

	NIJ
Special	REPORT
Test Results for Software Write Block Tools: BCMP H	DL VO 7

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

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AUG. 04 **Test Results for Software Write Block Tools: RCMP HDL VO.7** NCJ 206233



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Director

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

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 accessability 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 accessability 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 accessability 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 SHA1 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
	3 S 000000063 000208782 83 Linux
	4 x 000208845 000144585 05 extended
	5 S 000000063 000144522
	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 Partit	ion type
	L P 000000063 006152832 Boot 0B Fat	32
	2 X 008193150 009735390	ended
	$3 \ { m S} \ { m O} \ { m Emp}$	ty entry
	$4 \times 002056320 \ 001237005 \ 05 \ ext$	ended
	5 S 000000063 001236942 07 NTF	S
	$5 \times 005349645 \ 001638630 \ 05 \ \text{ext}$	ended
	7 S 000000063 001638567 17 oth	er
	$3 \times 008498385 \ 001237005 \ 05 \ ext$	ended
	9 S 000000063 001236942 1B oth	er
F6	N Start LBA Length boot Partit	ion type
	L P 000000063 006152832 Boot 0B Fat	32
	2 X 008193150 031985415	ended
	3 S 000000000 000000000 00 emp	ty entry
	$4 \times 002056320 \ 001237005 \ 05 \ ext$	ended
	5 S 000000063 001236942 07 NTF	S
	$5 \times 005349645 \ 001638630 \ 05 \ \text{ext}$	ended
	7 S 000000063 001638567 17 oth	er
	$3 \times 030748410 \ 001237005 \ 05 \ ext$	ended
	9 S 000000063 001236942 1B oth	er

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
	The software write block tool to be tested.
SWB Tool	
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 0n.

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 a 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 Software Write Block Tool Specification &
	Test Plan Version 3.0.
Assertions tested	The test assertions tested by the test case from <i>Software Write Block</i>
	Tool Specification & Test Plan Version 3.0.
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
Log Eile Highlighter	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
	Monitor Execution. The log file created for HDL is labeled Install
	HDL Log. The log file created by TEST-HDL is labeled Histali
	Harness Log.
	Harness Log.
	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.
	TIDE twice.
	The Monitor Execution log file records the program version and the

Heading	Description
	date that the TALLY13 program was executed.
	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.
	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:
	 Command line. The command line used to execute TEST-HDL. This line begins with the string CMD. 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.
	The next two items are repeated for each installed drive.
	 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). 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	SWB-AM-01. If a drive is protected and a command from the write category
Tested:	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 15:22:09 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 01234
	test-hdl SWB-01 McCloud SN w 6F 8A 90 1F 2b
	Shutdown Test PC
Log File	**** Monitor Execution ****
-	
Highlights:	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 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
l	2 SWB-01 <43> 80 Blocked 0300 On
I	
	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 <08> 81 Blocked 0300 On 0 WriteLong

Case SWB-01 HD	L Int_13 Ha	ard 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
		SWB-01 category w on drive 82	All commands blocked (3 of 3)
			WriteSectors
	1 SWB-01	<0B> 83 Blocked 0300 On 0	WriteLong
		<43> 83 Blocked 0300 On 0	
		SWB-01 category w on drive 83	
			WriteSectors
		<0B> 84 Blocked 0300 On 0	5
		<43> 84 Blocked 0300 On 0	
		SWB-01 category w on drive 84	
	Summary: 15	sent, 15 blocked, 0 not blocked	ed
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-01	Expected Results All cmds to drive 80 blocked	
Results:		_	
Results:	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
Results:	AM-01 AM-01	All cmds to drive 80 blocked All cmds to drive 81 blocked	All cmds to drive 80 blocked All cmds to drive 81 blocked
Results:	AM-01 AM-01 AM-01	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked
Results:	AM-01 AM-01 AM-01 AM-01	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked
Results:	AM-01 AM-01 AM-01 AM-01 AM-01	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07 AM-08	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07 AM-08 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07 AM-08 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07 AM-08 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected
Results:	AM-01 AM-01 AM-01 AM-01 AM-01 AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected

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	SWB-AM-01. If a drive is protected and a command from the write category
Tested:	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	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors
Used:	Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 s01
	test-hdl SWB-02 HecRamsey SN w 64 E4
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	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	2 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
Case SWB-02 HDL	Licer 2 Ha Hard- Hard- Write ***** Test I CMD: A:\TEST Case: SWB-O2 Command set: Date: Thu Oc Version: @(#) Comp Operator: SI Host: HecRar Number of dr Case (0 SWB-O2 2 SWB-O2 2 SWB-O2 Results for 0 SWB-O2 1 SWB-O2	nsee: U.S. DOC - NIST - Computer and Disks reported by Int_13h Disk 0	er Forensic Tool Test . w 64 E4 eated 08/23/03 at 10:13:51 . 08/31/03 at 08:18:19 4 Cmd Name WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWriteAll commands blocked (3 of 3)
		SWB-02 category w on drive 81 sent, 6 blocked, 0 not blocked	All commands blocked (3 of 3)
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 Exped	cted 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 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
	HDL Int_1	ll HDL Log ***** 13 Hard Disk Write Lock V0.7 (Royal Canadian Mounted Po THORIZED USE / DISTRIBUTION	olice
	1 Hard-Write ***** Test I CMD: A:\TEST Case: SWB-01 Command set		ı.
	@(#)		d 08/31/03 at 08:18:19
Decile	Case (0 SWB-03 (1 SWB-03 (2 SWB-03 (3 SWB-03 (4 SWB-03 (5 SWB-03 (6 SWB-03 (7 SWB-03 (8 SWB-03 (8 SWB-03 (Results for (9)) Summary: 9 s	<pre>606> 80 Blocked 0300 On 607> 80 Blocked 0300 On 609> 80 Allowed 0000 Off 60E> 80 Allowed 0000 Off 60E> 80 Blocked 0300 On 612> 80 Blocked 0300 On 612> 80 Blocked 0300 On 613> 80 Blocked 0300 On 614> 80 Blocked 0300 On 615> 80 Blocked 0300 On 616</pre> 616> 80 Blocked 0300 On 617618> 80 Blocked 0300 On 618> 80 Blocked 0300 On 619 <th>FormatTrack FormatBadSectors FormatCyl InitDriveParms DiagnosticESDI DiagnosticESDI DiagnosticRAM DiagnosticDrive DiagnosticCTL Not all commands blocked (7 of</th>	FormatTrack FormatBadSectors FormatCyl InitDriveParms DiagnosticESDI DiagnosticESDI DiagnosticRAM DiagnosticDrive DiagnosticCTL Not all commands blocked (7 of
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 Expe	cted 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	SWB-AM-02. If a drive is protected and a command from the configuration
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 15:50:21 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
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

```
Case SWB-04 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
Commands
executed:
                tally13
                hdl7 S01234
                test-hdl SWB-04 McCloud SN x 6F 8A 90 1F 2B
                Shutdown Test PC
                ***** Monitor Execution *****
Log File
Highlights:
                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 \text{ 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
                                                       0 FormatBadSectors
                  1 SWB-04 <06> 80 Blocked 0000 Off
                  2 SWB-04 <07> 80 Blocked 0000 Off
                                                       0 FormatCvl
                  3 SWB-04 <09> 80 Allowed 0000 Off
                                                        1 Init.DriveParms
                  4 SWB-04 <0E> 80 Allowed 0000 Off
                                                      1 DiagnosticESDI
                  5 SWB-04 <OF> 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
                                                          DiagnosticESDI
                                                        0 DiagnosticRAM
                  6 SWB-04 <12> 81 Blocked 0000 Off
                  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 FormatCvl
                  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
                  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
```

Case SWB-04 HD	L Int_13 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
	3 SWB-04	<09> 83 Allowed 0000 Off	l InitDriveParms
	4 SWB-04	<0E> 83 Allowed 0000 Off	l DiagnosticESDI
	5 SWB-04	<of> 83 Blocked 0000 Off</of>	DiagnosticESDI
	6 SWB-04	<12> 83 Blocked 0000 Off	DiagnosticRAM
	7 SWB-04	<13> 83 Blocked 0000 Off	DiagnosticDrive
	8 SWB-04	<14> 83 Blocked 0000 Off) DiagnosticCTL
	Results for 9)	SWB-04 category x on drive 8	3 Not all commands blocked (7 of
	0 SWB-04	<05> 84 Blocked 0000 Off) FormatTrack
	1 SWB-04	<06> 84 Blocked 0000 Off) FormatBadSectors
	2 SWB-04	<07> 84 Blocked 0000 Off) FormatCyl
	3 SWB-04	<09> 84 Allowed 0000 Off	l InitDriveParms
	4 SWB-04	<oe> 84 Allowed 0000 Off</oe>	l DiagnosticESDI
	5 SWB-04	<of> 84 Blocked 0000 Off</of>	DiagnosticESDI
	6 SWB-04	<12> 84 Blocked 0000 Off	DiagnosticRAM
	7 SWB-04	<13> 84 Blocked 0000 Off	DiagnosticDrive
	8 SWB-04	<14> 84 Blocked 0000 Off	DiagnosticCTL
	Results for	SWB-04 category x on drive 8	4 Not all commands blocked (7 of
	9)		
	Danimar y 15	sent, 35 blocked, 10 not blocked	51104
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-02	Expected Results All cmds to drive 80 blocked	Actual Results Not all cmds to drive 80 blocked
Results:	AM-02	All cmds to drive 80	Not all cmds to drive 80
Results:		All cmds to drive 80 blocked	Not all cmds to drive 80 blocked
Results:	AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked
Results:	AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82
Results:	AM-02 AM-02 AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked
Results:	AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82
Results:	AM-02 AM-02 AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked
Results:	AM-02 AM-02 AM-02 AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 83 blocked All cmds to drive 84	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84
Results:	AM-02 AM-02 AM-02 AM-02 AM-02	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-07	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-07 AM-08	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-08 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected Drive 84 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected Drive 84 is protected
Results:	AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09 AM-09 AM-09	All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83 blocked All cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked Not all cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected

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	SWB-AM-03. If a drive is protected and a command from the miscellaneous
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-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	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors
Used:	Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 01
	test-hdl SWB-05 HecRamsey SN m 64 E4
	Shutdown Test PC

Case SWB-05 HDI	Int_13 Hard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
Log File	***** Monitor Execution *****	
Highlights:	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	
	Now (10/02/03 at 14:48:04) Going TS	2
	***** Install HDL Log *****	
	HDL Int_13 Hard Disk Write Lock V0.7 01	
	Royal Canadian Mounted Pol	
	UNAUTHORIZED USE / DISTRIBUTION P	ROHIBITED
	Licensee: U.S. DoC - NIST - Compute:	r Forongia Tool Toat
	2 Hard-Disks reported by Int_13h	rolensic foot fest
	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 Cre	
	@(#) wb-defs.h Version 1.2 Created	
	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	md Name
	0 SWB-05 <16> 80 Blocked 0300 On 0	
		Silder Filed
	misc commands 17-FD results omitte	ed
	see log files for full results	
	• • • •	
	226 CMD_05 < FE> 90 Ploaked 0200 On 0 1	Indofinad
	226 SWB-05 <fe> 80 Blocked 0300 On 0 1 227 SWB-05 <ff> 80 Blocked 0300 On 0 1</ff></fe>	Indefined
	Results for SWB-05 category m on drive 80	
	228)	111 00
	0 SWB-05 <16> 81 Blocked 0300 On 0	Undefined
	misc commands 17-FD results omitte	ed
	see log files for full results	
	• • •	
	226 CMD OF ARE 91 Disabled 0200 On 0.1	Undefined
	226 SWB-05 <fe> 81 Blocked 0300 On 0 1 227 SWB-05 <ff> 81 Blocked 0300 On 0 1</ff></fe>	
	Results for SWB-05 category m on drive 81	
	228)	50
	Summary: 456 sent, 456 blocked, 0 not block	ced
Results:	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	
	the command.	
	SWB-AM-07. If the tool is executed then the	ne tool shall issue a message
	indicating that the tool is active. SWB-AM-08. If the tool is executed then the	he tool shall issue a message
	indicating all drives accessible by t	
	SWB-AM-09. If the tool is executed then the	
	indicating the protection status of e	ach drive attached to a covered
	interface.	
	SWB-AM-10. If the tool is configured to recommands and the tool blocks a comman	
	indicate successful command execution	
Tester Name:	SN	
Test Date:	Thu Oct 02 14:34:53 2003	
Test PC:	HecRamsey	
Test Software:	SWBT 1.0	mx0007 1702000F
Hard Drives Used:	Drive 80, label E4 is a QUANTUM ATLAS10K2	-TYU92J with 17938985 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Ver	sion 4.10.22221
executed:	tally13	1,10,1222,
	hdl7 S0	
	test-hdl SWB-06 HecRamsey SN m E4	
T	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 07:2	8:05
	Now (10/02/03 at 14:34:46) Going To	SR
	***** Install HDL Log *****	
	HDL Int_13 Hard Disk Write Lock V0.7 0	
	UNAUTHORIZED USE / DISTRIBUTION	
	ONLOTHORIBED OUR / DIGINIBOTION	TROMIDITED
	Licensee: U.S. DoC - NIST - Comput	er 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 1	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 omit	ted
	see log files for full results	
	see log liles for full results	
	226 SWB-06 <fe> 80 Blocked 0000 Off 0 227 SWB-06 <ff> 80 Blocked 0000 Off 0</ff></fe>	Undefined
	Results for SWB-06 category m on drive 80 228)	All commands blocked (228 of
	Summary: 228 sent, 228 blocked, 0 not blocked	cked
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 AM-09 Drive 80 is protected	1 drives identified
	AM-09 Drive 80 is protected AM-10 228 Commands return success	Drive 80 is protected 228 Commands return success
		I COULT DUCCEDO

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	SWB-AM-04. If a drive is protected and a command from the read category
Tested:	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 15:28:11 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 01234 test-hdl SWB-07 McCloud SN r 6F 8A 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	Monitor BIOS interrupt 13h (disk service)
55	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now $(10/02/03 \text{ at } 15:28:03)$ 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
	Date: Ina Oct 02 13:20:11 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 <02> 81 Allowed 0000 Off 1 ReadSectors
	2 SWB-07 <42> 81 Allowed 0000 Off 1 ExtRead
	2 505 0, 127 OI ATTOWCK 0000 OII I EACKERK

Case SWB-07 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	LO (c)RCMP 1993-2001	
	Results for	SWB-07 category r on drive 83	1 No commands blocked (0 of 3)	
			1 ReadSectors	
		<0A> 82 Allowed 0000 Off	3	
			1 ExtRead	
			2 No commands blocked (0 of 3)	
			1 ReadSectors	
		<0A> 83 Allowed 0000 Off	3	
		<42> 83 Allowed 0000 Off		
			3 No commands blocked (0 of 3)	
		<02> 84 Allowed 0000 Off		
		<0A> 84 Allowed 0000 Off		
			1 ExtRead	
			4 No commands blocked (0 of 3)	
	Summary: 15	sent, 0 blocked, 15 not block	kea	
Results:	Assertion	Expected Results	Actual Results	
Results:	Assertion AM-04	Expected Results No cmds to drive 80 blocked	Actual Results No cmds to drive 80 blocked	
Results:				
Results:	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked	
Results:	AM-04 AM-04	No cmds to drive 80 blocked No cmds to drive 81 blocked	No cmds to drive 80 blocked No cmds to drive 81 blocked	
Results:	AM-04 AM-04 AM-04	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked	
Results:	AM-04 AM-04 AM-04 AM-04	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked	
Results:	AM-04 AM-04 AM-04 AM-04 AM-04	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked	
Results:	AM-04 AM-04 AM-04 AM-04 AM-04 AM-07	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message	
Results:	AM-04 AM-04 AM-04 AM-04 AM-04 AM-07 AM-08	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified	
Results:	AM-04 AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected	
Results:	AM-04 AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09 AM-09	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	
Results:	AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09 AM-09 AM-09	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	
Results:	AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	No cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	

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	SWB-AM-04. If a drive is protected and a command from the read category		
Tested:	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 14:50:56 2003		
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors		
Used:	Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors		
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
executed:	tally13		
	hdl7 S01		
	test-hdl SWB-08 HecRamsey SN r 64 E4		
	Shutdown Test PC		
Log File	**** Monitor Execution ****		
Highlights:	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 14:50:50) 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		

Case SWB-08 HDL	se SWB-08 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
Case SWB-08 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001 2 Hard-Disks reported by Int_13h		reated 08/23/03 at 10:13:51 d 08/31/03 at 08:18:19 54 C Cmd Name ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ReadSectors ReadLong ReadLong
Results:	Assertion	Expected Results	Actual Results
REBUILED.	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AM-04 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:	1	cted results achieved	o communica recurri buccess
marysis.	DWD 00 EVDE	cca resures actived	

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:	 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-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 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:	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
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 14:38:25) Going TSR ***** Install HDL Log *****

Case SWB-09 HDL	Int_13 Ha	rd Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
		13 Hard Disk Write Lock V0.7	
	Royal Canadian Mounted Polic		olice
	UNAU'	THORIZED USE / DISTRIBUTION PROHIBITED	
		nsee: U.S. DoC - NIST - Compu	
		ard-Disks reported by Int_13h	
		-Disk 0 Locked!	_
		Block successfully installe	d.
		Harness Log ****	
	CMD: A:\TES	T-HDL.EXE SWB-09 HecRamsey SN	1 E4
		: Information et 02 14:38:32 2003	
	Date. IIIU 00	JC UZ 14·30·3Z ZUU3	
	Version: @(#	t) test-hdl.cpp Version 1.1 C	reated 08/23/03 at 10:13:51
		wb-defs.h Version 1.2 Create	
	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		
		<pre><01> 80 Allowed 0000 Off</pre>	1 GetLastStatus
			1 VerifySectors
	2 SWB-09 4	<pre><08> 80 Allowed 0000 Off</pre>	1 ReadDriveParms
	4 SWB-09 4		0 ReadDriveType
	5 SWB-09 <		1 CheckForExtensions
			1 VerifySectors
			1 GetDriveParms
		SWB-09 category 1 on drive 8	0 Not all commands blocked (1 of
	8)	sent, 1 blocked, 7 not blocke	d
	Summary. 6 s	sent, i blocked, / not blocke	u
Results:	Assertion	Expected Results	Actual Results
	AM-06	No cmds to drive 80	Not all cmds to drive 80
		blocked	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 Exped	cted 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	SWB-AM-06. If a drive is protected and a command from the information
Tested:	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 S
Test Date:	Thu Oct 02 15:31:24 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13

Case SWB-10 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
0000 0110 10 1101	hdl7 S01234
	test-hdl SWB-10 McCloud SN i 6F 8A 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	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
	ONAUTHORIZED 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 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 Dry Action Stat Cry Count Cmd Name
	0 SWB-10 <01> 80 Allowed 0000 Off 1 GetLastStatus
	2 SWB-10 <08> 80 Allowed 0000 Off 1 ReadDriveParms
	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 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

CODE DMD-IO UDD	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	Results for	SWB-10 category i on drive 8	3 Not all commands blocked (1 of
	8)		
	0 SWB-10	<01> 84 Allowed 0000 Off	1 GetLastStatus
			1 VerifySectors
			1 ReadDriveParms
	3 SWB-10		1 TestDriveReady
	4 SWB-10	<15> 84 Blocked 0000 Off	<pre>0 ReadDriveType</pre>
	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
		SWB-10 category i on drive 8	4 Not all commands blocked (1 of
	8)		
	Summary: 40	sent, 5 blocked, 35 not bloc	ked
			T
Results:	Assertion	Expected Results	Actual Results
	AM-06	No cmds to drive 80	Not all cmds to drive 80
		blocked	blocked
	AM-06	No cmds to drive 81	Not all cmds to drive 81
		blocked	blocked
	AM-06	No cmds to drive 82	Not all cmds to drive 82
		blocked	blocked
	AM-06	No cmds to drive 83	Not all cmds to drive 83
		blocked	blocked
	AM-06	No cmds to drive 84	Not all cmds to drive 84
		blocked	
		Dioched	blocked
	AM-07	Tool active message	blocked Tool active message
	AM-07 AM-08		
		Tool active message	Tool active message
	AM-08	Tool active message 5 drives identified	Tool active message 5 drives identified
	AM-08 AM-09	Tool active message 5 drives identified Drive 80 is protected	Tool active message 5 drives identified Drive 80 is protected
	AM-08 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected
	AM-08 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected
	AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is protected

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	SWB-AM-05. If a drive is protected and a command from the control
Tested:	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	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors
Used:	Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 01
	test-hdl SWB-11 HecRamsey SN c 64 E4
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	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 Ha	rd Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	Royal Canadian Mounted Police		
	UNAU'	THORIZED USE / DISTRIBUTION	PROHIBITED
	Licer 2 Hard Hard Hard Write ***** Test I CMD: A:\TES Case: SWB-11 Command set Date: Thu Oc Version: @(#) Comp Operator: SI Host: HecRar Number of da Case (0 SWB-11 1 SWB-11 2 SWB-11 4 SWB-11 4 SWB-11 Results for 5) 0 SWB-11 1 SWB-11 2 SWB-11 3 SWB-11 4 SWB-11 3 SWB-11	nsee: U.S. DoC - NIST - Computant-Disks reported by Int_13h-Disk 0	ter Forensic Tool Test d. c 64 E4 reated 08/23/03 at 10:13:51 ed 08/31/03 at 08:18:19 :54 t Cmd Name 1 Reset 1 SeekDrive 1 AltReset 1 Recalibrate 0 ExtendedSeek 0 Not all commands blocked (1 of 1 Reset
	Results for SWB-11 category c on drive 81 Not all commands blocked (1 of		
	5)		
	summary: 10	sent, 2 blocked, 8 not block	eα
Results:	Assertion	Expected Results	Actual Results
	AM-05	No cmds to drive 80	Not all cmds to drive 80
		blocked	blocked
	AM-05	No cmds to drive 81	Not all cmds to drive 81
	AM-07	blocked Tool active message	blocked Tool active message
	AM-07 AM-08	Tool active message 2 drives identified	Tool active message 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:		cted results not achieved for	

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	SWB-AM-05. If a drive is protected and a command from the control
Tested:	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 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

Used:			10 (c)RCMP 1993-2001
- 1			
Commands	Boot Test PO	C to (DOS 7.1) Windows 98 [Ve	rsion 4.10.22221
executed:	tally13	3 00 (200 7.1) WINGOWD 30 [10	1,10,222,
eneouseu	hd17 S0		
		3-12 HecRamsey SN c E4	
	Shutdown Tes	<u>-</u>	
Tan Dila		or Execution ****	
Log File			,
Highlights:		S interrupt 13h (disk service	•
	-	mpiled on 07/29/03 at 07:33:1	
	,	n 1.1 Created 07/29/03 at 07:	
		03 at 14:41:49) Going	TSR
		ll HDL Log *****	
		l3 Hard Disk Write Lock V0.7	
		Royal Canadian Mounted P	
	UNAUT	THORIZED USE / DISTRIBUTION	PROHIBITED
		nsee: U.S. DoC - NIST - Compu	
		ard-Disks reported by Int_13h	
		-Disk 0 Locked!	
		e Block successfully installe	d.
	**** Test H	Harness Log *****	
	CMD: A:\TEST	T-HDL.EXE SWB-12 HecRamsey SN	c E4
	Case: SWB-12	2	
	Command set:	: Control	
	Date: Thu Od	et 02 14:41:56 2003	
	<pre>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 cs) Summary: 5 sent, 1 blocked, 4 not blocked</pre>		t Cmd Name Reset Reset Reset Recalibrate ExtendedSeek Not all commands blocked (1 of
_			
Results:	Assertion	Expected Results	Actual Results
	AM-05	No cmds to drive 80	Not all cmds to drive 80
		blocked	blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	An 00		
	AM-09	Drive 80 is protected	Drive 80 is protected
		Drive 80 is protected 1 Commands return success	Drive 80 is protected 1 Commands return success

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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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.

	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 wit Drive 81, label 8A is a WDC WD200EB-00CSF0 Drive 82, label 90 is a WDC WD300BB-00CAA0 Drive 83, label 1F is a Quantum ATLAS10K3_ sectors Drive 84, label 2B is a Quantum QM39100TD-	with 39102336 sectors with 58633344 sectors 18_SCA Drive with 35916548
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Vers tally13 hdl7 13 test-hdl SWB-13 McCloud SN w 6F 8A 90 1F 2	
	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 Now (10/02/03 at 15:34:18) Going TS ***** Install HDL Log ***** HDL Int_13 Hard Disk Write Lock V0.7 01	R 0610 (c)RCMP 1993-2001 ice ROHIBITED r Forensic Tool Test
	Case: SWB-13 Command set: Write Date: Thu Oct 02 15:34:25 2003 Version: @(#) test-hdl.cpp Version 1.1 Cre	08/31/03 at 08:18:19 4
	0 SWB-13 <03> 80 Allowed 0000 Off 1 1 SWB-13 <0B> 80 Allowed 0000 Off 1 2 SWB-13 <43> 80 Allowed 0000 Off 1 Results for SWB-13 category w on drive 80 0 SWB-13 <03> 81 Blocked 0300 On 0 1 SWB-13 <0B> 81 Blocked 0300 On 0 2 SWB-13 <43> 81 Blocked 0300 On 0	WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite
	1 SWB-13 <0B> 82 Allowed 0000 Off 1 2 SWB-13 <43> 82 Allowed 0000 Off 1 Results for SWB-13 category w on drive 82	WriteSectors WriteLong ExtWrite
	2 SWB-13 <43> 83 Blocked 0300 On 0 Results for SWB-13 category w on drive 83 0 SWB-13 <03> 84 Allowed 0000 Off 1 1 SWB-13 <0B> 84 Allowed 0000 Off 1	WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)
Pogulta	2 SWB-13 <43> 83 Blocked 0300 On 0 Results for SWB-13 category w on drive 83 0 SWB-13 <03> 84 Allowed 0000 Off 1 1 SWB-13 <0B> 84 Allowed 0000 Off 1 2 SWB-13 <43> 84 Allowed 0000 Off 1 Results for SWB-13 category w on drive 84 Summary: 15 sent, 6 blocked, 9 not blocked	WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)
Results:	2 SWB-13 <43> 83 Blocked 0300 On 0 Results for SWB-13 category w on drive 83 0 SWB-13 <03> 84 Allowed 0000 Off 1 1 SWB-13 <0B> 84 Allowed 0000 Off 1 2 SWB-13 <43> 84 Allowed 0000 Off 1 Results for SWB-13 category w on drive 84 Summary: 15 sent, 6 blocked, 9 not blocked	WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results
Results:	2 SWB-13 <43> 83 Blocked 0300 On 0 Results for SWB-13 category w on drive 83 0 SWB-13 <03> 84 Allowed 0000 Off 1 1 SWB-13 <0B> 84 Allowed 0000 Off 1 2 SWB-13 <43> 84 Allowed 0000 Off 1 Results for SWB-13 category w on drive 84 Summary: 15 sent, 6 blocked, 9 not blocked	WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)

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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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:	SN
Test Date:	Thu Oct 02 15:37:16 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
useu.	Drive 82, label 90 is a WDC WD300BB-00CAAO with 58633344 sectors
	Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
Commands	Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	
executed.	tally13 hdl7 s01
	test-hdl SWB-14 McCloud SN w 6F 8A 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
_	
Highlights:	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 15:37:09) Going TSR
	***** Install HDL Log *****
	HDL Int_13 Hard Disk Write Lock VO.7 010610 (c)RCMP 1993-2001
	Royal Canadian Mounted Police
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Time and W. G. Dog. Mag. Green has Browning Book Broat
	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 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-14 McCloud SN w 6F 8A 90 1F 2B
	Case: SWB-14
	Command set: Write
	Date: Thu Oct 02 15:37:16 2003

Case SWB-14 HDL Int_13	Hard Disk Write Lock V0.7 010610) (c)RCMP 1993-2001
Version: @ @(# Cor Operator: Host: McCl Number of Case 0 SWB-14 1 SWB-14 2 SWB-14 Results fo	(#) test-hdl.cpp Version 1.1 Cr b) wb-defs.h Version 1.2 Created piled on Aug 31 2003 at 08:10:5 SN oud drives 5, Drives: 6F 8A 90 1F 21 Cmd Drv Action Stat Cry Count <03> 80 Blocked 0000 Off 0 <08> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0	Bated 08/23/03 at 10:13:51 08/31/03 at 08:18:19 4 B Cmd Name WriteSectors WriteLong ExtWrite
1 SWB-14 2 SWB-14 Results fo 0 SWB-14 1 SWB-14 2 SWB-14 Results fo 0 SWB-14 1 SWB-14 2 SWB-14 Results fo 0 SWB-14 1 SWB-14 2 SWB-14 Results fo	<pre><0B> 81 Blocked 0000 Off 0 <43> 81 Blocked 0000 Off 0 r SWB-14 category w on drive 81 <03> 82 Allowed 0000 Off 1 <0B> 82 Allowed 0000 Off 1 <43> 82 Allowed 0000 Off 1 r SWB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <0B> 83 Allowed 0000 Off 1 <43> 83 Allowed 0000 Off 1 r SWB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <43> 83 Allowed 0000 Off 1 r SWB-14 category w on drive 83 <03> 84 Allowed 0000 Off 1 <0B> 84 Allowed 0000 Off 1</pre>	WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)
Results: Assertion	Expected Results	Actual Results
AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-01 AO-01 AO-01 AO-07 AO-07	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 6 Commands return success All cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 6 Commands return success All cmds to drive 80 blocked All cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 84 blocked
Analysis: SWB-14 Exp	ected 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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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 HDT	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
Commands	Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
and du du du	hd17 0
	test-hdl SWB-15 McCloud SN x 6F 8A 90 1F 2B
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	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
	2 SWB-15 <07> 80 Blocked 0300 On 0 FormatCyl 3 SWB-15 <09> 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-15 <08> 80 Allowed 0000 Off 1 DiagnosticESDI
	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 CMD 15 (05) 91 Allowed 0000 Off 1 Format Track
	0 SWB-15 <05> 81 Allowed 0000 Off 1 FormatTrack 1 SWB-15 <06> 81 Allowed 0000 Off 1 FormatBadSectors
	2 SWB-15 <00> 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)

Case SWB-15 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
	0 SWB-15 ·	<05> 83 Allowed 0000 Off	L FormatTrack
	1 SWB-15 ·	<06> 83 Allowed 0000 Off	L FormatBadSectors
			l FormatCyl
			l InitDriveParms
			l DiagnosticESDI
			l DiagnosticESDI
			L DiagnosticRAM
			l DiagnosticDrive
			l DiagnosticCTL
			No commands blocked (0 of 9)
			l FormatTrack
			L FormatBadSectors
			l FormatCyl
			l InitDriveParms
			l DiagnosticESDI
			l DiagnosticESDI
			L DiagnosticRAM
			l DiagnosticDrive
	8 SWB-15 ·	<14> 84 Allowed 0000 Off 1	l DiagnosticCTL
		SWB-15 category x on drive 84	No commands blocked (0 of 9)
			No commands blocked (0 of 9)
Results:		SWB-15 category x on drive 84	No commands blocked (0 of 9)
Results:	Summary: 45	SWB-15 category x on drive 84 sent, 7 blocked, 38 not block	No commands blocked (0 of 9) sed
Results:	Summary: 45 Assertion	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked.	No commands blocked (0 of 9) and Actual Results
Results:	Summary: 45 Assertion AM-07	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified	Actual Results Tool active message 5 drives identified
Results:	Assertion	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected	Actual Results Tool active message 5 drives identified Drive 80 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail Not all cmds to drive 80
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 AO-02	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 83 is unprotected Drive 84 is unprotected Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Tool active 84 is unprotected Tool active 85 is unprotected Tool active 86 is unprotected Tool active 86 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 A0-02 A0-07	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 83 is unprotected Drive 84 is unprotected Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Tool active 84 is unprotected Tool active 85 is unprotected Tool active 86 is unprotected Tool active 86 is unprotected Tool active 86 is unprotected Tool active 87 is unprotected Tool active 88 is unpro
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 A0-02 A0-07 A0-07	SWB-15 category x on drive 84 sent, 7 blocked, 38 not blocked. Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80 blocked No cmds to drive 81 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 83 is unprotected Drive 84 is unprotected Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected Tool active 84 is unprotected Tool active 86 is unprotected Tool active 87 is unprotected Tool active 87 is unprotected Tool active 88 is unprotected

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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]

Case SWB-16 HDI	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	***** Monitor Execution *****
Highlights:	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
	Date: Illu Oct 02 15:43:31 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: 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
	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 <12> 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
	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
	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 v on drive 82 Not all commands blocked (7 of
	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
	5 SWB-16 <of> 83 Allowed 0000 Off 1 DiagnosticESDI</of>

Case SWB-16 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
	6 SWB-16	<12> 83 Allowed 0000 Off	l DiagnosticRAM
	7 SWB-16	<13> 83 Allowed 0000 Off	l DiagnosticDrive
	8 SWB-16	<14> 83 Allowed 0000 Off	l DiagnosticCTL
	Results for	SWB-16 category x on drive 83	No commands blocked (0 of 9)
	0 SWB-16	<05> 84 Allowed 0000 Off	l FormatTrack
	1 SWB-16		l FormatBadSectors
			l FormatCyl
			l InitDriveParms
			l DiagnosticESDI
		<of> 84 Allowed 0000 Off</of>	l DiagnosticESDI
	6 SWB-16		l DiagnosticRAM
			l DiagnosticDrive
			l DiagnosticCTL
			4 No commands blocked (0 of 9)
	Summary: 45	sent, 7 blocked, 38 not block	ced
Damilta.	3	Down at all Downley	Datus Danilla
Results:	Assertion	Expected Results	Actual Results
Results:	AM-07	Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 5 drives identified	Tool active message 5 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 5 drives identified Drive 80 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success All cmds to drive 82	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success Not all cmds to drive 82
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-02	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success All cmds to drive 82 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success Not all cmds to drive 82 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-02	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success All cmds to drive 82 blocked No cmds to drive 80 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success Not all cmds to drive 82 blocked No cmds to drive 80 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-02	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success All cmds to drive 82 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return success Not all cmds to drive 82 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked

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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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.
The set of a North A	
Tester Name:	SN Thu Oct 02 15:46:49 2003
Test Date:	
Test PC: Test Software:	McCloud
	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060LO with 120103200 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tallv13
evecarea.	hdl7 1
	test-hdl SWB-17 McCloud SN m 6F 8A 90 1F 2B
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	Monitor BIOS interrupt 13h (disk service)
	non-cor 2200 incorrage for (albit bervice)

```
Case SWB-17 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                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 \text{ 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
                          . . .
                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
```

Case SWB-I/ HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	226 SWB-17	<fe> 83 Allowed 0000 Off 1 1</fe>	Undefined
			No commands blocked (0 of 228)
		<16> 84 Allowed 0000 Off 1	
	mi	sc commands 17-FD results omit	ted
	se	e log files for full results	
	227 SWB-17 Results for	<pre><fe> 84 Allowed 0000 Off</fe></pre>	Undefined No commands blocked (0 of 228)
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:		-	
Results:	AM-07	Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 5 drives identified	Tool active message 5 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 5 drives identified Drive 80 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 AO-03	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked No cmds to drive 82 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 AO-03 AO-07	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 AO-03 AO-07 AO-07 AO-07	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked No cmds to drive 82 blocked	Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 228 Commands return fail All cmds to drive 81 blocked No cmds to drive 80 blocked No cmds to drive 82 blocked

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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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-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 15:24:51 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 S012
	test-hdl SWB-18 Wimsey SN m 6F 90 1F 2B
	Shutdown Test PC

```
Case SWB-18 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                **** Monitor Execution ****
Log File
Highlights:
                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 \text{ 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
```

Case SWB-18 HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	mi	sc commands 17-FD results omit	ted
	se	e log files for full results	
	227 SWB-18 Results for		Undefined No commands blocked (0 of 228)
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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 3
	test-hdl SWB-19 Wimsey SN r 6F 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	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
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test

Case SWB-19 HDL I	Int_13 Hard Disk Writ	e Lock V0.7 01061	0 (c)RCMP 1993-2001
		ported by Int_13h	
	Hard-Disk 0 Not		
	Hard-Disk 1 Not		
	Hard-Disk 2 Not		
		Locked!	
		essfully installed	l .
	** Test Harness Log		- 00 4- 0-
I	: A:\TEST-HDL.EXE SW	B-19 Wimsey SN r 6	F 90 1F 2B
	e: SWB-19		
	mand set: Read e: Thu Oct 02 15:27:	10 2003	
Date	e. Inu Oct 02 15.27.	19 2003	
	@(#) wb-defs.h V		reated 08/23/03 at 10:13:51 d 08/31/03 at 08:18:19 54
Host	t: Wimsey		
Numb	ber of drives 4, Dri		
	Case Cmd Drv Acti		
	SWB-19 <02> 80 Allo		ReadSectors
I	SWB-19 < 0A> 80 Allo		ReadLong
I	SWB-19 <42> 80 Allo		ExtRead
I			No commands blocked (0 of 3)
I	SWB-19 <02> 81 Allo		
	SWB-19 <0A> 81 Allo		ReadLong
	SWB-19 <42> 81 Allo		ExtRead
			No commands blocked (0 of 3)
	SWB-19 <02> 82 Allo		ReadSectors
	SWB-19 < 0A> 82 Allo		ReadLong
	SWB-19 <42> 82 Allo		ExtRead
	ults for SWB-19 cate SWB-19 <02> 83 Allo		No commands blocked (0 of 3)
	SWB-19 < 02 > 83 Allo		ReadSectors ReadLong
1 2	SWB-19 <0A> 83 Allo	wed 0000 Off 1	ExtRead
Pogu	SWB-19 <42> 63 A110	wed 0000 OII I	No commands blocked (0 of 3)
	mary: 12 sent, 0 blo		
Buna	mary. 12 bene, 0 bio	ched, 12 not block	.cu
Results: As:	sertion Expected Re	1+-	Actual Results
	-07 Tool active		Tool active message
	-08 4 drives id -09 Drive 80 is		4 drives identified
		unprotected	Drive 80 is unprotected
		unprotected	Drive 81 is unprotected
		unprotected	Drive 82 is unprotected
	-09 Drive 83 is	-	Drive 83 is protected
		return fail	O Commands return fail
		drive 83 blocked	No cmds to drive 83 blocked
		drive 80 blocked	No cmds to drive 80 blocked
		drive 81 blocked	No cmds to drive 81 blocked
		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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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.

Cage SWB-20 HDI.	Int_13 Hard Disk Write Lock V0.7 01061	0 (c)PCMP 1993-2001
Tester Name:	SN	.0 (C)KCMF 1993-2001
Test Date:	Thu Oct 02 15:32:00 2003	
Test PC:	Wimsey	
Test Software:	SWBT 1.0	
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 wi	ith 120103200 sectors
Used:	Drive 81, label 90 is a WDC WD300BB-00CAA	AO with 58633344 sectors
	Drive 82, label 1F is a Quantum ATLAS10K3	3_18_SCA Drive with 35916548
	sectors	
	Drive 83, label 2B is a Quantum QM39100TI	
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Ver	rsion 4.10.2222]
executed:	tally13 hdl7 S013	
	test-hdl SWB-20 Wimsey SN r 6F 90 1F 2B	
	Shutdown Test PC	
Log File	**** Monitor Execution ****	
Highlights:	Monitor BIOS interrupt 13h (disk service)	
	tally13 compiled on 07/29/03 at 07:33:17	7
	@(#) Version 1.1 Created 07/29/03 at 07:2	28:05
	Now (10/02/03 at 15:31:57) Going 1	rsr
	***** Install HDL Log *****	
	HDL Int_13 Hard Disk Write Lock V0.7 (
	Royal Canadian Mounted Po	
	UNAUTHORIZED USE / DISTRIBUTION	LUCUIDIIED
	Licensee: U.S. DoC - NIST - Comput	er Forensic Tool Test
	4 Hard-Disks reported by Int_13h	ter rorensie 1001 lese
	Hard-Disk 0 Locked!	
	Hard-Disk 1 Locked!	
	Hard-Disk 2 Not Locked!	
	Hard-Disk 3 Locked!	
	Write Block successfully installed	d.
	***** Test Harness Log *****	
	CMD: A:\TEST-HDL.EXE SWB-20 Wimsey SN r 6	5F 90 1F 2B
	Case: SWB-20	
	Command set: Read	
	Date: Thu Oct 02 15:32:00 2003	
	 Version: @(#) test-hdl.cpp Version 1.1 Cr	reated 08/23/03 at 10:13:51
	@(#) wb-defs.h Version 1.2 Create	
	Compiled on Aug 31 2003 at 08:10:	
	Operator: SN	
	Host: Wimsey	
	Number of drives 4, Drives: 6F 90 1F 2B	
	Case Cmd Drv Action Stat Cry Count	
	0 SWB-20 <02> 80 Allowed 0000 Off	
	1 SWB-20 <0A> 80 Allowed 0000 Off 2 SWB-20 <42> 80 Allowed 0000 Off	L ReadLong
	Results for SWB-20 category r on drive 80	
		ReadSectors
		l ReadLong l ExtRead
	Results for SWB-20 category r on drive 81	
		ReadSectors
		L ReadLong
		L ExtRead
	Results for SWB-20 category r on drive 82	
	0 SWB-20 <02> 83 Allowed 0000 Off	l ReadSectors
	1 SWB-20 <0A> 83 Allowed 0000 Off	l ReadLong
	2 SWB-20 <42> 83 Allowed 0000 Off	L ExtRead
	Results for SWB-20 category r on drive 83	
	Summary: 12 sent, 0 blocked, 12 not block	red
Results:	Assertion Expected Results	Actual Results
WEBUILD.	AM-07 Tool active message	Tool active message
	AM-07 1001 active message AM-08 4 drives identified	4 drives identified
	AM-08 4 drives identified AM-09 Drive 80 is protected	Drive 80 is protected
	AM-09 Drive 80 is protected AM-09 Drive 81 is protected	Drive 80 is protected Drive 81 is protected
	AM-09 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
	ATT TO O COMMUNICATION TECUTIF SUCCESS	o commanda recurn success

Case SWB-20 HDL	Int_13 H	ard Disk Write Lock V0.7 01061	0 (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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
1cbcca.	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-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.
	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 15:34:01 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	Drive 81, label 90 is a WDC WD300BB-00CAAO with 58633344 sectors
usea.	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
executed.	hdl7 23
	test-hdl SWB-21 Wimsey SN i 6F 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	Monitor BIOS interrupt 13h (disk service)
1119111191100	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

	L Int_13 Ha	ard Disk Write Lock V0.7 0106	510 (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)
		<01> 81 Allowed 0000 Off	1 GetLastStatus
		<04> 81 Allowed 0000 Off	1 VerifySectors
	2 SWB-21	<08> 81 Allowed 0000 Off	1 ReadDriveParms
		<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
		<48> 81 Allowed 0000 Off	1 GetDriveParms
			81 No commands blocked (0 of 8)
		<01> 82 Allowed 0000 Off	1 GetLastStatus
		<04> 82 Allowed 0000 Off	1 VerifySectors
		<08> 82 Allowed 0000 Off	1 ReadDriveParms
		<10> 82 Allowed 0000 Off	1 TestDriveReady
		<15> 82 Blocked 0300 On	0 ReadDriveType
		<41> 82 Allowed 0000 Off	1 CheckForExtensions
		<44> 82 Allowed 0000 Off	1 VerifySectors
		<48> 82 Allowed 0000 Off	1 GetDriveParms
			82 Not all commands blocked (1 of
	8)	bib ii daeegein i en alive s	32 1.00 all command 2100110a (1 01
	1 '	<01> 83 Allowed 0000 Off	1 GetLastStatus
		<04> 83 Allowed 0000 Off	1 VerifySectors
		<08> 83 Allowed 0000 Off	1 ReadDriveParms
		<10> 83 Allowed 0000 Off	1 TestDriveReady
		<15> 83 Blocked 0300 On	0 ReadDriveType
		<41> 83 Allowed 0000 Off	1 CheckForExtensions
		<44> 83 Allowed 0000 Off	1 VerifySectors
		<48> 83 Allowed 0000 Off	1 GetDriveParms
			83 Not all commands blocked (1 of
	8) Summary: 32	sent, 2 blocked, 30 not blocked	cked
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	=	
Results:		Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 4 drives identified	Tool active message 4 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 4 drives identified Drive 80 is unprotected	Tool active message 4 drives identified Drive 80 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked
Results: Analysis:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked
	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked
Analysis:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07 AO-07 SWB-21 Expe	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked cted results not achieved for	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked r assertions: AO-06
Analysis: Case SWB-22 HDI	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07 SWB-21 Expe	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked cted results not achieved for	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked r assertions: AO-06
Analysis:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-07 SWB-21 Expe	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked cted results not achieved for	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected 2 Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 81 blocked r 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	SWB-AM-07. If the tool is executed then the tool shall issue a message	
Tested:	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
	then commands from the information 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 15:36:18 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 S123 test-hdl SWB-22 Wimsey SN i 6F 90 1F 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	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
	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
	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
	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

Case SWB-22 H	DL Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	4 SWB-22	<15> 82 Blocked 0000 Off	0 ReadDriveType
			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 8	32 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
			1 ReadDriveParms
	3 SWB-22		1 TestDriveReady
			<pre>0 ReadDriveType</pre>
			1 CheckForExtensions
		<44> 83 Allowed 0000 Off	
			1 GetDriveParms
	Results for	SWB-22 category i on drive 8	33 Not all commands blocked (1 of
	8)		
	Summary: 32	sent, 3 blocked, 29 not bloc	ked
7.			
Results:	Assertion	Expected Results	Actual Results
Results:	AM-07	Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 4 drives identified	Tool active message 4 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 4 drives identified Drive 80 is unprotected	Tool active message 4 drives identified Drive 80 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81 blocked No cmds to drive 82	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81 blocked Not all cmds to drive 82
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81 blocked No cmds to drive 82 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06 AO-06	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked	Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected 3 Commands return success Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked Not all cmds to drive 82 blocked Not all cmds to drive 83 blocked

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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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 set of a Nicola A	the selected subset.		
Tester Name:	SN		
Test Date:	Thu Oct 02 15:38:19 2003		
	Wimsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors Drive 81, label 90 is a WDC WD30OBB-00CAAO with 58633344 sectors		
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
executed:	tally13		
CACCUCCU.	hd17 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
                **** Monitor Execution ****
Log File
Highlights:
                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
                                                      1 AltReset
                  2 SWB-23 <0D> 80 Allowed 0000 Off
                  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
                  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 SeekDrive
1 AltReset
                  1 SWB-23 <0C> 82 Allowed 0000 Off
                  2 SWB-23 <0D> 82 Allowed 0000 Off
                                                      1 Recalibrate
                  3 SWB-23 <11> 82 Allowed 0000 Off
                                                      0 ExtendedSeek
                  4 SWB-23 <47> 82 Blocked 0300 On
                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 <OC> 83 Allowed 0000 Off
                                                        1 SeekDrive
                  2 SWB-23 <0D> 83 Allowed 0000 Off
                                                        1 AltReset
                                                       1 Recalibrate
                  3 SWB-23 <11> 83 Allowed 0000 Off
                  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
                Summary: 20 sent, 3 blocked, 17 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
                            Drive 83 is protected
                                                         Drive 83 is protected
                 AM-09
                 AM-11
                            3 Commands return fail
                                                         3 Commands return fail
                 AO-05
                            No cmds to drive 80
                                                         Not all cmds to drive 80
                            blocked
                                                         blocked
                                                         Not all cmds to drive 82
                 AO-05
                            No cmds to drive 82
                            blocked
                                                         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	Not all cmds to drive 83
		blocked	blocked
	AO-07	No cmds to drive 81	No cmds to drive 81 blocked
		blocked	
Analysis:	SWB-23 Expe	ected 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:	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-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 15:40:50 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 S02 test-hdl SWB-24 Wimsey SN c 6F 90 1F 2B Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	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

Case SWB-24 HDL	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (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 8	0 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	<od> 81 Allowed 0000 Off</od>	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 8	1 No commands blocked (0 of 5)
	0 SWB-24	<00> 82 Allowed 0000 Off	1 Reset
	1 SWB-24	<oc> 82 Allowed 0000 Off</oc>	1 SeekDrive
	2 SWB-24	<d> 82 Allowed 0000 Off</d>	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 8	2 Not all commands blocked (1 of
	5)		
	0 SWB-24	<00> 83 Allowed 0000 Off	1 Reset
	1 SWB-24	<oc> 83 Allowed 0000 Off</oc>	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 8	3 No commands blocked (0 of 5)
	Summary: 20	sent, 2 blocked, 18 not bloc	ked
Results:	Assertion	Expected Results	Actual Results
Rebuieb.	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 AM-09	_	-
		Drive 81 is unprotected	Drive 81 is unprotected
		Draine 02 is protected	Dwirro 02 is protosted
1	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is unprotected	Drive 83 is unprotected
	AM-09 AM-10	Drive 83 is unprotected 2 Commands return success	Drive 83 is unprotected 2 Commands return success
	AM-09	Drive 83 is unprotected 2 Commands return success No cmds to drive 80	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80
	AM-09 AM-10 AO-05	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked
	AM-09 AM-10	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82
	AM-09 AM-10 AO-05	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked
	AM-09 AM-10 AO-05	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 81	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82
	AM-09 AM-10 AO-05 AO-05	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 81 blocked	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked No cmds to drive 81 blocked
	AM-09 AM-10 AO-05	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 81 blocked No cmds to drive 83	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked
Analysis:	AM-09 AM-10 AO-05 AO-05 AO-07	Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked No cmds to drive 81 blocked	Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked No cmds to drive 81 blocked No cmds to drive 83 blocked

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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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.		
	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		
Tester Name:	the selected subset. JRL		
Test Date:	Thu Oct 02 12:56:03 2003		
Test PC:	Rumpole		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors		
Used:	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	L Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
Commands	Boot Test Po	C to (DOS 7.1) Windows 98 [Vers	sion 4.10.2222]	
executed:	tally13			
	hd17 0			
		3-25 Rumpole JRL w 90 8A 2B		
	Shutdown Tes			
Log File		or Execution *****		
Highlights:		S interrupt 13h (disk service)		
		mpiled on 07/29/03 at 07:33:17	2.05	
		n 1.1 Created 07/29/03 at 07:28		
		03 at 12:56:00) Going TS	SR	
		***** Install HDL Log ***** HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
	_	Royal Canadian Mounted Pol		
		ROYAL CANADIAN MOUNTED PO- THORIZED USE / DISTRIBUTION P		
	ONAO	INORIZED USE / DISTRIBUTION I	ROHIBITED	
	T.i.cei	nsee: U.S. DoC - NIST - Compute	er Forensic Tool Test	
		ard-Disks reported by Int_13h	er rorensie root rese	
		-Disk 0 Locked!		
		-Disk 1 Not Locked!		
		-Disk 2 Not Locked!		
		e Block successfully installed		
		Harness Log *****		
	CMD: A:\TEST	T-HDL.EXE SWB-25 Rumpole JRL w	90 8A 2B	
	Case: SWB-25	5		
	Command set	: Write		
	Date: Thu O	ct 02 12:56:03 2003		
	<pre>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</pre>			
	Results for SWB-25 category w on drive 82 No commands blocked (0 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 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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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.		

Cago CWP_26 HDT	Int_13 Hard Disk Write Lock V0.7 010610	(a)PCMP 1992-2001		
Case SWB-20 HDL				
	SWB-AM-10. If the tool is configured to recommands and the tool blocks a comman			
	indicate successful command execution			
	SWB-AO-01. If a subset of all covered driv			
	then commands from the write category	shall be blocked for drives in		
	the selected subset.	161.16		
	SWB-AO-07. If a subset of all covered driv			
	then no commands from any category sh	all 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	Drive 80, label 90 is a WDC WD300BB-00CAA() with 58633344 sectors		
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF() with 39102336 sectors		
	Drive 82, label 2B is a Quantum QM39100TD-	-SCA Drive with 17783249 sectors		
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Vers	sion 4.10.2222]		
executed:	tally13			
	hdl7 S1			
	test-hdl SWB-26 Rumpole JRL w 90 8A 2B			
	Shutdown Test PC			
Log File	**** Monitor Execution ****			
Highlights:	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	3:05		
	Now (10/02/03 at 12:57:52) Going TS			
	***** Install HDL Log ****			
	HDL Int_13 Hard Disk Write Lock V0.7 01	10610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Pol			
	UNAUTHORIZED USE / DISTRIBUTION I			
	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	00 07 20		
	Case: SWB-26	90 OA 2B		
	Command set: Write			
	Date: Thu Oct 02 12:57:55 2003			
	Date: Ind Oct 02 12:57:55 2003			
	Transian: 8(#) tast bill som Transian 1 1 Com			
	Version: @(#) test-hdl.cpp Version 1.1 Cre			
	@(#) 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	Cond Name		
	Case Cmd Drv Action Stat Cry Count			
		WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 80			
		WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 81			
		WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 82			
	Summary: 9 sent, 3 blocked, 6 not blocked			
	Assertion Expected Results	Actual Results		
Results:				
Results:	AM-07 Tool active message	Tool active message		
Results:	AM-07 Tool active message AM-08 3 drives identified	Tool active message 3 drives identified		
Results:		-		
Results:	AM-08 3 drives identified	3 drives identified		
Results:	AM-08 3 drives identified AM-09 Drive 80 is unprotected	3 drives identified Drive 80 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:	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
Tester Name:	the selected subset.
Test Date:	JRL Thu Oct 02 12:59:52 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 2
	test-hdl SWB-27 Rumpole JRL w 90 8A 2B
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	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 VO.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

Case SWB-27 HDL	Int_13 Ha	ard 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
		SWB-27 category w on drive 81	
	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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message	
Tested:	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	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors	
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]	
executed:	tally13	
	hd17 S12	
	test-hdl SWB-28 Rumpole JRL w 90 8A 2B	
	Shutdown Test PC	
Log File	**** Monitor Execution ****	
Highlights:	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	
	ONAUTHORIZED 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 Ha	ard 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 <08> 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 <08> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 81 All commands blocked (3 of 3) 0 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 <08> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 3 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 4 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 5 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 5 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 5 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 5 SWB-28 <43> 82 Blocked 0000 Off 0 WriteLong 5 SWB-28 <43 SWB-28 Category w on drive 82 All commands blocked (3 of 3) 5 SWB-28 <43 SWB-28 Category w on drive 82 All commands blocked (3 of 3)		O8/31/03 at 08:18:19 4 Cmd Name WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite ExtWrite Sectors WriteLong ExtWrite
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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message	
Tested:	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	
	<pre>indicating the protection status of each drive attached to a covered interface.</pre>	
	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	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors	
Used:	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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]	
executed:	tally13	
	hd17 02	
	test-hdl SWB-29 Rumpole JRL w 90 8A 2B	
	Shutdown Test PC	
Log File	**** Monitor Execution ****	
Highlights:	Monitor BIOS interrupt 13h (disk service)	

Case SWB-29 HDI	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	tally13 compiled on 07/29/03 at 07:33:17		
	@(#) Version 1.1 Created 07/29/03 at 07:28:05		
		03 at $13:04:46$) Going TS	SR
	***** Insta	ll HDL Log *****	
	HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Police		
	UNAU'	THORIZED USE / DISTRIBUTION I	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.		
		Harness Log ***** F-HDL.EXE SWB-29 Rumpole JRL w	00 07 20
	Case: SWB-2	-	90 OA 2B
	Command set		
		· write ct 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 <08> 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 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 <03> 82 Blocked 0300 On 0 WriteSectors 1 SWB-29 <03> 82 Blocked 0300 On 0 WriteLong 2 SWB-29 <43> 82 Blocked 0300 On 0 ExtWrite Results for SWB-29 category w on drive 81 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 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
1	1 110 07	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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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,		

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 i		
	the selected subset.		
Tester Name:	JRL		
Test Date: Test PC:	Thu Oct 02 13:07:25 2003		
Test Pc:	Rumpole SWBT 1.0		
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA	0 with 58633344 sectors	
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF Drive 82, label 2B is a Quantum QM39100TD	0 with 39102336 sectors -SCA Drive with 17783249 sectors	
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Ver tally13	sion 4.10.2222]	
	hd17 S01 test-hd1 SWB-30 Rumpole JRL w 90 8A 2B		
Inn Dila	Shutdown Test PC ***** Monitor Execution *****		
Log File Highlights:	Monitor BIOS interrupt 13h (disk service)		
nightights.	tally13 compiled on 07/29/03 at 07:33:17		
	@(#) Version 1.1 Created 07/29/03 at 07:2	8:05	
	Now (10/02/03 at 13:07:22) Going T		
	***** Install HDL Log *****		
	HDL Int_13 Hard Disk Write Lock V0.7 0	10610 (c)RCMP 1993-2001	
	Royal Canadian Mounted Po	lice	
	UNAUTHORIZED USE / DISTRIBUTION	PROHIBITED	
	Licensee: U.S. DoC - NIST - Comput	er Forensic Tool Test	
	3 Hard-Disks reported by Int_13h Hard-Disk 0 Locked!		
	Hard-Disk 1 Locked!		
	Hard-Disk 1 Locked! Hard-Disk 2 Not 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		
	2 SWB-30 <43> 80 Blocked 0000 Off 0		
	Results for SWB-30 category w on drive 80		
		WriteSectors	
		WriteLong ExtWrite	
	Results for SWB-30 category w on drive 81		
		WriteSectors	
		WriteLong	
		ExtWrite	
	Results for SWB-30 category w on drive 82		
	Summary: 9 sent, 6 blocked, 3 not blocked		
Daniel III			
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	
	A0-01 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	
Analysis:	SWB-30 Expected results achieved		

Case SWB-31 HDI	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
2002 2 20000002	with pattern PUU, execute read commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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:	JRL
Test Date:	Thu Oct 02 15:13:31 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	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
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 0
	test-hdl SWB-31 McCloud JRL r 6F 8A 1F
	Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	Monitor BIOS interrupt 13h (disk service)
iiigiiiigiico.	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
	0 SWB-31 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 82 Allowed 0000 Off 1 ReadLong
	0 SWB-31 <02> 82 Allowed 0000 Off 1 ReadSectors

	Summary: 9	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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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 13:32:46 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hdl7 S1
	test-hdl SWB-32 McMillian SN r F6 64 E4
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	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
	Now (10/02/03 at 13.32.38) GOING 15K
	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
	Date. Ind Oct 02 13:32:40 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
August 2004	63 of 80 Tast Results for HDI V0.7

Case SWB-32 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
	Operator: SI		
	Host: McMil	lian	
		rives 3, Drives: F6 64 E4	
		Cmd Drv Action Stat Cry Count	
		<02> 80 Allowed 0000 Off 1	
		<0A> 80 Allowed 0000 Off 1	
		<42> 80 Allowed 0000 Off 1	
		5 1	No commands blocked (0 of 3)
		<02> 81 Allowed 0000 Off 1	
		<0A> 81 Allowed 0000 Off 1	
		<42> 81 Allowed 0000 Off 1	
		5 1	No commands blocked (0 of 3)
		<02> 82 Allowed 0000 Off 1	
		<pre><0A> 82 Allowed 0000 Off 1</pre>	_
			l ExtRead
		sent, O blocked, 9 not blocked	2 No commands blocked (0 of 3)
	Summary. 9	sent, o blocked, a not blocked	1
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 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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	Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors		
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
executed:	tally13		
	hd17 2		
	test-hdl SWB-33 McMillian SN r F6 64 E4		
	Shutdown Test PC		
Log File	**** Monitor Execution ****		
Highlights:	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		
Case SWB-33 HDL	Licer 3 Hard Hard Hard Write ***** Test I CMD: A:\TES Case: SWB-33 Command set Date: Thu Or Version: @(#	nsee: U.S. DoC - NIST - Computer ard-Disks reported by Int_13h - Disk 0 Not Locked! - Disk 1 Not Locked! - Disk 2 Locked! - Disk 2 Locked! - Block successfully installed arness Log **** I-HDL.EXE SWB-33 McMillian SN 3 Read - Disk 2 Read - Disk 2 Read - Disk 2 Read - Disk 2 Resident SN 3 Read - Disk 2 Resident SN 4 Resident SN 4 Resident SN 5 Read - Disk 2 Resident SN 6 Resident SN 8 Residen	cer Forensic Tool Test d. r F6 64 E4 reated 08/23/03 at 10:13:51 d 08/31/03 at 08:18:19 54 c Cmd Name L ReadSectors L ReadLong L ExtRead O No commands blocked (0 of 3) L ReadSectors L ReadLong L ExtRead L No commands blocked (0 of 3) L ReadSectors L ReadLong L ExtRead L No commands blocked (0 of 3) L ReadSectors L ReadLong L ExtRead L No commands blocked (0 of 3) L ReadSectors L ReadLong L ExtRead L No commands blocked (0 of 3)
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	0 Commands return fail	0 Commands return fail
	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
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
Analysis:	SWB-33 Expe	cted 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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
Used:	Drive 81, 1a	abel 64 is a WDC WD64AA with 1	12594960 sectors
	Drive 82, 1a	abel E4 is a QUANTUM ATLAS10K2	2-TY092J with 17938985 sectors
Commands		C to (DOS 7.1) Windows 98 [Ver	
executed:	tally13	, , , , , , , , , , , , , , , , , , , ,	•
	hd17 S12		
		3-34 McMillian SN r F6 64 E4	
	Shutdown Te	st PC	
Log File		or Execution ****	
Highlights:	Monitor BIOS interrupt 13h (disk service)		
	tally13 compiled on 07/29/03 at 07:33:17		
	_	n 1.1 Created 07/29/03 at 07:2	
		03 at 13:27:07) Going 5	
	***** Insta	ll HDL Log *****	
	HDL Int_	13 Hard Disk Write Lock V0.7 (010610 (c)RCMP 1993-2001
		Royal Canadian Mounted Po	olice
	UNAU'	THORIZED USE / DISTRIBUTION	PROHIBITED
	Lice	nsee: U.S. DoC - NIST - Comput	ter Forensic Tool Test
	3 Ha	ard-Disks reported by Int_13h	
	Hard	-Disk 0 Not Locked!	
	Hard	-Disk 1 Locked!	
	Hard	-Disk 2 Locked!	
	Write	e Block successfully installed	i.
		Harness Log *****	
	CMD: A:\TES	Γ-HDL.EXE SWB-34 McMillian SN	r F6 64 E4
	Case: SWB-3	4	
	Command set		
	Date: Thu O	ct 02 13:27:15 2003	
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:5 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		d 08/31/03 at 08:18:19
	Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name		
		<02> 80 Allowed 0000 Off	
	2 SWB-34	<0A> 80 Allowed 0000 Off <42> 80 Allowed 0000 Off	l ExtRead
			No commands blocked (0 of 3)
		<02> 81 Allowed 0000 Off	
	1 SWB-34	<0A> 81 Allowed 0000 Off	l ReadLong
	2 SWB-34	<42> 81 Allowed 0000 Off	l ExtRead
	Results for	SWB-34 category r on drive 83	l No commands blocked (0 of 3)
	0 SWB-34	<02> 82 Allowed 0000 Off	l ReadSectors
	1 SWB-34	<0A> 82 Allowed 0000 Off	l ReadLong
	2 SWB-34	<42> 82 Allowed 0000 Off	l ExtRead
	Results for SWB-34 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 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:		cted results achieved	1.5 Shab to allive ou blocked
	I SUD ST EVDE	TODATED ACTITEVED	

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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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 covinterface. SWB-AM-II. If the tool is configured to return fail on blocked commar and the tool blocks a command then the return code shall indicat unsuccessful command execution. SWB-AD-04. If a subset of all covered drives is specified for protect then commands from the read category shall not be blocked for dr in the selected subset. SWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test PC: MSWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Test Bate T. In the selected subset. Molton Face T. In the selected subset. Molton Face T. In the selected subset. Molton Face T. In the selected subset. Molton BLOCK State	SWB-35 HDL -	Int_13 Ha	rd Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
SWB-AM-11. If the tool is configured to return fail on blocked commar and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AD-04. If a subset of all covered drives is specified for protect then commands from the read category shall not be blocked for drives in the selected subset. SWB-AD-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives in the selected subset. Tester Name: SWB-AD-07. If a subset of all covered drives is specified for protect the selected subset. Test PC: New Hillian Test Software: NEWT 1.0 Hard Drives Used: Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 12594960 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AA with 1259496 sectors Drive 81, label 64 is a WIC WD64AAA with 1259496 sectors 13, label 64 is a WIC WD64AAA with 1259496 sectors 13, label 64 is a WIC WD64AAA with 1259496 sectors 13, label 64 is a WIC WD64AAA wit				
Unsuccessful command execution.	S	SWB-AM-11. I	If the tool is configured to r	
then commands from the read category shall not be blocked for dr in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives n the selected subset. Tester Name: SW Test Date: Thu Oct 02 13:24:29 2003 Test PC: Modilian Test Software: SWBT 1.0 Bard Drives Drive 80, label F6 is an IEM-DTLA-307020 with 40189960 sectors Drive 81, label 64 is a NDC WD64AA with 12594960 sectors Drive 82, label E4 is a QUANTUM ATLASIOK2-TV9927 with 17938985 sector Commands executed: Lally13 Boot Test PC to (DOS 7.1) Windows 98 (Version 4.10.2222) test-hdl SWB-35 McMillian SN r F6 64 E4 Shutdown Test PC Log File Highlights: Monitor Execution ***** Monitor ENGS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 (#) Version 1.1 Created 07/29/03 at 07:32:05 Now (10/02/03 at 13:24:21) Going TSR ***** HDL Int.13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		unsucce	ssful command execution.	
SWB-A0-07. If a subset of all covered drives is specified for protect then no commands from any category shall be blocked for drives not the selected subset. Test Date: Thu Oct 02 13:24:29 2003 Test PC: McMillian Test Software: SWBT 1.0 McMillian SWBT 1.0 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 ATLASIGN2-TV0927 with 17938985 sector SWBT 1.0	S	then co	mmands from the read category	
Test Date: Thu Oct 02 13:24:29 2003 Test PC: McMillan Test Software: Newfillan Test Software: Newfillan Test Software: SWBT 1.0 Test Software: Drive 80, label F6 is an IEM-DTLA-307020 with 40188960 sectors Drive 81, label 64 is a WDC WD64AA with 12594960 sectors Drive 81, label 64 is a WDC WD64AA with 12594960 sectors Drive 82, label E4 is a QUANTUM ATLASIOK2-TY092J with 17938985 sector Commands Executed: Software: Newfillan SN r F6 64 E4 Shutdown Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hdl7 02 test-hdl SWB-35 McMillian SN r F6 64 E4 Shutdown Test PC Log File Highlights: Monitor EDOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:23:17 (#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:24:21) Going TER ****** 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-Disk 1 Not 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 Coperator: 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 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SW	S	SWB-AO-07. I then no	If a subset of all covered dri commands from any category sl	
Test PC: McMillian Test Software: SNBT 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 ATLASIOK2-TVO92J with 17938985 sector 200 mands executed: tally13 hd17 02 test-hd1 SWB-35 McMillian SN r F6 64 E4 Shutdown Test PC Log File Highlights: Monitor Execution ***** Highlights: Monitor BIOS interrupt 13h (disk service) tally13 compiled on 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 VO.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-Disk in Not Locked! Hard-Disk 0 Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ******* CMD: A:\Test-Harness Log ******* CMD: A:\Test-Harness Log ******* CMD: A:\Test-Harness Log ****** CM	er Name: S		ected subset.	
Test Software: SWET 1.0 Hard Drives Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors Drive 81, label 64 is a NDC WD64AA with 12594960 sectors Drive 82, label E4 is a QUANTUM ATLASIOKZ-TY092J with 17938985 sector Commands executed: Boot Test PC to (DDS 7.1) Windows 98 [Version 4.10.2222] tally13 bd17 02 test-hd1 SNB-35 McMillian SN r F6 64 E4 Shutdown Test PC Log File Highlights: Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07729/03 at 07:33:17 e(#) Version 1.1 Created 07/29/03 at 07:33:17 e(#) 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 VO.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-Disk 1 Not 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 <02 > 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <02 > 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03 > 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03 > 82 Allowed 0000 Off 1 R			13:24:29 2003	
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Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sector Commands Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd17 02 test-hd1 SWB-35 McMillian SN r F6 64 E4 Shutdown Test PC Log File				
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test-hdl SWB-35 McMillian SN r F6 64 E4 Shutdown Test FC Log File Highlights: ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:23:05 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-Disk S reported by Int_13h 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		-		
Shutdown Test PC			3-35 McMillian SN r F6 64 E4	
### Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:38:10 (##) 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 <02> 80 Allowed 0000 off 1 ReadLong 2 SWB-35 <42> 80 Allowed 0000 off 1 ReadLong Results for SWB-35 category r on drive 80 No commands blocked (0 of 3 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 82 Allowed 0000 Off 1 ReadLong				
tally13 compiled on 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 VO.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 1 Not Locked! Hard-Disk 2 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: @(#) wb-defs.h Version 1.1 Created 08/23/03 at 10:13:51				
@(#) 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 VO.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 1 Not 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: @(#) wb-defs.h 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 <0A> 80 Allowed 0000 Off 1 ReadLong 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadLong 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors 1 SWB-35 <0A> 80 Allowed O000 Off 1 ReadSectors				
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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 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: @(#) best-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51				
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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 0 SWB-35) SWB-35 <42> 82 Allowed 0000 Off 1 ExtRead				
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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	R			
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				
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				<u> </u>
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	R			
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				
Results for SWB-35 category r on drive 82 No commands blocked (0 of 3				<u> </u>
	R			
Results: Assertion Expected Results Actual Results	ts:	Aggertion	Expected Results	Actual Paguite
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	 			Drive 80 is protected
AM-09 Drive 81 is unprotected Drive 81 is unprotected		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
		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 Expe	cted results achieved	

	-
Cage CMB-36 UDI	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case swm-36 HDL	SWB-36 Install three drives, configure return code to success, protect
case summary.	with pattern PPU, execute read commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
resteu.	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 13:18:17 2003
Test PC:	McMillian
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label F6 is an IBM-DTLA-307020 with 40188960 sectors
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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
	hd17 s01
	test-hdl SWB-36 McMillian SN r F6 64 E4
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	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 13:18:10) 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
	Date. The Oct 02 13:10:17 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)
	1

Case SWB-36 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
	0 SWB-36	<02> 81 Allowed 0000 Off 1	l ReadSectors
	1 SWB-36	<0A> 81 Allowed 0000 Off	l ReadLong
	2 SWB-36	<42> 81 Allowed 0000 Off	l ExtRead
	Results for	SWB-36 category r on drive 81	l No commands blocked (0 of 3)
	0 SWB-36	<02> 82 Allowed 0000 Off	l ReadSectors
	1 SWB-36	<0A> 82 Allowed 0000 Off	l ReadLong
	2 SWB-36	<42> 82 Allowed 0000 Off	l ExtRead
	Results for	SWB-36 category r on drive 82	No commands blocked (0 of 3)
	Summary: 9	sent, 0 blocked, 9 not blocked	i
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:		-	
Results:	AM-07	Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 3 drives identified	Tool active message 3 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 3 drives identified Drive 80 is protected	Tool active message 3 drives identified Drive 80 is protected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-10	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-10 AO-04	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success No cmds to drive 80 blocked	Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success No cmds to drive 80 blocked

Cago CWD_27 UDI	The 12 Hard Digh Write Lock VO 7 010610 (a)DOWN 1992-2001
	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	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	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	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	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	Boot Host (HDL in AUTOEXEC.BAT)
executed:	
	Windows 98 [Version 4.10.2222]
	tally13
	hdl7 13
	test-hdl SWB-37 Wimsey JRL w 6F 90 1F 2B
	Shutdown Host
Log File	**** Monitor Execution ****
Highlights:	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 HD	DL Int_13 Ha	ard 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-3	Case: SWB-37			
	Command set: Write				
	Date: Fri O	ct 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: Wimse	У			
	Number of d	rives 4, Drives: 6F 90 1F 2B			
		Cmd Drv Action Stat Cry Count			
	0 SWB-37	<03> 80 Allowed 0000 Off 1			
			WriteLong		
			ExtWrite		
		SWB-37 category w on drive 80			
			WriteSectors		
		<0B> 81 Blocked 0300 On 0	_		
		<43> 81 Blocked 0300 On 0			
		SWB-37 category w on drive 81			
	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	Results for SWB-37 category w on drive 83 All commands blocked (3 of 3)			
	Summary: 12	sent, 6 blocked, 6 not blocked	d		
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 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		
		No cmds to drive 82 blocked			
Analysis:		cted results achieved	in the second of		
maixere:					

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	SWB-AM-07. If the tool is executed then the tool shall issue a message			
Tested:	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	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors			
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			

Case SWB-38 HD	L Int_13 Hard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001	
	sectors		
	Drive 84, label 2B is a Quantum QM39100TI	D-SCA Drive with 17783249 sector	
Commands	Boot Host (HDL in AUTOEXEC.BAT)		
executed:	Windows 98 [Version 4.10.2222]		
	tally13		
	hd17 S024 test-hd1 SWB-38 McCloud JRL w 6F 8A 90 1	7 2B	
	Shutdown Host	20	
Log File	**** Monitor Execution ****		
Highlights:	Monitor BIOS interrupt 13h (disk service		
	tally13 compiled on 07/29/03 at 07:33:1	7	
	@(#) Version 1.1 Created 07/29/03 at 07:2		
	Now (10/03/03 at 09:54:34) Going	ΓSR	
	***** Install HDL Log ***** HDL Int_13 Hard Disk Write Lock V0.7	010610 (a)BCMD 1002-2001	
	Royal Canadian Mounted Po		
	UNAUTHORIZED USE / DISTRIBUTION		
	Licensee: U.S. DoC - NIST - Comput	er Forensic Tool Test	
	5 Hard-Disks reported by Int_13h	22 10101010 1001 1000	
	Hard-Disk 0 Locked!		
	Hard-Disk 1 Not Locked!		
	Hard-Disk 2 Locked!		
	Hard-Disk 3 Not Locked!		
	Hard-Disk 4 Locked!	3	
	Write Block successfully installed ***** Test Harness Log ****	1.	
	CMD: A:\TEST-HDL.EXE SWB-38 McCloud JRL v	v 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 C: @(#) wb-defs.h Version 1.2 Create Compiled on Aug 31 2003 at 08:10: Operator: JRL Host: McCloud	d 08/31/03 at 08:18:19	
	Number of drives 5, Drives: 6F 8A 90 1F 3	2B	
	Case Cmd Drv Action Stat Cry Count		
	0 SWB-38 <03> 80 Blocked 0000 Off		
) WriteLong) ExtWrite	
	Results for SWB-38 category w on drive 80		
	0 SWB-38 <03> 81 Allowed 0000 Off		
		WriteLong	
	2 SWB-38 <43> 81 Allowed 0000 Off	L ExtWrite	
	Results for SWB-38 category w on drive 83	No commands blocked (0 of 3)	
) WriteSectors	
) WriteLong	
	2 SWB-38 <43> 82 Blocked 0000 Off Results for SWB-38 category w on drive 83	ExtWrite All commands blocked (3 of 3)	
		L WriteSectors	
		WriteLong	
		L ExtWrite	
	Results for SWB-38 category w on drive 83		
) WriteSectors	
) WriteLong	
) ExtWrite 1 All commands blocked (3 of 3)	
	Results for SWB-38 category w on drive 84 All commands blocked (3 of 3) Summary: 15 sent, 9 blocked, 6 not blocked		
2	Assertion Expected Results	Actual Results	
Results.			
kesults.	_	Tool active message	
Results.	AM-07 Tool active message	Tool active message 5 drives identified	
Results.	AM-07 Tool active message AM-08 5 drives identified	Tool active message 5 drives identified Drive 80 is protected	
xesults.	AM-07 Tool active message AM-08 5 drives identified	5 drives identified	
Results.	AM-07 Tool active message AM-08 5 drives identified AM-09 Drive 80 is protected	5 drives identified Drive 80 is protected	
Results:	AM-07 Tool active message AM-08 5 drives identified AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected	5 drives identified Drive 80 is protected Drive 81 is unprotected	
RESUILS.	AM-07 Tool active message AM-08 5 drives identified AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected AM-09 Drive 82 is protected	5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected	

Case SWB-38 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
		All cmds to drive 80 blocked	All cmds to drive 80 blocked	
		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	
		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			

Come GMD 30 HDI	Tet 12 Your Diele Weite Teel VO 7 010(10 /c) PGWD 1002 0001		
	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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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-09. If the tool is active and the tool is then uninstalled then no		
	commands to any drive shall be blocked.		
Tester Name:	SN SN		
Test Date:	Thu Oct 02 16:18:10 2003		
Test PC:	McCloud		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060LO with 120103200 sectors		
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		
Commands	Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors Boot Test PC		
executed:	BOOL TEST PC		
executed.	Windows 98 [Version 4.10.2222]		
	tally13		
	hd17 234		
	test-hdl SWB-39 McCloud SN w 6F 8A 90 1F 2B		
	t-off SWB-39 McCloud SN		
	hdl7 R		
	test-hdl SWB-39 McCloud SN a 6F 8A 90 1F 2B		
	Shutdown Test PC		
Log File	***** Monitor Execution *****		
Highlights:	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 16:17:47) 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		
	Liganges, H.C. Ded. NICE desertes Essentia Mark		
	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 1 Not Locked!		
	Hard-Disk 3 Locked!		
	Hard-Disk 4 Locked!		
	Write Block successfully installed.		
	***** Blocked Write Commands *****		
	CMD: a:\TEST-HDL.EXE SWB-39 McCloud SN w 6F 8A 90 1F 2B		
	Case: SWB-39		
	Command set: Write		
	Date: Thu Oct 02 16:17:55 2003		
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51		
	@(#) wb-defs.h Version 1.2 Created 08/23/03 at 10:13:51		
	Compiled on Aug 31 2003 at 08:10:54		
	Operator: SN		
	Host: McCloud		

```
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
                 O SWB-39 <03> 80 Allowed 0000 Off 1 WriteSectors
                 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 <OB> 81 Allowed 0000 Off
                                                     1 WriteLong
                                                   1 ExtWrite
                 2 SWB-39 <43> 81 Allowed 0000 Off
               Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)
                 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
                                                   0 WriteLong
0 ExtWrite
                 1 SWB-39 <0B> 83 Blocked 0300 On
                 2 SWB-39 <43> 83 Blocked 0300 On
               Results for SWB-39 category w on drive 83 All commands blocked (3 of 3)
                 0 WriteLong
                 1 SWB-39 <0B> 84 Blocked 0300 On
                 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
                 82
                          Ω
                 83
                          Ω
               ***** 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
                 1 SWB-39 <0C> 80 Allowed 0000 Off
                 2 SWB-39 <0D> 80 Allowed 0000 Off
                                                  1 AltReset
                                                    1 Recalibrate
                 3 SWB-39 <11> 80 Allowed 0000 Off
                 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 SeekDrive
1 AltReset
                 1 SWB-39 <0C> 81 Allowed 0000 Off
                 2 SWB-39 <0D> 81 Allowed 0000 Off
                 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 <OC> 82 Allowed 0000 Off
                                                    1 SeekDrive
                 2 SWB-39 <0D> 82 Allowed 0000 Off
                                                    1 AltReset
1 Recalibrate
                 3 SWB-39 <11> 82 Allowed 0000 Off
                 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)
                                                       1 Reset
                  0 SWB-39 <00> 83 Allowed 0000 Off
                                                         1
                  1 SWB-39 <0C> 83 Allowed 0000 Off
                                                            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
                                                         1 AltReset
1 Recalibrate
                  2 SWB-39 <0D> 84 Allowed 0000 Off
                  3 SWB-39 <11> 84 Allowed 0000 Off
                  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 VerifySectors
1 ReadDriveParms
                  1 SWB-39 <04> 80 Allowed 0000 Off
                  2 SWB-39 <08> 80 Allowed 0000 Off
                  3 SWB-39 <10> 80 Allowed 0000 Off
                                                        1 TestDriveReady
                                                      1 ReadDriveType
                  4 SWB-39 <15> 80 Allowed 0000 Off
                                                         1 CheckForExtensions
                  5 SWB-39 <41> 80 Allowed 0000 Off
                  6 SWB-39 <44> 80 Allowed 0000 Off
                                                        1 VerifvSectors
                  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
                                                       1 ReadDriveParms
                  2 SWB-39 <08> 81 Allowed 0000 Off
                                                        1 TestDriveReady
1 ReadDriveType
                  3 SWB-39 <10> 81 Allowed 0000 Off
                                                            TestDriveReady
                  4 SWB-39 <15> 81 Allowed 0000 Off
                                                        1 CheckForExtensions
                  5 SWB-39 <41> 81 Allowed 0000 Off
                                                        1 VerifySectors
1 GetDriveParms
                  6 SWB-39 <44> 81 Allowed 0000 Off
                  7 SWB-39 <48> 81 Allowed 0000 Off
                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
                                                         1 ReadDriveParms
                  2 SWB-39 <08> 82 Allowed 0000 Off
                  3 SWB-39 <10> 82 Allowed 0000 Off
                                                        1 TestDriveReady
                                                        1 ReadDriveType
                  4 SWB-39 <15> 82 Allowed 0000 Off
                  5 SWB-39 <41> 82 Allowed 0000 Off
                                                         1 CheckForExtensions
                                                        1 VerifySectors
                  6 SWB-39 <44> 82 Allowed 0000 Off
                  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 $\rm 1$ GetLastStatus
                  1 SWB-39 <04> 83 Allowed 0000 Off
                                                        1 VerifySectors
                                                        1 ReadDriveParms
1 TestDriveReady
                  2 SWB-39 <08> 83 Allowed 0000 Off
                  3 SWB-39 <10> 83 Allowed 0000 Off
                                                        1 ReadDriveType
                  4 SWB-39 <15> 83 Allowed 0000 Off
                  5 SWB-39 <41> 83 Allowed 0000 Off
                                                        1 CheckForExtensions
                                                        1 VerifySectors
1 GetDriveParms
                  6 SWB-39 <44> 83 Allowed 0000 Off
                  7 SWB-39 <48> 83 Allowed 0000 Off
                Results for SWB-39 category i on drive 83 No commands blocked (0 of 8)
                  0 SWB-39 <01> 84 Allowed 0000 Off \hspace{1cm} 1 GetLastStatus
                  1 SWB-39 <04> 84 Allowed 0000 Off
                                                         1 VerifySectors
                                                        1 ReadDriveParms
                  2 SWB-39 <08> 84 Allowed 0000 Off
                  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
                                                         1 ReadSectors
1 ReadLong
                  0 SWB-39 <02> 80 Allowed 0000 Off
                  1 SWB-39 <0A> 80 Allowed 0000 Off
                  2 SWB-39 <42> 80 Allowed 0000 Off
                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)
                                                         1 ReadSectors
                  0 SWB-39 <02> 82 Allowed 0000 Off
                  1 SWB-39 <0A> 82 Allowed 0000 Off
                                                         1 ReadLong
```

```
Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                  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
                                                         2 WriteSectors
                  0 SWB-39 <03> 80 Allowed 0000 Off
                  1 SWB-39 <0B> 80 Allowed 0000 Off
                                                            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
                                                        1 InitDriveParms
1 DiagnosticESDI
                  3 SWB-39 <09> 80 Allowed 0000 Off
                  4 SWB-39 <0E> 80 Allowed 0000 Off
                  5 SWB-39 <0F> 80 Allowed 0000 Off
                                                       1 DiagnosticESDI
                  6 SWB-39 <12> 80 Allowed 0000 Off
                                                       1 DiagnosticRAM
                                                        1 DiagnosticDrive
1 DiagnosticCTL
                  7 SWB-39 <13> 80 Allowed 0000 Off
                  8 SWB-39 <14> 80 Allowed 0000 Off
                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
                  1 SWB-39 <06> 81 Allowed 0000 Off
                  2 SWB-39 <07> 81 Allowed 0000 Off
                                                       1 FormatCyl
                  3 SWB-39 <09> 81 Allowed 0000 Off
                                                       1 InitDriveParms
                                                        1
                  4 SWB-39 <0E> 81 Allowed 0000 Off
                                                            DiagnosticESDI
                  5 SWB-39 <0F> 81 Allowed 0000 Off
                                                         1 DiagnosticESDI
                  6 SWB-39 <12> 81 Allowed 0000 Off
                                                         1 DiagnosticRAM
                                                        1 DiagnosticDrive
1 DiagnosticCTL
                  7 SWB-39 <13> 81 Allowed 0000 Off
                  8 SWB-39 <14> 81 Allowed 0000 Off
                Results for SWB-39 category x on drive 81 No commands blocked (0 of 9)
                  0 SWB-39 <05> 82 Allowed 0000 Off \hspace{0.1in} 1 FormatTrack
                                                        1 FormatBadSectors
1 FormatCyl
                  1 SWB-39 <06> 82 Allowed 0000 Off
                  2 SWB-39 <07> 82 Allowed 0000 Off
                  3 SWB-39 <09> 82 Allowed 0000 Off
                                                        1 InitDriveParms
                                                        1 DiagnosticESDI
                  4 SWB-39 <OE> 82 Allowed 0000 Off
                  5 SWB-39 <0F> 82 Allowed 0000 Off
                                                            DiagnosticESDI
                                                         1
                  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 FormatBadSectors
                  1 SWB-39 <06> 83 Allowed 0000 Off
                  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
1 DiagnosticRAM
                  6 SWB-39 <12> 83 Allowed 0000 Off
                  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
                     1 SWB-39 <06> 84 Allowed 0000 Off
                     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
                                                               1 DiagnosticDrive
1 DiagnosticCTL
                     7 SWB-39 <13> 84 Allowed 0000 Off
                     8 SWB-39 <14> 84 Allowed 0000 Off
                   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
                                                              1 Undefined
                   226 SWB-39 <FE> 82 Allowed 0000 Off
                   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</ff>			
	Results for	SWB-39 category m on driv	ve 84 No commands blocked	(0 of 228)
	Summary: 11	40 sent, 0 blocked, 1140 r	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	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	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	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors		
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors		
obca.	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	Boot Test PC		
executed:	Boot Test Te		
cxccuccu.	Windows 98 [Version 4.10.2222]		
	tally13		
	hd17 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	***** Monitor Execution *****		
Highlights:	Monitor BIOS interrupt 13h (disk service)		
1119111191100	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 VO.7 010610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Police		
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED		
	Similari del Personal Indirection		
	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		
A 4 2004	Cabe. Bild 10		

```
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
                              Cmd Drive Action
                                                                               Cmd Name
                      Case
                                                     Status
                                                              Carry
                                                                       Count
                   0 SWB-40
                               03
                                    80
                                          Blocked
                                                     0000
                                                              Off
                                                                       Ω
                                                                               WriteSectors
                   1 SWB-40
                                    80
                                          Blocked
                                                     0000
                                                              Off
                                                                               WriteLong
                               0B
                   2 SWB-40
                                          Blocked
                               43
                                    80
                                                     0000
                                                              Off
                                                                       Λ
                                                                               ExtWrite
                   3 SWB-40
                               21
                                     80
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                               WriteBlocks
                   4 SWB-40
                                                     0000
                                    80
                                          Blocked
                                                              Off
                                                                               Format.Track
                               0.5
                                                                       0
                   5 SWB-40
                                    80
                                          Blocked
                                                     0000
                                                              Off
                                                                               FormatBadSectors
                               06
                                                                       0
                   6 SWB-40
                               07
                                    80
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                               FormatCyl
                   7 SWB-40
                               0E
                                    80
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              DiagnosticESDI
                   8 SWB-40
                               OF
                                    80
                                          Blocked
                                                     0000
                                                              Off
                                                                              DiagnosticESDI
                   9 SWB-40
                                          Blocked
                                                              Off
                               12
                                    80
                                                     0000
                                                                       0
                                                                              DiagnosticRAM
                  10 SWB-40
                                     80
                                          Blocked
                                                     0000
                                                              Off
                                                                               DiagnosticDrive
                               13
                                                                       0
                  11 SWB-40
                                          Blocked
                                                     0000
                                                              Off
                               14
                                    80
                                                                       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
                               0.3
                                     81
                                          Blocked
                                                     0000
                                                              Off
                                                                               WriteSectors
                   1 SWB-40
                                          Blocked
                               0B
                                     81
                                                     0000
                                                              Off
                                                                       0
                                                                               WriteLong
                   2 SWB-40
                               43
                                     81
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                               Ext.Write
                   3 SWB-40
                                          Blocked
                                                     0000
                                                                              WriteBlocks
                               2.1
                                     81
                                                              Off
                                                                       0
                   4 SWB-40
                                          Blocked
                                                     0000
                                                              Off
                               05
                                                                               FormatTrack
                   5 SWB-40
                               06
                                    81
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                              Format BadSectors
                   6 SWB-40
                               07
                                     81
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                              FormatCyl
                   7 SWB-40
                                    81
                                          Allowed
                                                     0000
                                                              Off
                                                                              DiagnosticESDI
                               0E
                                                                       1
                   8 SWB-40
                                          Blocked
                               0F
                                    81
                                                     0000
                                                              Off
                                                                       0
                                                                              DiagnosticESDI
                   9 SWB-40
                                     81
                                          Blocked
                                                     0000
                                                              Off
                               12
                                                                       0
                                                                               DiagnosticRAM
                  10 SWB-40
                                          Blocked
                                                     0000
                               13
                                    81
                                                              Off
                                                                       0
                                                                              DiagnosticDrive
                  11 SWB-40
                                          Blocked
                                                     0000
                                                              Off
                                                                               DiagnosticCTL
                  12 SWB-40
                               1 A
                                    81
                                          Blocked
                                                     0000
                                                              Off
                                                                       0
                                                                               Format.DriveESDI
                 Results for SWB-40 category w on drive 81 Not all commands blocked (12 of
                 13)
                   0 SWB-40
                               0.3
                                     82
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                               WriteSectors
                   1 SWB-40
                               0в
                                    82
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                               WriteLong
                   2 SWB-40
                                          Allowed
                                                     0000
                                                                              ExtWrite
                               43
                                    82
                                                              Off
                                                                       1
                   3 SWB-40
                                          Allowed
                                                     0000
                                                              Off
                                     82
                                                                               WriteBlocks
                                                     0000
                   4 SWB-40
                               05
                                    82
                                          Allowed
                                                              Off
                                                                       1
                                                                              FormatTrack
                   5 SWB-40
                               06
                                    82
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              FormatBadSectors
                   6 SWB-40
                               07
                                    82
                                          Allowed
                                                     0000
                                                              Off
                                                                              FormatCyl
                   7 SWB-40
                               0E
                                    82
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              DiagnosticESDI
                   8 SWB-40
                               0F
                                     82
                                          Allowed
                                                     0000
                                                              Off
                                                                               DiagnosticESDI
                                                                       1
                   9 SWB-40
                               12
                                    82
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              DiagnosticRAM
                  10 SWB-40
                                          Allowed
                                                     0000
                               13
                                                              Off
                                                                               DiagnosticDrive
                  11 SWB-40
                                     82
                                          Allowed
                                                     0000
                                                              Off
                               14
                                                                       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
                               0в
                                    83
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                               WriteLong
                   2 SWB-40
                               43
                                    83
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              ExtWrite
                   3 SWB-40
                                          Allowed
                                                     0000
                                                              Off
                                                                               WriteBlocks
                   4 SWB-40
                               05
                                    83
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              FormatTrack
                   5 SWB-40
                                          Allowed
                                                     0000
                                                              Off
                                                                               FormatBadSectors
                               06
                                     83
                   6 SWB-40
                                          Allowed
                                                     0000
                               07
                                    83
                                                              Off
                                                                              Format.Cvl
                                                                       1
                   7 SWB-40
                               ΟE
                                    83
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                               DiagnosticESDI
                   8 SWB-40
                               0F
                                     83
                                          Allowed
                                                     0000
                                                              Off
                                                                               DiagnosticESDI
                                                                       1
                   9 SWB-40
                               12
                                    83
                                          Allowed
                                                     0000
                                                              Off
                                                                       1
                                                                              DiagnosticRAM
                  10 SWB-40
                                                     0000
                               13
                                    83
                                          Allowed
                                                              Off
                                                                               DiagnosticDrive
                  11 SWB-40
                                    83
                                          Allowed
                                                     0000
                                                              Off
                               14
                                                                       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
                Drive Count
                  80
                          1
                  81
                          1
                  82
                          13
                         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
                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
                Results for SWB-40 category i on drive 81 Not all commands blocked (1 of
                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
                Results for SWB-40 category r on drive 81 Not all commands blocked (1 of
                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
                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
                Results for SWB-40 category x on drive 81 Not all commands blocked (8 of
                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)
```

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: 90	0 sent, 450 blocked, 450 not b	olocked
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.

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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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