
Assertion	Expected Results	Actual Results																															
AM-07	Tool active message	Tool active message																															
AM-08	4 drives identified	4 drives identified																															
AM-09	Drive 80 is protected	Drive 80 is protected																															
AM-09	Drive 81 is unprotected	Drive 81 is unprotected																															
AM-09	Drive 82 is protected	Drive 82 is protected																															
AM-09	Drive 83 is protected	Drive 83 is protected																															
AM-11	3 Commands return fail	3 Commands return fail																															
AO-05	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked																															
AO-05	No cmds to drive 82 blocked	Not all cmds to drive 82 blocked																															

Case SWB-23 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	AO-05	No cmds to drive 83 blocked	Not all cmds to drive 83 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
Analysis:	SWB-23 Expected results not achieved for assertions: AO-05		

Case SWB-24 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-24 Install all drives, configure return code to success, protect with pattern even, execute control commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 15:40:50 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S02</p> <p>test-hdl SWB-24 Wimsey SN c 6F 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:40:47) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Hard-Disk 3 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-24 Wimsey SN c 6F 90 1F 2B Case: SWB-24 Command set: Control Date: Thu Oct 02 15:40:50 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-24 <00> 80 Allowed 0000 Off 1 Reset 1 SWB-24 <0C> 80 Allowed 0000 Off 1 SeekDrive </pre>

Case SWB-24 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	2 SWB-24 <0D> 80 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 80 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 80 Blocked 0000 Off 0 ExtendedSeek Results for SWB-24 category c on drive 80 Not all commands blocked (1 of 5) 0 SWB-24 <00> 81 Allowed 0000 Off 1 Reset 1 SWB-24 <0C> 81 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <0D> 81 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 81 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 81 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 81 No commands blocked (0 of 5) 0 SWB-24 <00> 82 Allowed 0000 Off 1 Reset 1 SWB-24 <0C> 82 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <0D> 82 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 82 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 82 Blocked 0000 Off 0 ExtendedSeek Results for SWB-24 category c on drive 82 Not all commands blocked (1 of 5) 0 SWB-24 <00> 83 Allowed 0000 Off 1 Reset 1 SWB-24 <0C> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <0D> 83 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 83 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) Summary: 20 sent, 2 blocked, 18 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-10	2 Commands return success	2 Commands return success
	AO-05	No cmds to drive 80 blocked	Not all cmds to drive 80 blocked
	AO-05	No cmds to drive 82 blocked	Not all cmds to drive 82 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
Analysis:	SWB-24 Expected results not achieved for assertions: AO-05		

Case SWB-25 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-25 Install three drives, configure return code to failure, protect with pattern PUU, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	JRL
Test Date:	Thu Oct 02 12:56:03 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors

Case SWB-25 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																	
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 0 test-hdl SWB-25 Rumpole JRL w 90 8A 2B Shutdown Test PC																																
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 12:56:00) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-25 Rumpole JRL w 90 8A 2B Case: SWB-25 Command set: Write Date: Thu Oct 02 12:56:03 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-25 <03> 80 Blocked 0300 On 0 WriteSectors 1 SWB-25 <0B> 80 Blocked 0300 On 0 WriteLong 2 SWB-25 <43> 80 Blocked 0300 On 0 ExtWrite Results for SWB-25 category w on drive 80 All commands blocked (3 of 3) 0 SWB-25 <03> 81 Allowed 0000 Off 1 WriteSectors 1 SWB-25 <0B> 81 Allowed 0000 Off 1 WriteLong 2 SWB-25 <43> 81 Allowed 0000 Off 1 ExtWrite Results for SWB-25 category w on drive 81 No commands blocked (0 of 3) 0 SWB-25 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-25 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-25 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-25 category w on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 3 blocked, 6 not blocked																																
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>3 drives identified</td><td>3 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is protected</td><td>Drive 80 is protected</td></tr><tr><td>AM-09</td><td>Drive 81 is unprotected</td><td>Drive 81 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 82 is unprotected</td><td>Drive 82 is unprotected</td></tr><tr><td>AM-11</td><td>3 Commands return fail</td><td>3 Commands return fail</td></tr><tr><td>AO-01</td><td>All cmds to drive 80 blocked</td><td>All cmds to drive 80 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 81 blocked</td><td>No cmds to drive 81 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 82 blocked</td><td>No cmds to drive 82 blocked</td></tr></table>			Assertion	Expected Results	Actual Results	AM-07	Tool active message	Tool active message	AM-08	3 drives identified	3 drives identified	AM-09	Drive 80 is protected	Drive 80 is protected	AM-09	Drive 81 is unprotected	Drive 81 is unprotected	AM-09	Drive 82 is unprotected	Drive 82 is unprotected	AM-11	3 Commands return fail	3 Commands return fail	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Assertion	Expected Results	Actual Results																															
AM-07	Tool active message	Tool active message																															
AM-08	3 drives identified	3 drives identified																															
AM-09	Drive 80 is protected	Drive 80 is protected																															
AM-09	Drive 81 is unprotected	Drive 81 is unprotected																															
AM-09	Drive 82 is unprotected	Drive 82 is unprotected																															
AM-11	3 Commands return fail	3 Commands return fail																															
AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked																															
AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked																															
AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked																															
Analysis:	SWB-25 Expected results achieved																																

Case SWB-26 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-26 Install three drives, configure return code to success, protect with pattern UPU, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.

Case SWB-26 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.		
Tester Name:	JRL		
Test Date:	Thu Oct 02 12:57:55 2003		
Test PC:	Rumpole		
Test Software:	SWBT 1.0		
Hard Drives Used:	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S1 test-hdl SWB-26 Rumpole JRL w 90 8A 2B Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 12:57:52) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-26 Rumpole JRL w 90 8A 2B Case: SWB-26 Command set: Write Date: Thu Oct 02 12:57:55 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-26 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-26 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-26 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-26 category w on drive 80 No commands blocked (0 of 3) 0 SWB-26 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-26 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-26 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-26 category w on drive 81 All commands blocked (3 of 3) 0 SWB-26 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-26 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-26 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-26 category w on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 3 blocked, 6 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected

Case SWB-26 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	AM-10	3 Commands return success	3 Commands return success	
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked	
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked	
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked	
Analysis:	SWB-26 Expected results achieved			

Case SWB-27 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-27 Install three drives, configure return code to failure, protect with pattern UUP, execute write commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	JRL
Test Date:	Thu Oct 02 12:59:52 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 2</p> <p>test-hdl SWB-27 Rumpole JRL w 90 8A 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 12:59:50) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-27 Rumpole JRL w 90 8A 2B Case: SWB-27 Command set: Write Date: Thu Oct 02 12:59:52 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-27 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-27 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-27 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-27 category w on drive 80 No commands blocked (0 of 3) 0 SWB-27 <03> 81 Allowed 0000 Off 1 WriteSectors </pre>

Case SWB-27 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	1 SWB-27 <0B> 81 Allowed 0000 Off 1 WriteLong 2 SWB-27 <43> 81 Allowed 0000 Off 1 ExtWrite Results for SWB-27 category w on drive 81 No commands blocked (0 of 3) 0 SWB-27 <03> 82 Blocked 0300 On 0 WriteSectors 1 SWB-27 <0B> 82 Blocked 0300 On 0 WriteLong 2 SWB-27 <43> 82 Blocked 0300 On 0 ExtWrite Results for SWB-27 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 3 blocked, 6 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-11	3 Commands return fail	3 Commands return fail
	AO-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
Analysis:	SWB-27 Expected results achieved		

Case SWB-28 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-28 Install three drives, configure return code to success, protect with pattern UPP, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	JRL
Test Date:	Thu Oct 02 13:01:53 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S12 test-hdl SWB-28 Rumpole JRL w 90 8A 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:01:51) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-28 Rumpole JRL w 90 8A 2B

Case SWB-28 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Case: SWB-28 Command set: Write Date: Thu Oct 02 13:01:53 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-28 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-28 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-28 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-28 category w on drive 80 No commands blocked (0 of 3) 0 SWB-28 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-28 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 81 All commands blocked (3 of 3) 0 SWB-28 <03> 82 Blocked 0000 Off 0 WriteSectors 1 SWB-28 <0B> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-10	6 Commands return success	6 Commands return success
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
Analysis:	SWB-28 Expected results achieved		

Case SWB-29 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-29 Install three drives, configure return code to failure, protect with pattern PUP, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	JRL
Test Date:	Thu Oct 02 13:04:49 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 02 test-hdl SWB-29 Rumpole JRL w 90 8A 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)

Case SWB-29 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																	
<pre>tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:04:46) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-29 Rumpole JRL w 90 8A 2B Case: SWB-29 Command set: Write Date: Thu Oct 02 13:04:49 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-29 <03> 80 Blocked 0300 On 0 WriteSectors 1 SWB-29 <0B> 80 Blocked 0300 On 0 WriteLong 2 SWB-29 <43> 80 Blocked 0300 On 0 ExtWrite Results for SWB-29 category w on drive 80 All commands blocked (3 of 3) 0 SWB-29 <03> 81 Allowed 0000 Off 1 WriteSectors 1 SWB-29 <0B> 81 Allowed 0000 Off 1 WriteLong 2 SWB-29 <43> 81 Allowed 0000 Off 1 ExtWrite Results for SWB-29 category w on drive 81 No commands blocked (0 of 3) 0 SWB-29 <03> 82 Blocked 0300 On 0 WriteSectors 1 SWB-29 <0B> 82 Blocked 0300 On 0 WriteLong 2 SWB-29 <43> 82 Blocked 0300 On 0 ExtWrite Results for SWB-29 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked</pre>																																	
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>3 drives identified</td><td>3 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is protected</td><td>Drive 80 is protected</td></tr><tr><td>AM-09</td><td>Drive 81 is unprotected</td><td>Drive 81 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 82 is protected</td><td>Drive 82 is protected</td></tr><tr><td>AM-11</td><td>6 Commands return fail</td><td>6 Commands return fail</td></tr><tr><td>AO-01</td><td>All cmds to drive 80 blocked</td><td>All cmds to drive 80 blocked</td></tr><tr><td>AO-01</td><td>All cmds to drive 82 blocked</td><td>All cmds to drive 82 blocked</td></tr><tr><td>AO-07</td><td>No cmds to drive 81 blocked</td><td>No cmds to drive 81 blocked</td></tr></table>			Assertion	Expected Results	Actual Results	AM-07	Tool active message	Tool active message	AM-08	3 drives identified	3 drives identified	AM-09	Drive 80 is protected	Drive 80 is protected	AM-09	Drive 81 is unprotected	Drive 81 is unprotected	AM-09	Drive 82 is protected	Drive 82 is protected	AM-11	6 Commands return fail	6 Commands return fail	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked	AO-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
Assertion	Expected Results	Actual Results																															
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AM-11	6 Commands return fail	6 Commands return fail																															
AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked																															
AO-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked																															
AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked																															
Analysis:	SWB-29 Expected results achieved																																

Case SWB-30 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-30 Install three drives, configure return code to success, protect with pattern PPU, execute write commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection,</p>

Case SWB-30 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	then no commands from any category shall be blocked for drives not in the selected subset.		
Tester Name:	JRL		
Test Date:	Thu Oct 02 13:07:25 2003		
Test PC:	Rumpole		
Test Software:	SWBT 1.0		
Hard Drives Used:	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S01 test-hdl SWB-30 Rumpole JRL w 90 8A 2B Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:07:22) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-30 Rumpole JRL w 90 8A 2B Case: SWB-30 Command set: Write Date: Thu Oct 02 13:07:25 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-30 <03> 80 Blocked 0000 Off 0 WriteSectors 1 SWB-30 <0B> 80 Blocked 0000 Off 0 WriteLong 2 SWB-30 <43> 80 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 80 All commands blocked (3 of 3) 0 SWB-30 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-30 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-30 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 81 All commands blocked (3 of 3) 0 SWB-30 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-30 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-30 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-30 category w on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 6 blocked, 3 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-10	6 Commands return success	6 Commands return success
	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
Analysis:	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	SWB-30 Expected results achieved		

Case SWB-31 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001

Case SWB-31 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-31 Install three drives, configure return code to failure, protect with pattern PUU, execute read commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	JRL
Test Date:	Thu Oct 02 15:13:31 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 0</p> <p>test-hdl SWB-31 McCloud JRL r 6F 8A 1F</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:13:23) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-31 McCloud JRL r 6F 8A 1F Case: SWB-31 Command set: Read Date: Thu Oct 02 15:13:31 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: McCloud Number of drives 3, Drives: 6F 8A 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-31 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-31 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-31 category r on drive 80 No commands blocked (0 of 3) 0 SWB-31 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-31 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-31 category r on drive 81 No commands blocked (0 of 3) 0 SWB-31 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-31 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-31 category r on drive 82 No commands blocked (0 of 3) </pre>

Case SWB-31 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Summary: 9 sent, 0 blocked, 9 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-11	0 Commands return fail	0 Commands return fail
	AO-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-31 Expected results achieved		

Case SWB-32 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-32 Install three drives, configure return code to success, protect with pattern UPU, execute read commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 13:32:46 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 81, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 S1</p> <p>test-hdl SWB-32 McMillian SN r F6 64 E4</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:32:38) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-32 McMillian SN r F6 64 E4 Case: SWB-32 Command set: Read Date: Thu Oct 02 13:32:46 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 </pre>

Case SWB-32 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-32 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-32 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-32 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-32 category r on drive 80 No commands blocked (0 of 3) 0 SWB-32 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-32 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-32 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-32 category r on drive 81 No commands blocked (0 of 3) 0 SWB-32 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-32 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-32 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-32 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-10	0 Commands return success	0 Commands return success
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-32 Expected results achieved		

Case SWB-33 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-33 Install three drives, configure return code to failure, protect with pattern UUP, execute read commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 13:30:06 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors Drive 81, label 64 is a WDC WD64AA with 12594960 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 2 test-hdl SWB-33 McMillian SN r F6 64 E4 Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:29:59) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED

Case SWB-33 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																	
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-33 McMillian SN r F6 64 E4 Case: SWB-33 Command set: Read Date: Thu Oct 02 13:30:06 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-33 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-33 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-33 category r on drive 80 No commands blocked (0 of 3) 0 SWB-33 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-33 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-33 category r on drive 81 No commands blocked (0 of 3) 0 SWB-33 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-33 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-33 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked																																
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Assertion	Expected Results	Actual Results																															
AM-07	Tool active message	Tool active message																															
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AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked																															
Analysis:	SWB-33 Expected results achieved																																

Case SWB-34 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-34 Install three drives, configure return code to success, protect with pattern UPP, execute read commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 13:27:15 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors

Case SWB-34 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Used:	Drive 81, label 64 is a WDC WD64AA with 12594960 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 S12 test-hdl SWB-34 McMillian SN r F6 64 E4 Shutdown Test PC		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:27:07) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 80 No commands blocked (0 of 3) 0 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 81 No commands blocked (0 of 3) 0 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-10	0 Commands return success	0 Commands return success
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-04	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
Analysis:	SWB-34 Expected results achieved		

Case SWB-35 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-35 Install three drives, configure return code to failure, protect with pattern PUP, execute read commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message

Case SWB-35 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	<p>indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>		
Tester Name:	SN		
Test Date:	Thu Oct 02 13:24:29 2003		
Test PC:	McMillian		
Test Software:	SWBT 1.0		
Hard Drives Used:	<p>Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 81, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>		
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 02</p> <p>test-hdl SWB-35 McMillian SN r F6 64 E4</p> <p>Shutdown Test PC</p>		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:24:21) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-35 McMillian SN r F6 64 E4 Case: SWB-35 Command set: Read Date: Thu Oct 02 13:24:29 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-35 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-35 category r on drive 80 No commands blocked (0 of 3) 0 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-35 category r on drive 81 No commands blocked (0 of 3) 0 SWB-35 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-35 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected

Case SWB-35 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-11	0 Commands return fail	0 Commands return fail
	AO-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-04	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
Analysis:	SWB-35 Expected results achieved		

Case SWB-36 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-36 Install three drives, configure return code to success, protect with pattern PPU, execute read commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 13:18:17 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 81, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>
Commands executed:	<p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tallyl3</p> <p>hdl7 S01</p> <p>test-hdl SWB-36 McMillian SN r F6 64 E4</p> <p>Shutdown Test PC</p>
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tallyl3 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:18:10) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-36 McMillian SN r F6 64 E4 Case: SWB-36 Command set: Read Date: Thu Oct 02 13:18:17 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-36 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-36 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-36 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-36 category r on drive 80 No commands blocked (0 of 3) </pre>

Case SWB-36 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	0 SWB-36 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-36 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-36 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-36 category r on drive 81 No commands blocked (0 of 3) 0 SWB-36 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-36 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-36 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-36 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-10	0 Commands return success	0 Commands return success
	AO-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-36 Expected results achieved		

Case SWB-37 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-37 Install all drives, configure to be active at boot and shutdown, configure return code to failure, protect with pattern odd, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-08. If the tool is active during the operating system boot and shutdown processes then no changes are made to any protected drives.
Tester Name:	JRL
Test Date:	Fri Oct 03 08:45:33 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Host (HDL in AUTOEXEC.BAT) Windows 98 [Version 4.10.2222] tally13 hdl7 13 test-hdl SWB-37 Wimsey JRL w 6F 90 1F 2B Shutdown Host
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/03/03 at 08:40:29) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Locked!

Case SWB-37 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001																																							
	Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-37 Wimsey JRL w 6F 90 1F 2B Case: SWB-37 Command set: Write Date: Fri Oct 03 08:45:33 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Wimsey Number of drives 4, Drives: 6F 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-37 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-37 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-37 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-37 category w on drive 80 No commands blocked (0 of 3) 0 SWB-37 <03> 81 Blocked 0300 On 0 WriteSectors 1 SWB-37 <0B> 81 Blocked 0300 On 0 WriteLong 2 SWB-37 <43> 81 Blocked 0300 On 0 ExtWrite Results for SWB-37 category w on drive 81 All commands blocked (3 of 3) 0 SWB-37 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-37 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-37 <43> 82 Allowed 0000 Off 1 ExtWrite Results for SWB-37 category w on drive 82 No commands blocked (0 of 3) 0 SWB-37 <03> 83 Blocked 0300 On 0 WriteSectors 1 SWB-37 <0B> 83 Blocked 0300 On 0 WriteLong 2 SWB-37 <43> 83 Blocked 0300 On 0 ExtWrite Results for SWB-37 category w on drive 83 All commands blocked (3 of 3) Summary: 12 sent, 6 blocked, 6 not blocked																																						
Results:	<table><tr><th>Assertion</th><th>Expected Results</th><th>Actual Results</th></tr><tr><td>AM-07</td><td>Tool active message</td><td>Tool active message</td></tr><tr><td>AM-08</td><td>4 drives identified</td><td>4 drives identified</td></tr><tr><td>AM-09</td><td>Drive 80 is unprotected</td><td>Drive 80 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 81 is protected</td><td>Drive 81 is protected</td></tr><tr><td>AM-09</td><td>Drive 82 is unprotected</td><td>Drive 82 is unprotected</td></tr><tr><td>AM-09</td><td>Drive 83 is protected</td><td>Drive 83 is protected</td></tr><tr><td>AM-11</td><td>6 Commands return fail</td><td>6 Commands return fail</td></tr><tr><td>AO-08</td><td>All cmds to drive 81 blocked</td><td>All cmds to drive 81 blocked</td></tr><tr><td>AO-08</td><td>All cmds to drive 83 blocked</td><td>All cmds to drive 83 blocked</td></tr><tr><td>AO-08</td><td>No cmds to drive 80 blocked</td><td>No cmds to drive 80 blocked</td></tr><tr><td>AO-08</td><td>No cmds to drive 82 blocked</td><td>No cmds to drive 82 blocked</td></tr></table>			Assertion	Expected Results	Actual Results	AM-07	Tool active message	Tool active message	AM-08	4 drives identified	4 drives identified	AM-09	Drive 80 is unprotected	Drive 80 is unprotected	AM-09	Drive 81 is protected	Drive 81 is protected	AM-09	Drive 82 is unprotected	Drive 82 is unprotected	AM-09	Drive 83 is protected	Drive 83 is protected	AM-11	6 Commands return fail	6 Commands return fail	AO-08	All cmds to drive 81 blocked	All cmds to drive 81 blocked	AO-08	All cmds to drive 83 blocked	All cmds to drive 83 blocked	AO-08	No cmds to drive 80 blocked	No cmds to drive 80 blocked	AO-08	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Assertion	Expected Results	Actual Results																																					
AM-07	Tool active message	Tool active message																																					
AM-08	4 drives identified	4 drives identified																																					
AM-09	Drive 80 is unprotected	Drive 80 is unprotected																																					
AM-09	Drive 81 is protected	Drive 81 is protected																																					
AM-09	Drive 82 is unprotected	Drive 82 is unprotected																																					
AM-09	Drive 83 is protected	Drive 83 is protected																																					
AM-11	6 Commands return fail	6 Commands return fail																																					
AO-08	All cmds to drive 81 blocked	All cmds to drive 81 blocked																																					
AO-08	All cmds to drive 83 blocked	All cmds to drive 83 blocked																																					
AO-08	No cmds to drive 80 blocked	No cmds to drive 80 blocked																																					
AO-08	No cmds to drive 82 blocked	No cmds to drive 82 blocked																																					
Analysis:	SWB-37 Expected results achieved																																						

Case SWB-38 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-38 Install all drives, configure to be active at boot and shutdown, configure return code to success, protect with pattern even, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-08. If the tool is active during the operating system boot and shutdown processes then no changes are made to any protected drives.
Tester Name:	JRL
Test Date:	Fri Oct 03 09:56:33 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548

Case SWB-38 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors		
Commands executed:	Boot Host (HDL in AUTOEXEC.BAT) Windows 98 [Version 4.10.2222] tally13 hdl7 S024 test-hdl SWB-38 McCloud JRL w 6F 8A 90 1F 2B Shutdown Host		
Log File Highlights:	<pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/03/03 at 09:54:34) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ----- Royal Canadian Mounted Police ----- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 5 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Hard-Disk 3 Not Locked! Hard-Disk 4 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-38 McCloud JRL w 6F 8A 90 1F 2B Case: SWB-38 Command set: Write Date: Fri Oct 03 09:56:33 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-38 <03> 80 Blocked 0000 Off 0 WriteSectors 1 SWB-38 <0B> 80 Blocked 0000 Off 0 WriteLong 2 SWB-38 <43> 80 Blocked 0000 Off 0 ExtWrite Results for SWB-38 category w on drive 80 All commands blocked (3 of 3) 0 SWB-38 <03> 81 Allowed 0000 Off 1 WriteSectors 1 SWB-38 <0B> 81 Allowed 0000 Off 1 WriteLong 2 SWB-38 <43> 81 Allowed 0000 Off 1 ExtWrite Results for SWB-38 category w on drive 81 No commands blocked (0 of 3) 0 SWB-38 <03> 82 Blocked 0000 Off 0 WriteSectors 1 SWB-38 <0B> 82 Blocked 0000 Off 0 WriteLong 2 SWB-38 <43> 82 Blocked 0000 Off 0 ExtWrite Results for SWB-38 category w on drive 82 All commands blocked (3 of 3) 0 SWB-38 <03> 83 Allowed 0000 Off 1 WriteSectors 1 SWB-38 <0B> 83 Allowed 0000 Off 1 WriteLong 2 SWB-38 <43> 83 Allowed 0000 Off 1 ExtWrite Results for SWB-38 category w on drive 83 No commands blocked (0 of 3) 0 SWB-38 <03> 84 Blocked 0000 Off 0 WriteSectors 1 SWB-38 <0B> 84 Blocked 0000 Off 0 WriteLong 2 SWB-38 <43> 84 Blocked 0000 Off 0 ExtWrite Results for SWB-38 category w on drive 84 All commands blocked (3 of 3) Summary: 15 sent, 9 blocked, 6 not blocked </pre>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-10	9 Commands return success	9 Commands return success

Case SWB-38 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	AO-08	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-08	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AO-08	All cmds to drive 84 blocked	All cmds to drive 84 blocked
	AO-08	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-08	No cmds to drive 83 blocked	No cmds to drive 83 blocked
Analysis:	SWB-38 Expected results achieved		

Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-39 Install all drives, configure return code to failure, protect with pattern high, execute write commands, uninstall, execute all commands.
Assertions Tested:	<p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-09. If the tool is active and the tool is then uninstalled then no commands to any drive shall be blocked.</p>
Tester Name:	SN
Test Date:	Thu Oct 02 16:18:10 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives Used:	<p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>
Commands executed:	<p>Boot Test PC</p> <p>Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>hdl7 234</p> <p>test-hdl SWB-39 McCloud SN w 6F 8A 90 1F 2B</p> <p>t-off SWB-39 McCloud SN</p> <p>hdl7 R</p> <p>test-hdl SWB-39 McCloud SN a 6F 8A 90 1F 2B</p> <p>Shutdown Test PC</p>
Log File Highlights:	<p>***** Monitor Execution *****</p> <p>Monitor BIOS interrupt 13h (disk service)</p> <p>tally13 compiled on 07/29/03 at 07:33:17</p> <p>@(#) Version 1.1 Created 07/29/03 at 07:28:05</p> <p>Now (10/02/03 at 16:17:47) Going . . . TSR</p> <p>***** Install HDL Log *****</p> <p>HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001</p> <p>---- Royal Canadian Mounted Police ----</p> <p>UNAUTHORIZED USE / DISTRIBUTION PROHIBITED</p> <p>Licensee: U.S. DoC - NIST - Computer Forensic Tool Test</p> <p>5 Hard-Disks reported by Int_13h</p> <p>Hard-Disk 0 Not Locked!</p> <p>Hard-Disk 1 Not Locked!</p> <p>Hard-Disk 2 Locked!</p> <p>Hard-Disk 3 Locked!</p> <p>Hard-Disk 4 Locked!</p> <p>Write Block successfully installed.</p> <p>***** Blocked Write Commands *****</p> <p>CMD: a:\TEST-HDL.EXE SWB-39 McCloud SN w 6F 8A 90 1F 2B</p> <p>Case: SWB-39</p> <p>Command set: Write</p> <p>Date: Thu Oct 02 16:17:55 2003</p> <p>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51</p> <p>@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19</p> <p>Compiled on Aug 31 2003 at 08:10:54</p> <p>Operator: SN</p> <p>Host: McCloud</p>

Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001							
Number of drives 5, Drives: 6F 8A 90 1F 2B							
	Case	Cmd	Drv	Action	Stat	Cry	Count Cmd Name
	0	SWB-39	<03>	80	Allowed	0000	Off 1 WriteSectors
	1	SWB-39	<0B>	80	Allowed	0000	Off 1 WriteLong
	2	SWB-39	<43>	80	Allowed	0000	Off 1 ExtWrite
Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)							
	0	SWB-39	<03>	81	Allowed	0000	Off 1 WriteSectors
	1	SWB-39	<0B>	81	Allowed	0000	Off 1 WriteLong
	2	SWB-39	<43>	81	Allowed	0000	Off 1 ExtWrite
Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)							
	0	SWB-39	<03>	82	Blocked	0300	On 0 WriteSectors
	1	SWB-39	<0B>	82	Blocked	0300	On 0 WriteLong
	2	SWB-39	<43>	82	Blocked	0300	On 0 ExtWrite
Results for SWB-39 category w on drive 82 All commands blocked (3 of 3)							
	0	SWB-39	<03>	83	Blocked	0300	On 0 WriteSectors
	1	SWB-39	<0B>	83	Blocked	0300	On 0 WriteLong
	2	SWB-39	<43>	83	Blocked	0300	On 0 ExtWrite
Results for SWB-39 category w on drive 83 All commands blocked (3 of 3)							
	0	SWB-39	<03>	84	Blocked	0300	On 0 WriteSectors
	1	SWB-39	<0B>	84	Blocked	0300	On 0 WriteLong
	2	SWB-39	<43>	84	Blocked	0300	On 0 ExtWrite
Results for SWB-39 category w on drive 84 All commands blocked (3 of 3)							
Summary: 15 sent, 9 blocked, 6 not blocked							
Number of Commands not blocked (should total to 6)							
Drive	Count						
80	3						
81	3						
82	0						
83	0						
84	0						
***** Uninstall HDL Log *****							
HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001							
---- Royal Canadian Mounted Police ----							
UNAUTHORIZED USE / DISTRIBUTION PROHIBITED							
Licensee: U.S. DoC - NIST - Computer Forensic Tool Test							
5 Hard-Disks reported by Int_13h							
Write Block removed.							
***** Test Harness Log *****							
CMD: a:\TEST-HDL.EXE SWB-39 McCloud SN a 6F 8A 90 1F 2B							
Case: SWB-39							
Command set: All							
Date: Thu Oct 02 16:18:10 2003							
Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51							
@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19							
Compiled on Aug 31 2003 at 08:10:54							
Operator: SN							
Host: McCloud							
Number of drives 5, Drives: 6F 8A 90 1F 2B							
Warning: non-zero tally (3) for drive 80 (reboot to clear)							
Warning: non-zero tally (3) for drive 81 (reboot to clear)							
	Case	Cmd	Drv	Action	Stat	Cry	Count Cmd Name
	0	SWB-39	<00>	80	Allowed	0000	Off 1 Reset
	1	SWB-39	<0C>	80	Allowed	0000	Off 1 SeekDrive
	2	SWB-39	<0D>	80	Allowed	0000	Off 1 AltReset
	3	SWB-39	<11>	80	Allowed	0000	Off 1 Recalibrate
	4	SWB-39	<47>	80	Allowed	0000	Off 1 ExtendedSeek
Results for SWB-39 category c on drive 80 No commands blocked (0 of 5)							
	0	SWB-39	<00>	81	Allowed	0000	Off 1 Reset
	1	SWB-39	<0C>	81	Allowed	0000	Off 1 SeekDrive
	2	SWB-39	<0D>	81	Allowed	0000	Off 1 AltReset
	3	SWB-39	<11>	81	Allowed	0000	Off 1 Recalibrate
	4	SWB-39	<47>	81	Allowed	0000	Off 1 ExtendedSeek
Results for SWB-39 category c on drive 81 No commands blocked (0 of 5)							
	0	SWB-39	<00>	82	Allowed	0000	Off 1 Reset
	1	SWB-39	<0C>	82	Allowed	0000	Off 1 SeekDrive
	2	SWB-39	<0D>	82	Allowed	0000	Off 1 AltReset
	3	SWB-39	<11>	82	Allowed	0000	Off 1 Recalibrate
	4	SWB-39	<47>	82	Allowed	0000	Off 1 ExtendedSeek

Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	Results for SWB-39 category c on drive 82 No commands blocked (0 of 5)			
	0 SWB-39 <00>	83 Allowed 0000 Off	1	Reset
	1 SWB-39 <0C>	83 Allowed 0000 Off	1	SeekDrive
	2 SWB-39 <0D>	83 Allowed 0000 Off	1	AltReset
	3 SWB-39 <11>	83 Allowed 0000 Off	1	Recalibrate
	4 SWB-39 <47>	83 Allowed 0000 Off	1	ExtendedSeek
	Results for SWB-39 category c on drive 83 No commands blocked (0 of 5)			
	0 SWB-39 <00>	84 Allowed 0000 Off	1	Reset
	1 SWB-39 <0C>	84 Allowed 0000 Off	1	SeekDrive
	2 SWB-39 <0D>	84 Allowed 0000 Off	1	AltReset
	3 SWB-39 <11>	84 Allowed 0000 Off	1	Recalibrate
	4 SWB-39 <47>	84 Allowed 0000 Off	1	ExtendedSeek
	Results for SWB-39 category c on drive 84 No commands blocked (0 of 5)			
	Summary: 25 sent, 0 blocked, 25 not blocked			
	0 SWB-39 <01>	80 Allowed 0000 Off	1	GetLastStatus
	1 SWB-39 <04>	80 Allowed 0000 Off	1	VerifySectors
	2 SWB-39 <08>	80 Allowed 0000 Off	1	ReadDriveParms
	3 SWB-39 <10>	80 Allowed 0000 Off	1	TestDriveReady
	4 SWB-39 <15>	80 Allowed 0000 Off	1	ReadDriveType
	5 SWB-39 <41>	80 Allowed 0000 Off	1	CheckForExtensions
	6 SWB-39 <44>	80 Allowed 0000 Off	1	VerifySectors
	7 SWB-39 <48>	80 Allowed 0000 Off	1	GetDriveParms
	Results for SWB-39 category i on drive 80 No commands blocked (0 of 8)			
	0 SWB-39 <01>	81 Allowed 0000 Off	1	GetLastStatus
	1 SWB-39 <04>	81 Allowed 0000 Off	1	VerifySectors
	2 SWB-39 <08>	81 Allowed 0000 Off	1	ReadDriveParms
	3 SWB-39 <10>	81 Allowed 0000 Off	1	TestDriveReady
	4 SWB-39 <15>	81 Allowed 0000 Off	1	ReadDriveType
	5 SWB-39 <41>	81 Allowed 0000 Off	1	CheckForExtensions
	6 SWB-39 <44>	81 Allowed 0000 Off	1	VerifySectors
	7 SWB-39 <48>	81 Allowed 0000 Off	1	GetDriveParms
	Results for SWB-39 category i on drive 81 No commands blocked (0 of 8)			
	0 SWB-39 <01>	82 Allowed 0000 Off	1	GetLastStatus
	1 SWB-39 <04>	82 Allowed 0000 Off	1	VerifySectors
	2 SWB-39 <08>	82 Allowed 0000 Off	1	ReadDriveParms
	3 SWB-39 <10>	82 Allowed 0000 Off	1	TestDriveReady
	4 SWB-39 <15>	82 Allowed 0000 Off	1	ReadDriveType
	5 SWB-39 <41>	82 Allowed 0000 Off	1	CheckForExtensions
	6 SWB-39 <44>	82 Allowed 0000 Off	1	VerifySectors
	7 SWB-39 <48>	82 Allowed 0000 Off	1	GetDriveParms
	Results for SWB-39 category i on drive 82 No commands blocked (0 of 8)			
	0 SWB-39 <01>	83 Allowed 0000 Off	1	GetLastStatus
	1 SWB-39 <04>	83 Allowed 0000 Off	1	VerifySectors
	2 SWB-39 <08>	83 Allowed 0000 Off	1	ReadDriveParms
	3 SWB-39 <10>	83 Allowed 0000 Off	1	TestDriveReady
	4 SWB-39 <15>	83 Allowed 0000 Off	1	ReadDriveType
	5 SWB-39 <41>	83 Allowed 0000 Off	1	CheckForExtensions
	6 SWB-39 <44>	83 Allowed 0000 Off	1	VerifySectors
	7 SWB-39 <48>	83 Allowed 0000 Off	1	GetDriveParms
	Results for SWB-39 category i on drive 83 No commands blocked (0 of 8)			
	0 SWB-39 <01>	84 Allowed 0000 Off	1	GetLastStatus
	1 SWB-39 <04>	84 Allowed 0000 Off	1	VerifySectors
	2 SWB-39 <08>	84 Allowed 0000 Off	1	ReadDriveParms
	3 SWB-39 <10>	84 Allowed 0000 Off	1	TestDriveReady
	4 SWB-39 <15>	84 Allowed 0000 Off	1	ReadDriveType
	5 SWB-39 <41>	84 Allowed 0000 Off	1	CheckForExtensions
	6 SWB-39 <44>	84 Allowed 0000 Off	1	VerifySectors
	7 SWB-39 <48>	84 Allowed 0000 Off	1	GetDriveParms
	Results for SWB-39 category i on drive 84 No commands blocked (0 of 8)			
	Summary: 40 sent, 0 blocked, 40 not blocked			
	0 SWB-39 <02>	80 Allowed 0000 Off	1	ReadSectors
	1 SWB-39 <0A>	80 Allowed 0000 Off	1	ReadLong
	2 SWB-39 <42>	80 Allowed 0000 Off	1	ExtRead
	Results for SWB-39 category r on drive 80 No commands blocked (0 of 3)			
	0 SWB-39 <02>	81 Allowed 0000 Off	1	ReadSectors
	1 SWB-39 <0A>	81 Allowed 0000 Off	1	ReadLong
	2 SWB-39 <42>	81 Allowed 0000 Off	1	ExtRead
	Results for SWB-39 category r on drive 81 No commands blocked (0 of 3)			
	0 SWB-39 <02>	82 Allowed 0000 Off	1	ReadSectors
	1 SWB-39 <0A>	82 Allowed 0000 Off	1	ReadLong

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	2	SWB-39	<42>	82	Allowed	0000	Off	1	ExtRead
	Results for SWB-39 category r on drive 82 No commands blocked (0 of 3)								
	0	SWB-39	<02>	83	Allowed	0000	Off	1	ReadSectors
	1	SWB-39	<0A>	83	Allowed	0000	Off	1	ReadLong
	2	SWB-39	<42>	83	Allowed	0000	Off	1	ExtRead
	Results for SWB-39 category r on drive 83 No commands blocked (0 of 3)								
	0	SWB-39	<02>	84	Allowed	0000	Off	1	ReadSectors
	1	SWB-39	<0A>	84	Allowed	0000	Off	1	ReadLong
	2	SWB-39	<42>	84	Allowed	0000	Off	1	ExtRead
	Results for SWB-39 category r on drive 84 No commands blocked (0 of 3)								
	Summary: 15 sent, 0 blocked, 15 not blocked								
	0	SWB-39	<03>	80	Allowed	0000	Off	2	WriteSectors
	1	SWB-39	<0B>	80	Allowed	0000	Off	2	WriteLong
	2	SWB-39	<43>	80	Allowed	0000	Off	2	ExtWrite
	Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)								
	0	SWB-39	<03>	81	Allowed	0000	Off	2	WriteSectors
	1	SWB-39	<0B>	81	Allowed	0000	Off	2	WriteLong
	2	SWB-39	<43>	81	Allowed	0000	Off	2	ExtWrite
	Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)								
	0	SWB-39	<03>	82	Allowed	0000	Off	1	WriteSectors
	1	SWB-39	<0B>	82	Allowed	0000	Off	1	WriteLong
	2	SWB-39	<43>	82	Allowed	0000	Off	1	ExtWrite
	Results for SWB-39 category w on drive 82 No commands blocked (0 of 3)								
	0	SWB-39	<03>	83	Allowed	0000	Off	1	WriteSectors
	1	SWB-39	<0B>	83	Allowed	0000	Off	1	WriteLong
	2	SWB-39	<43>	83	Allowed	0000	Off	1	ExtWrite
	Results for SWB-39 category w on drive 83 No commands blocked (0 of 3)								
	0	SWB-39	<03>	84	Allowed	0000	Off	1	WriteSectors
	1	SWB-39	<0B>	84	Allowed	0000	Off	1	WriteLong
	2	SWB-39	<43>	84	Allowed	0000	Off	1	ExtWrite
	Results for SWB-39 category w on drive 84 No commands blocked (0 of 3)								
	Summary: 15 sent, 0 blocked, 15 not blocked								
	0	SWB-39	<05>	80	Allowed	0000	Off	1	FormatTrack
	1	SWB-39	<06>	80	Allowed	0000	Off	1	FormatBadSectors
	2	SWB-39	<07>	80	Allowed	0000	Off	1	FormatCyl
	3	SWB-39	<09>	80	Allowed	0000	Off	1	InitDriveParms
	4	SWB-39	<0E>	80	Allowed	0000	Off	1	DiagnosticESDI
	5	SWB-39	<0F>	80	Allowed	0000	Off	1	DiagnosticESDI
	6	SWB-39	<12>	80	Allowed	0000	Off	1	DiagnosticRAM
	7	SWB-39	<13>	80	Allowed	0000	Off	1	DiagnosticDrive
	8	SWB-39	<14>	80	Allowed	0000	Off	1	DiagnosticCTL
	Results for SWB-39 category x on drive 80 No commands blocked (0 of 9)								
	0	SWB-39	<05>	81	Allowed	0000	Off	1	FormatTrack
	1	SWB-39	<06>	81	Allowed	0000	Off	1	FormatBadSectors
	2	SWB-39	<07>	81	Allowed	0000	Off	1	FormatCyl
	3	SWB-39	<09>	81	Allowed	0000	Off	1	InitDriveParms
	4	SWB-39	<0E>	81	Allowed	0000	Off	1	DiagnosticESDI
	5	SWB-39	<0F>	81	Allowed	0000	Off	1	DiagnosticESDI
	6	SWB-39	<12>	81	Allowed	0000	Off	1	DiagnosticRAM
	7	SWB-39	<13>	81	Allowed	0000	Off	1	DiagnosticDrive
	8	SWB-39	<14>	81	Allowed	0000	Off	1	DiagnosticCTL
	Results for SWB-39 category x on drive 81 No commands blocked (0 of 9)								
	0	SWB-39	<05>	82	Allowed	0000	Off	1	FormatTrack
	1	SWB-39	<06>	82	Allowed	0000	Off	1	FormatBadSectors
	2	SWB-39	<07>	82	Allowed	0000	Off	1	FormatCyl
	3	SWB-39	<09>	82	Allowed	0000	Off	1	InitDriveParms
	4	SWB-39	<0E>	82	Allowed	0000	Off	1	DiagnosticESDI
	5	SWB-39	<0F>	82	Allowed	0000	Off	1	DiagnosticESDI
	6	SWB-39	<12>	82	Allowed	0000	Off	1	DiagnosticRAM
	7	SWB-39	<13>	82	Allowed	0000	Off	1	DiagnosticDrive
	8	SWB-39	<14>	82	Allowed	0000	Off	1	DiagnosticCTL
	Results for SWB-39 category x on drive 82 No commands blocked (0 of 9)								
	0	SWB-39	<05>	83	Allowed	0000	Off	1	FormatTrack
	1	SWB-39	<06>	83	Allowed	0000	Off	1	FormatBadSectors
	2	SWB-39	<07>	83	Allowed	0000	Off	1	FormatCyl
	3	SWB-39	<09>	83	Allowed	0000	Off	1	InitDriveParms
	4	SWB-39	<0E>	83	Allowed	0000	Off	1	DiagnosticESDI
	5	SWB-39	<0F>	83	Allowed	0000	Off	1	DiagnosticESDI
	6	SWB-39	<12>	83	Allowed	0000	Off	1	DiagnosticRAM
	7	SWB-39	<13>	83	Allowed	0000	Off	1	DiagnosticDrive

Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001									
	8	SWB-39	<14>	83	Allowed	0000	Off	1	DiagnosticCTL
Results for SWB-39 category x on drive 83 No commands blocked (0 of 9)									
0	SWB-39	<05>	84	Allowed	0000	Off	1	FormatTrack	
1	SWB-39	<06>	84	Allowed	0000	Off	1	FormatBadSectors	
2	SWB-39	<07>	84	Allowed	0000	Off	1	FormatCyl	
3	SWB-39	<09>	84	Allowed	0000	Off	1	InitDriveParms	
4	SWB-39	<0E>	84	Allowed	0000	Off	1	DiagnosticESDI	
5	SWB-39	<0F>	84	Allowed	0000	Off	1	DiagnosticESDI	
6	SWB-39	<12>	84	Allowed	0000	Off	1	DiagnosticRAM	
7	SWB-39	<13>	84	Allowed	0000	Off	1	DiagnosticDrive	
8	SWB-39	<14>	84	Allowed	0000	Off	1	DiagnosticCTL	
Results for SWB-39 category x on drive 84 No commands blocked (0 of 9)									
Summary: 45 sent, 0 blocked, 45 not blocked									
0	SWB-39	<16>	80	Allowed	0000	Off	1	Undefined	
...									
misc commands 17-FD results omitted									
see log files for full results									
...									
226	SWB-39	<FE>	80	Allowed	0000	Off	1	Undefined	
227	SWB-39	<FF>	80	Allowed	0000	Off	1	Undefined	
Results for SWB-39 category m on drive 80 No commands blocked (0 of 228)									
0	SWB-39	<16>	81	Allowed	0000	Off	1	Undefined	
...									
misc commands 17-FD results omitted									
see log files for full results									
...									
226	SWB-39	<FE>	81	Allowed	0000	Off	1	Undefined	
227	SWB-39	<FF>	81	Allowed	0000	Off	1	Undefined	
Results for SWB-39 category m on drive 81 No commands blocked (0 of 228)									
0	SWB-39	<16>	82	Allowed	0000	Off	1	Undefined	
...									
misc commands 17-FD results omitted									
see log files for full results									
...									
226	SWB-39	<FE>	82	Allowed	0000	Off	1	Undefined	
227	SWB-39	<FF>	82	Allowed	0000	Off	1	Undefined	
Results for SWB-39 category m on drive 82 No commands blocked (0 of 228)									
0	SWB-39	<16>	83	Allowed	0000	Off	1	Undefined	
...									
misc commands 17-FD results omitted									
see log files for full results									
...									
226	SWB-39	<FE>	83	Allowed	0000	Off	1	Undefined	
227	SWB-39	<FF>	83	Allowed	0000	Off	1	Undefined	
Results for SWB-39 category m on drive 83 No commands blocked (0 of 228)									
0	SWB-39	<16>	84	Allowed	0000	Off	1	Undefined	
...									
misc commands 17-FD results omitted									
see log files for full results									
...									
226	SWB-39	<FE>	84	Allowed	0000	Off	1	Undefined	

Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	227 SWB-39 <FF> 84 Allowed 0000 Off 1 Undefined Results for SWB-39 category m on drive 84 No commands blocked (0 of 228) Summary: 1140 sent, 0 blocked, 1140 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-11	0 Commands return fail	0 Commands return fail
	AO-09	SWB removed	Write Block removed.
Analysis:	SWB-39 Expected results achieved		

Case SWB-40 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-40 Install all drives, configure return code to success, protect with pattern low, execute write commands, uninstall, execute all commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-09. If the tool is active and the tool is then uninstalled then no commands to any drive shall be blocked.
Tester Name:	JRL
Test Date:	Fri Oct 03 09:32:16 2003
Test PC:	Cadfael
Test Software:	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC Windows 98 [Version 4.10.2222] tally13 hdl7 S01 test-hdl SWB-40 Cadfael JRL w 6F 8A 1F 2B t-off SWB-40 Cadfael JRL hdl7 R test-hdl SWB-40 Cadfael JRL a 6F 8A 1F 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/03/03 at 09:31:51) Going . . . TSR ***** Install HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Not Locked! Hard-Disk 3 Not Locked! Write Block successfully installed. ***** Blocked Write Commands ***** CMD: a:\TEST-HDL.EXE SWB-40 Cadfael JRL w 6F 8A 1F 2B Case: SWB-40

Case SWB-40 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001								
Command set: Write Date: Fri Oct 03 09:31:59 2003 Version: @(#) test-hdl.cpp Version 1.2 Created 08/04/03 at 13:14:13 @(#) wb-defs.h Version 1.2 Created 08/04/03 at 11:22:15 Compiled on Aug 4 2003 at 12:56:31 Operator: JRL Host: Cadfael Number of drives 4, Drives: 6F 8A 1F 2B								
	Case	Cmd	Drive	Action	Status	Carry	Count	Cmd Name
0	SWB-40	03	80	Blocked	0000	Off	0	WriteSectors
1	SWB-40	0B	80	Blocked	0000	Off	0	WriteLong
2	SWB-40	43	80	Blocked	0000	Off	0	ExtWrite
3	SWB-40	21	80	Blocked	0000	Off	0	WriteBlocks
4	SWB-40	05	80	Blocked	0000	Off	0	FormatTrack
5	SWB-40	06	80	Blocked	0000	Off	0	FormatBadSectors
6	SWB-40	07	80	Blocked	0000	Off	0	FormatCyl
7	SWB-40	0E	80	Allowed	0000	Off	1	DiagnosticESDI
8	SWB-40	0F	80	Blocked	0000	Off	0	DiagnosticESDI
9	SWB-40	12	80	Blocked	0000	Off	0	DiagnosticRAM
10	SWB-40	13	80	Blocked	0000	Off	0	DiagnosticDrive
11	SWB-40	14	80	Blocked	0000	Off	0	DiagnosticCTL
12	SWB-40	1A	80	Blocked	0000	Off	0	FormatDriveESDI
Results for SWB-40 category w on drive 80 Not all commands blocked (12 of 13)								
0	SWB-40	03	81	Blocked	0000	Off	0	WriteSectors
1	SWB-40	0B	81	Blocked	0000	Off	0	WriteLong
2	SWB-40	43	81	Blocked	0000	Off	0	ExtWrite
3	SWB-40	21	81	Blocked	0000	Off	0	WriteBlocks
4	SWB-40	05	81	Blocked	0000	Off	0	FormatTrack
5	SWB-40	06	81	Blocked	0000	Off	0	FormatBadSectors
6	SWB-40	07	81	Blocked	0000	Off	0	FormatCyl
7	SWB-40	0E	81	Allowed	0000	Off	1	DiagnosticESDI
8	SWB-40	0F	81	Blocked	0000	Off	0	DiagnosticESDI
9	SWB-40	12	81	Blocked	0000	Off	0	DiagnosticRAM
10	SWB-40	13	81	Blocked	0000	Off	0	DiagnosticDrive
11	SWB-40	14	81	Blocked	0000	Off	0	DiagnosticCTL
12	SWB-40	1A	81	Blocked	0000	Off	0	FormatDriveESDI
Results for SWB-40 category w on drive 81 Not all commands blocked (12 of 13)								
0	SWB-40	03	82	Allowed	0000	Off	1	WriteSectors
1	SWB-40	0B	82	Allowed	0000	Off	1	WriteLong
2	SWB-40	43	82	Allowed	0000	Off	1	ExtWrite
3	SWB-40	21	82	Allowed	0000	Off	1	WriteBlocks
4	SWB-40	05	82	Allowed	0000	Off	1	FormatTrack
5	SWB-40	06	82	Allowed	0000	Off	1	FormatBadSectors
6	SWB-40	07	82	Allowed	0000	Off	1	FormatCyl
7	SWB-40	0E	82	Allowed	0000	Off	1	DiagnosticESDI
8	SWB-40	0F	82	Allowed	0000	Off	1	DiagnosticESDI
9	SWB-40	12	82	Allowed	0000	Off	1	DiagnosticRAM
10	SWB-40	13	82	Allowed	0000	Off	1	DiagnosticDrive
11	SWB-40	14	82	Allowed	0000	Off	1	DiagnosticCTL
12	SWB-40	1A	82	Allowed	0000	Off	1	FormatDriveESDI
Results for SWB-40 category w on drive 82 No commands blocked (0 of 13)								
0	SWB-40	03	83	Allowed	0000	Off	1	WriteSectors
1	SWB-40	0B	83	Allowed	0000	Off	1	WriteLong
2	SWB-40	43	83	Allowed	0000	Off	1	ExtWrite
3	SWB-40	21	83	Allowed	0000	Off	1	WriteBlocks
4	SWB-40	05	83	Allowed	0000	Off	1	FormatTrack
5	SWB-40	06	83	Allowed	0000	Off	1	FormatBadSectors
6	SWB-40	07	83	Allowed	0000	Off	1	FormatCyl
7	SWB-40	0E	83	Allowed	0000	Off	1	DiagnosticESDI
8	SWB-40	0F	83	Allowed	0000	Off	1	DiagnosticESDI
9	SWB-40	12	83	Allowed	0000	Off	1	DiagnosticRAM
10	SWB-40	13	83	Allowed	0000	Off	1	DiagnosticDrive
11	SWB-40	14	83	Allowed	0000	Off	1	DiagnosticCTL
12	SWB-40	1A	83	Allowed	0000	Off	1	FormatDriveESDI
Results for SWB-40 category w on drive 83 No commands blocked (0 of 13)								
Summary: 52 sent, 24 blocked, 28 not blocked								
Number of Commands not blocked (should total to 28)								

Case SWB-40 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
	<pre> Drive Count 80 1 81 1 82 13 83 13 ***** Uninstall HDL Log ***** HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 ---- Royal Canadian Mounted Police ---- UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 4 Hard-Disks reported by Int_13h Write Block now non-removable! ***** Test Harness Log ***** CMD: a:\TEST-HDL.EXE SWB-40 Cadfael JRL a 6F 8A 1F 2B Case: SWB-40 Command set: All Date: Fri Oct 03 09:32:16 2003 Version: @(#) test-hdl.cpp Version 1.2 Created 08/04/03 at 13:14:13 @(#) wb-defs.h Version 1.2 Created 08/04/03 at 11:22:15 Compiled on Aug 4 2003 at 12:56:31 Operator: JRL Host: Cadfael Number of drives 4, Drives: 6F 8A 1F 2B Warning: non-zero tally (1) for drive 80 (reboot to clear) Warning: non-zero tally (1) for drive 81 (reboot to clear) Warning: non-zero tally (13) for drive 82 (reboot to clear) Warning: non-zero tally (13) for drive 83 (reboot to clear) Case Cmd Drive Action Status Carry Count Cmd Name Results for SWB-40 category c on drive 80 Not all commands blocked (1 of 5) Results for SWB-40 category c on drive 81 Not all commands blocked (1 of 5) Results for SWB-40 category c on drive 82 No commands blocked (0 of 5) Results for SWB-40 category c on drive 83 No commands blocked (0 of 5) Summary: 20 sent, 2 blocked, 18 not blocked Results for SWB-40 category i on drive 80 Not all commands blocked (1 of 9) Results for SWB-40 category i on drive 81 Not all commands blocked (1 of 9) Results for SWB-40 category i on drive 82 No commands blocked (0 of 9) Results for SWB-40 category i on drive 83 No commands blocked (0 of 9) Summary: 36 sent, 2 blocked, 34 not blocked Results for SWB-40 category r on drive 80 Not all commands blocked (1 of 4) Results for SWB-40 category r on drive 81 Not all commands blocked (1 of 4) Results for SWB-40 category r on drive 82 No commands blocked (0 of 4) Results for SWB-40 category r on drive 83 No commands blocked (0 of 4) Summary: 16 sent, 2 blocked, 14 not blocked Results for SWB-40 category w on drive 80 Not all commands blocked (12 of 13) Results for SWB-40 category w on drive 81 Not all commands blocked (12 of 13) Results for SWB-40 category w on drive 82 No commands blocked (0 of 13) Results for SWB-40 category w on drive 83 No commands blocked (0 of 13) Summary: 52 sent, 24 blocked, 28 not blocked Results for SWB-40 category x on drive 80 Not all commands blocked (8 of 9) Results for SWB-40 category x on drive 81 Not all commands blocked (8 of 9) Results for SWB-40 category x on drive 82 No commands blocked (0 of 9) Results for SWB-40 category x on drive 83 No commands blocked (0 of 9) Summary: 36 sent, 16 blocked, 20 not blocked Results for SWB-40 category m on drive 80 All commands blocked (225 of 225) </pre>

Case SWB-40 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Results for SWB-40 category m on drive 81 All commands blocked (225 of 225) Results for SWB-40 category m on drive 82 No commands blocked (0 of 225) Results for SWB-40 category m on drive 83 No commands blocked (0 of 225) Summary: 900 sent, 450 blocked, 450 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-10	496 Commands return success	496 Commands return success
	AO-09	SWB not removed	Write Block now non-removable!
Analysis:	SWB-40 Expected results achieved		

About the National Institute of Justice

NIJ is the research, development, and evaluation agency of the U.S. Department of Justice. The Institute provides objective, independent, evidence-based knowledge and tools to enhance the administration of justice and public safety. NIJ's principal authorities are derived from the Omnibus Crime Control and Safe Streets Act of 1968, as amended (see 42 U.S.C. §§ 3721–3723).

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

Strategic Goals

NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

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

Dissemination

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

Agency management

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

Program Areas

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

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

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