

	NIJ
Special	REPORT
Test Results for Software Write Block Tools: RCMP H	DL V0.7

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



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Director

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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 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 Software Write Block Web page. 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			Par	titio	n Table
E4	N	Start LBA	Length	boot	Partition type
	1 P	000000063	006152832	Boot	OB Fat32
	2 X	008193150	009735390		OF extended
	3 S	000000000	00000000		00 empty entry
	4 x	002056320	001237005		05 extended
	5 S	000000063	001236942		07 NTFS
	6 x	005349645	001638630		05 extended
	7 S	000000063	001638567		17 other
	8 x	008498385	001237005		05 extended
	9 S	000000063	001236942		1B other
F6	N	Start LBA	Length	boot	Partition type
	1 P	000000063	006152832	Boot	OB Fat32
	2 X	008193150	031985415		OF extended
	3 S	000000000	000000000		00 empty entry
	4 x	002056320	001237005		05 extended
	5 S	000000063	001236942		07 NTFS
	6 x	005349645	001638630		05 extended
	7 S	000000063	001638567		17 other
	8 x	030748410	001237005		05 extended
	9 S	000000063	001236942		1B other

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

Table 5-5. Drive SHA1 Values Before Testing

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

Table 5-6. Drive SHA1 Values After Testing

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

5.3 Support Software

Support software, Software Write Block Test Harness (SWBT) Release 1.0, was developed to support the testing of interrupt 13h based software write block tools. The program DISKWIPE from the FS-TST Release 1.0 package was used in the drive setup procedure. Both FS-TST Release 1.0 and SWBT Release 1.0 can be obtained from the CFTT Web site. 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 <code>Hard-Disk N Locked!</code> or the message <code>Hard-Disk N Not Locked!</code> 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 <i>Software Write Block Tool Specification & Test Plan Version 3.0.</i>
Assertions tested	The test assertions tested by the test case from <i>Software Write Block Tool Specification & Test Plan Version 3.0.</i>
Tester Name:	Name or initials of person executing test procedure.
Test Date	Time and date that the test was started.
Test PC:	Name of computer where the tool under test was executed.
Test Software:	The name and version of the test software.
Hard Drives Used:	Description of the hard drives used in the test.
Commands Executed:	Documentation of each command executed during the test. The protected drives are identified on the HDL command line. HDL identifies the drives starting at 0.
Log File Highlights:	Selected entries from the test case log files. There are three log files that may appear. The log file created for TALLY13 is labeled <i>Monitor Execution</i> . The log file created for HDL is labeled <i>Install HDL Log</i> . The log file created by TEST-HDL is labeled <i>Test Harness Log</i> . For test cases SWB-39 and SWB-40, there are two separate logs for HDL and also for TEST-HDL since these cases require execution of HDL twice.

Heading	Description
Log File Highlights (continued):	The Monitor Execution log file records the program version and the 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.
	2. Case number.3. Interrupt 0x13 Functions. The category of interrupt 0x13 functions tested by this case.4. Date.
	5. Version. Version information about TEST-HDL and components. The creation date, creation time, and version of each source code component are listed. The compile time and date for the executable program are listed.
	6. Operator. The operator running the test.
	7. Host. The host computer running the test.8. Drives. The number of drives and the external drive label for each drive.
	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
tass sammary.	drives, execute write commands.
Assertions Tested:	SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the
	command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered
	interface. SWB-AM-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 Used:	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors Drive 83, label 1F is a Quantum ATLAS10K3 18 SCA Drive with 35916548
	sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13 hd17 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 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
	<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</pre>
	Operator: SN
	Host: McCloud Number of drives 5, Drives: 6F 8A 90 1F 2b
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-01 <03> 80 Blocked 0300 On 0 WriteSectors
	1 SWB-01 <0B> 80 Blocked 0300 On 0 WriteLong
	2 SWB-01 <43> 80 Blocked 0300 On
	Results for SWB-01 category w on drive 80 All commands blocked (3 of 3)
	0 SWB-01 <03> 81 Blocked 0300 On 0 WriteSectors
	1 SWB-01 <0B> 81 Blocked 0300 On
	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)
	ACCURATES FOR SWE OF CACEGOTY W ON ALLIVE OF ALL COMMUNICATION DECCAED (5 OF 5)

Case SWB-UI HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	0 SWB-01 1 SWB-01 2 SWB-01 1 SWB-01 1 SWB-01 2 SWB-01 1 Results for 0 SWB-01 1 SWB-01 1 SWB-01 2 SWB-01 2 SWB-01 1 SWB-01 2 SWB-01 Results for	Cmd Drv Action Stat Cry Count <03> 82 Blocked 0300 On 0 <0B> 82 Blocked 0300 On 0 <43> 82 Blocked 0300 On 0 <43> 82 Blocked 0300 On 0 SWB-01 category w on drive 82 <03> 83 Blocked 0300 On 0 <0B> 83 Blocked 0300 On 0 <43> 83 Blocked 0300 On 0 SWB-01 category w on drive 83 <03> 84 Blocked 0300 On 0 <0B> 84 Blocked 0300 On 0 <swb-01 83="" <03="" category="" drive="" on="" w=""> 84 Blocked 0300 On 0 <swb-01 0="" 15="" 84="" blocked,="" blocked<="" category="" drive="" not="" on="" sent,="" th="" w=""><th>WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteSectors WriteLong ExtWrite All commands blocked (3 of 3)</th></swb-01></swb-01>	WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteSectors WriteLong ExtWrite All commands blocked (3 of 3)
Results:		Expected Results	Actual 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	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	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 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
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	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

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
	hdl7 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	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
Case SWB-02 HDL	Lices 2 Hard Hard Hard Writ- ***** Test CMD: A:\TES' Case: SWB-02 Command set Date: Thu On Version: @(#) Comp Operator: SI Host: HecRal Number of d: Case (0 0 SWB-02 1 SWB-02 2 SWB-02 Results for 0 SWB-02 1 SWB-02 Results for	nsee: U.S. DOC - NIST - Computer ard-Disks reported by Int_13h -Disk 0 Locked! -Disk 1 Locked! -Disk 2 Locked! -Disk 2 Locked! -Disk 2 Locked! -Disk 3 Locked! -Disk 4 Locked! -Disk 5 Locked!	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 ExtWrite ExtWrite ExtWrite ExtWrite ExtWrite
Results:	Assertion	Expected Results	Actual Results
WESUICS.	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-01	All cmds to drive 80 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 Expe	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:\TES! Case: SWB-0: Command set		1.
	@ (#)		d 08/31/03 at 08:18:19
	Number of d:	rives 1, Drives: E4 Cmd Drv Action Stat Cry Count <05> 80 Blocked 0300 On (<06> 80 Blocked 0300 On (<07> 80 Blocked 0300 On (<07> 80 Blocked 0300 On (<07> 80 Allowed 0000 Off (<08) 80 Allowed 0000 Off (<08) 80 Blocked 0300 On (<08) 80 Blocked 0300 On (<12> 80 Blocked 0300 On (<12> 80 Blocked 0300 On (<13> 80 Blocked 0300 On (<14> 80 Blocked 0300 On (<14	FormatTrack FormatBadSectors FormatCyl InitDriveParms DiagnosticESDI DiagnosticRAM DiagnosticCTL Not all commands blocked (7 of
Results:	Assertion	Expected Results	Actual Results
	AM-02	All cmds to drive 80	Not all cmds to drive 80
	AM-07	blocked Tool active message	blocked Tool active message
	AM-07 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:		cted results not achieved for	

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 VO.7 010610 (c) RCMP 1993-2001
                       --- Royal Canadian Mounted Police ---
                       UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
                       Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
                       5 Hard-Disks reported by Int 13h
                       Hard-Disk 0
                                       Locked!
                       Hard-Disk 1
                                       Locked!
                       Hard-Disk 2
                                      Locked!
                       Hard-Disk 3
                                      Locked!
                       Hard-Disk 4
                                       Locked!
                      Write Block successfully installed.
                **** Test Harness Log ****
                CMD: A:\TEST-HDL.EXE SWB-04 McCloud SN x 6F 8A 90 1F 2B
                Case: SWB-04
                Command set: Configure
                Date: Thu Oct 02 15:50:21 2003
                Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
                       @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
                       Compiled on Aug 31 2003 at 08:10:54
                Operator: SN
                Host: McCloud
                Number of drives 5, Drives: 6F 8A 90 1F 2B
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-04 <05> 80 Blocked 0000 Off 0 FormatTrack
                  1 SWB-04 <06> 80 Blocked 0000 Off
                                                      0 FormatBadSectors
                  2 SWB-04 <07> 80 Blocked 0000 Off
                                                       0 FormatCvl
                                                      1 InitDriveParms
                  3 SWB-04 <09> 80 Allowed 0000 Off
                  4 SWB-04 <0E> 80 Allowed 0000 Off
                                                      1 DiagnosticESDI
                  5 SWB-04 <0F> 80 Blocked 0000 Off
                                                       0 DiagnosticESDI
                  6 SWB-04 <12> 80 Blocked 0000 Off
                                                       0 DiagnosticRAM
                                                      0 DiagnosticDrive
                  7 SWB-04 <13> 80 Blocked 0000 Off
                  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
                  0 SWB-04 <05> 81 Blocked 0000 Off
                                                       0 FormatTrack
                                                       0 FormatBadSectors
0 FormatCyl
                  1 SWB-04 <06> 81 Blocked 0000 Off
                  2 SWB-04 <07> 81 Blocked 0000 Off
                  3 SWB-04 <09> 81 Allowed 0000 Off
                                                      1 InitDriveParms
                  4 SWB-04 <0E> 81 Allowed 0000 Off
                                                      1 DiagnosticESDI
                  5 SWB-04 <0F> 81 Blocked 0000 Off
                                                       0 DiagnosticESDI
                                                      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
                  0 SWB-04 <05> 82 Blocked 0000 Off
                                                       0 FormatTrack
                  1 SWB-04 <06> 82 Blocked 0000 Off
                                                       0 FormatBadSectors
                                                      0 FormatCyl
                  2 SWB-04 <07> 82 Blocked 0000 Off
                  3 SWB-04 <09> 82 Allowed 0000 Off
                                                      1 InitDriveParms
                  4 SWB-04 <0E> 82 Allowed 0000 Off
                                                       1 DiagnosticESDI
                  5 SWB-04 <OF> 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
```

Case SWB-04 HDL	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
		Cmd Drv Action Stat Cry Coun	
			0 FormatTrack
			0 FormatBadSectors
			0 FormatCyl
		<0E> 83 Allowed 0000 Off	1 InitDriveParms
			1 DiagnosticESDI
			0 DiagnosticESDI 0 DiagnosticRAM
			0 DiagnosticDrive
			0 DiagnosticCTL
			3 Not all commands blocked (7 of 9)
			0 FormatTrack
			0 FormatBadSectors
		<07> 84 Blocked 0000 Off	0 FormatCyl
			1 InitDriveParms
			1 DiagnosticESDI
			0 DiagnosticESDI
			0 DiagnosticRAM
			0 DiagnosticDrive
			0 DiagnosticCTL
			2
ı	Results for	SWB-U4 category x on drive 8	4 Not all commands blocked (7 of 9)
		sent, 35 blocked, 10 not blo	$4\ \mathrm{Not}\ \mathrm{all}\ \mathrm{commands}\ \mathrm{blocked}\ (7\ \mathrm{of}\ 9)$ cked
Results:	Summary: 45 Assertion	sent, 35 blocked, 10 not blo Expected Results	cked Actual Results
Results:	Summary: 45	sent, 35 blocked, 10 not blo	Actual Results Not all cmds to drive 80
Results:	Summary: 45 Assertion AM-02	sent, 35 blocked, 10 not blo Expected Results All cmds to drive 80 blocked	Actual Results Not all cmds to drive 80 blocked
Results:	Summary: 45 Assertion	sent, 35 blocked, 10 not blo Expected Results All cmds to drive 80 blocked All cmds to drive 81	Actual Results Not all cmds to drive 80 blocked Not all cmds to drive 81
Results:	Assertion AM-02 AM-02	sent, 35 blocked, 10 not blocked Expected Results All cmds to drive 80 blocked All cmds to drive 81 blocked	Actual Results Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked
Results:	Summary: 45 Assertion AM-02	sent, 35 blocked, 10 not blocked Results All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82	Actual Results Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82
Results:	Summary: 45 Assertion AM-02 AM-02 AM-02	sent, 35 blocked, 10 not blocked All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked	Actual Results Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked
Results:	Assertion AM-02 AM-02	sent, 35 blocked, 10 not blocked Results All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82 blocked All cmds to drive 83	Actual Results 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
Results:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02	sent, 35 blocked, 10 not 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	Actual Results 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:	Summary: 45 Assertion AM-02 AM-02 AM-02	sent, 35 blocked, 10 not 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 83 blocked All cmds to drive 84	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02	sent, 35 blocked, 10 not 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 83 blocked All cmds to drive 84 blocked	Actual Results 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 blocked
Results:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-07	Expected Results 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 Tool active message	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02	Expected Results 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	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-07	Expected Results 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	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-08	sent, 35 blocked, 10 not 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 Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09	Expected Results 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	Actual Results 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-02 AM-09 AM-09 AM-09	sent, 35 blocked, 10 not 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 Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09 AM-09	Expected Results 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 Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	Actual Results 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:	Assertion AM-02 AM-02 AM-02 AM-02 AM-02 AM-02 AM-09 AM-09 AM-09 AM-09 AM-09	Expected Results 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 Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 83 is protected Drive 83 is protected	Actual Results 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 83 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
	hdl7 01
	test-hdl SWB-05 HecRamsey SN m 64 E4
	Shutdown Test PC

```
Case SWB-05 HDL -- Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
               ***** 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 } 14:48:04) Going . . . TSR
               ***** Install HDL Log *****
               HDL -- Int 13 Hard Disk Write Lock V0.7 010610 (c) RCMP 1993-2001
                      --- Royal Canadian Mounted Police ----
                      UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
                      Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
                      2 Hard-Disks reported by Int 13h
                      Hard-Disk 0
                                     Locked!
                      Hard-Disk 1
                                     Locked!
                      Write Block successfully installed.
               **** Test Harness Log ****
               CMD: A:\TEST-HDL.EXE SWB-05 HecRamsey SN m 64 E4
               Case: SWB-05
               Command set: Misc
               Date: Thu Oct 02 14:48:12 2003
               Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
                      @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
                      Compiled on Aug 31 2003 at 08:10:54
               Operator: SN
               Host: HecRamsey
               Number of drives 2, Drives: 64 E4
                    Case Cmd Drv Action Stat Cry Count Cmd Name
                 0 SWB-05 <16> 80 Blocked 0300 On 0 Undefined
                        misc commands 17-FD results omitted
                        see log files for full results
               Results for SWB-05 category m on drive 80 All commands blocked (228 of
               228)
                 0 SWB-05 <16> 81 Blocked 0300 On
                                                     0 Undefined
                        misc commands 17-FD results omitted
                        see log files for full results
               Results for SWB-05 category m on drive 81 All commands blocked (228 of
               Summary: 456 sent, 456 blocked, 0 not blocked
                Assertion Expected Results
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
                           Drive 80 is protected
                                                        Drive 80 is protected
                AM-09
                           Drive 81 is protected
                AM-09
                                                        Drive 81 is protected
                                                       456 Commands return fail
                AM-11
                           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	
ſ	Case	summary:	SWB-06	Install	one o	drive,	configure	return	code to	success,	protect all
ı			drives	, execut	e mis	cellan	eous comman	nds.			

Case SWB-06 HDL	Int 13 Hard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
Assertions	SWB-AM-03. If a drive is protected and a	
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	
	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	
Hard Drives	Drive 80, label E4 is a QUANTUM ATLAS10K2-	-TY092J with 17938985 sectors
Used:		
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Vers	sion 4.10.22221
executed:	tally13	•
	hd17 S0	
	test-hdl SWB-06 HecRamsey SN m 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	
	Now (10/02/03 at 14:34:46) Going TS	SR
	***** Install HDL Log *****	
	HDL Int_13 Hard Disk Write Lock V0.7 03	
	Royal Canadian Mounted Pol	
	UNAUTHORIZED USE / DISTRIBUTION I	PROHIBITED
	T' H.O. D.O. NIOH. O	D
	Licensee: U.S. DoC - NIST - Compute	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 r	n E.4
	Case: SWB-06	
	Command set: Misc	
	Date: Thu Oct 02 14:34:53 2003	
	Version: @(#) test-hdl.cpp Version 1.1 Cre	eated 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 08:10:5	4
	Operator: SN	
	Host: HecRamsey	
	Number of drives 1, Drives: E4	
	Case Cmd Drv Action Stat Cry Count	
	0 SWB-06 <16> 80 Blocked 0000 Off 0	Undefined
		,
	misc commands 17-FD results omit	ced
	1 file C. C. 11 1	
	see log files for full results	
	•••	
	226 SWB-06 <fe> 80 Blocked 0000 Off 0</fe>	Undefined
	227 SWB-06 <ff> 80 Blocked 0000 Off 0</ff>	
	Results for SWB-06 category m on drive 80	
	228)	21
	Summary: 228 sent, 228 blocked, 0 not blocked	cked
	1, 1 1 1111111, 1 1110 2200	
Results:	Assertion Expected Results	Actual Results
	AM-03 All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-07 Tool active message	Tool active message
	AM-08 1 drives identified	1 drives identified
	AM-09 Drive 80 is protected	Drive 80 is protected
	AM-10 228 Commands return success	228 Commands return success
L	II	. IIIIIII I I I I I I I I I I I I I I I

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

Case SWB-07 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case summary:	SWB-07 Install all drives, configure return code to failure, protect all
	drives, execute read commands.
Assertions Tested:	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.
	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
chicoacca.	hd17 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)
nightights.	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now (10/02/03 at 15:28:03) Going TSR
	***** Install HDL Log *****
	HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
	Royal Canadian Mounted Police UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	UNAUTHORIZED USE / DISTRIBUTION FROMIBITED
	Tipones, H.C. Dec. MICH. Computer Forest Med. Mach.
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
	5 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked! Hard-Disk 3 Locked!
	Hard-Disk 4 Locked!
	Write Block successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-07 McCloud SN r 6F 8A 90 1F 2B
	Case: SWB-07
	Command set: Read
	Date: Thu Oct 02 15:28:11 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
	@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
	Compiled on Aug 31 2003 at 08:10:54
	Operator: SN
	Host: McCloud
	Number of drives 5, Drives: 6F 8A 90 1F 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-07 <02> 80 Allowed 0000 Off 1 ReadSectors
	1 SWB-07 <02> 80 Allowed 0000 Off 1 ReadLong
	2 SWB-07 <42> 80 Allowed 0000 Off 1 ExtRead
	Results for SWB-07 category r on drive 80 No commands blocked (0 of 3)
	0 SWB-07 <02> 81 Allowed 0000 Off 1 ReadSectors
	1 SWB-07 <0A> 81 Allowed 0000 Off 1 ReadLong
	2 SWB-07 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 81 No commands blocked (0 of 3)
	heading for and or eacegory i on arrive of no commands brocked (0 of 3)

Case SWB-07 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
	0 SWB-07 1 SWB-07 2 SWB-07 Results for 0 SWB-07 1 SWB-07 2 SWB-07 Results for 0 SWB-07 1 SWB-07 2 SWB-07 Results for	<02> 83 Allowed 0000 Off <0A> 83 Allowed 0000 Off <42> 83 Allowed 0000 Off SWB-07 category r on drive 83 <02> 84 Allowed 0000 Off <0A> 84 Allowed 0000 Off <42> 84 Allowed 0000 Off	ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ExtRead No commands blocked (0 of 3)
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 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-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
Results:	AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09 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 Drive 84 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 Drive 84 is protected
Results: Analysis:	AM-04 AM-04 AM-04 AM-04 AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11	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		
	hd17 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		
	UNAUTHORIZED USE / DISTRIBUTION PROFIBILED		
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test		

Case SWB-08 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
Case SWB-08 HDL	2 Hard Hard Writt ***** Test I CMD: A:\TEST Case: SWB-08 Command set Date: Thu Oo Version: @((#) Comp Operator: SI Host: HecRat Number of d: Case (0 0 SWB-08 1 SWB-08 2 SWB-08 Results for 0 SWB-08 1 SWB-08 Results for Results for	ard-Disks reported by Int_13h -Disk 0 Locked! -Disk 1 Locked! e Block successfully installed Harness Log **** I-HDL.EXE SWB-08 HecRamsey SN 3 : Read ct 02 14:50:56 2003 #) test-hdl.cpp Version 1.1 Cr wb-defs.h Version 1.2 Create ciled on Aug 31 2003 at 08:10: N msey rives 2, Drives: 64 E4 Cmd Drv Action Stat Cry Count <02> 80 Allowed 0000 Off 10 <42> 80 Allowed 0000 Off 508 508-08 category r on drive 80 <02> 81 Allowed 0000 Off 600> 81 Allowed 0000 Off	reated 08/23/03 at 10:13:51 d 08/31/03 at 08:18:19 54 Cmd Name ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ReadSectors ReadLong ExtRead No commands blocked (0 of 3)
Results:	Assertion	Expected Results	Actual Results
	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AM-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AM-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	O Commands return success	0 Commands return success
Analysis:	SWB-08 Expe	cted results achieved	

Case SWB-09 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
Case summary:	SWB-09 Install one drive, configure return code to failure, protect all		
	drives, execute information commands.		
Assertions	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 no		
	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 14:38:32 2003		
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors		
Used:			
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
executed:	tally13		
	hdl7 0		
	test-hdl SWB-09 HecRamsey SN i 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 14:38:25) Going TSR		
	***** Install HDL Log *****		

Case SWB-09 HDL	Int 13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Police		
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED		
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 1 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
		e Block successfully installe	ed.
		Harness Log *****	1 2 17/
	CMD: A: (TES)	T-HDL.EXE SWB-09 HecRamsey SN o	1 I E4
		: Information	
		ct 02 14:38:32 2003	
	Date: Ind O	CC 02 14:36:32 2003	
	Version: 0/	#) test-hdl.cop Version 1 1 C	reated 08/23/03 at 10:13:51
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19		
	Compiled on Aug 31 2003 at 08:10:54		
	Operator: SN		
	Host: HecRamsey		
	Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-09 <01> 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-09 <04> 80 Allowed 0000 Off 1 VerifySectors 2 SWB-09 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-09 <10> 80 Allowed 0000 Off 1 TestDriveReady 4 SWB-09 <15> 80 Blocked 0300 On 0 ReadDriveType 5 SWB-09 <41> 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-09 <44> 80 Allowed 0000 Off 1 VerifySectors 7 SWB-09 <48> 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-09 category i on drive 80 Not all commands blocked (1 of 8)		
	Summary: 8 sent, 1 blocked, 7 not blocked		
Desults	3	Books of Decolle	Datus I Passilta
Results:	Assertion AM-06	Expected Results No cmds to drive 80	Actual Results Not all cmds to drive 80
	MM-00	blocked	blocked
	AM-07		
		Tool active message 1 drives identified	Tool active message 1 drives identified
	AM-08		
	AM-09	Drive 80 is protected	Drive 80 is protected
3 1 ' .	AM-11	1 Commands return fail	1 Commands return fail
Analysis:	SWB-09 Expe	cted results not achieved for	assertions: AM-U6

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		
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 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		

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

Case SWB-10 HDL	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	0 SWB-10 1 SWB-10 2 SWB-10 3 SWB-10 4 SWB-10 5 SWB-10 6 SWB-10 7 SWB-10 Results for 8)	<08> 84 Allowed 0000 Off <10> 84 Allowed 0000 Off <15> 84 Blocked 0000 Off <41> 84 Allowed 0000 Off <44> 84 Allowed 0000 Off <48> 84 Allowed 0000 Off	1 GetLastStatus 1 VerifySectors 1 ReadDriveParms 1 TestDriveReady 0 ReadDriveType 1 CheckForExtensions 1 VerifySectors 1 GetDriveParms 4 Not all commands blocked (1 of
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	blocked
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-09	Drive 84 is protected	Drive 84 is protected
	AM-10	5 Commands return success	5 Commands return success
Analysis:	SWB-10 Expe	cted results not achieved for	assertions: AM-06

Case SWB-11 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case summary:	SWB-11 Install two drives, configure return code to failure, protect all
	drives, execute control commands.
Assertions	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
	hd17 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 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Royal Canadian Mounted Police			
	UNAU'	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED		
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 2 Hard-Disks reported by Int_13h Hard-Disk 0			
	_	iled on Aug 31 2003 at 08:10	:54	
	Operator: Si			
	Host: HecRamsey Number of drives 2, Drives: 64 E4			
		Cmd Drv Action Stat Cry Coun	it Cmd Name	
	0 SWB-11 <00> 80 Allowed 0000 Off 1 Reset			
	1 SWB-11 <	1 SWB-11 <oc> 80 Allowed 0000 Off 1 SeekDrive</oc>		
	2 SWB-11 <od> 80 Allowed 0000 Off 1 AltReset</od>			
	3 SWB-11 <11> 80 Allowed 0000 Off			
	4 SWB-11 <47> 80 Blocked 0300 On 0 ExtendedSeek			
	Results for SWB-11 category c on drive 80 Not all commands blocked (1 of 5)			
	0 SWB-11 <00> 81 Allowed 0000 Off 1 Reset			
	1 SWB-11 <	1 SWB-11 <oc> 81 Allowed 0000 Off 1 SeekDrive</oc>		
	2 SWB-11 <od> 81 Allowed 0000 Off 1 AltReset</od>			
	2 SWB-11 <0D> 81 Allowed 0000 Off 1 AltReset 3 SWB-11 <11> 81 Allowed 0000 Off 1 Recalibrate			
	4 SWB-11 <47> 81 Blocked 0300 On 0 ExtendedSeek			
	Results for SWB-11 category c on drive 81 Not all commands blocked (1 of			
	5)			
	Summary: 10 sent, 2 blocked, 8 not blocked			
Results:	Assertion	Expected Results	Actual Results	
	AM-05	No cmds to drive 80	Not all cmds to drive 80	
	7M 0F	blocked	blocked	
	AM-05	No cmds to drive 81	Not all cmds to drive 81	
	7M 07	blocked	blocked magazage	
	AM-07	Tool active message	Tool active message	
	AM-08	2 drives identified	2 drives identified	
	AM-09	Drive 80 is protected	Drive 80 is protected	
	AM-09	Drive 81 is protected	Drive 81 is protected	
	AM-11	2 Commands return fail	2 Commands return fail	
Analysis:	SWB-11 Exped	cted results not achieved for	assertions: AM-05	

Case SWB-12 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case summary:	SWB-12 Install one drive, configure return code to success, protect all
	drives, execute control commands.
Assertions	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 Used:	Drive 80, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors

Case SWB-12 HDL	Int 13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
Commands	Boot Test P	C to (DOS 7.1) Windows 98 [Ve	rsion 4.10.2222]
executed:	tally13		
	hdl7 S0		
	test-hdl SW	B-12 HecRamsey SN c E4	
	Shutdown Te	st 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 14:41:49) Going TSR		
			7
			28:05
			TSR
	***** Insta	ll HDL Log *****	
	HDL Int 13 Hard Disk Write Lock VO.7 010610 (c) RCMP 1993-2001		010610 (c)RCMP 1993-2001
		Royal Canadian Mounted P	
		THORIZED USE / DISTRIBUTION	
	Lice	nsee: U.S. DoC - NIST - Compu	ter Forensic Tool Test
		ard-Disks reported by Int 13h	
		-Disk 0 Locked!	
	Write	e Block successfully installe	ed.
		Harness Log ****	
	CMD: A:\TEST-HDL.EXE SWB-12 HecRamsey SN c E4		c E4
	Case: SWB-1	=	
	Case. SwB-12 Command set: Control Date: Thu Oct 02 14:41:56 2003		
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: HecRamsey Number of drives 1, Drives: E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-12 <00> 80 Allowed 0000 Off 1 Reset 1 SWB-12 <00> 80 Allowed 0000 Off 1 SeekDrive 2 SWB-12 <0D> 80 Allowed 0000 Off 1 AltReset 3 SWB-12 <11> 80 Allowed 0000 Off 1 Recalibrate 4 SWB-12 <47> 80 Blocked 0000 Off 0 ExtendedSeek Results for SWB-12 category c on drive 80 Not all commands blocked (1 of 5) Summary: 5 sent, 1 blocked, 4 not blocked		
Results:	Assertion	Expected Results	Actual Results
1.000100.	AM-05	No cmds to drive 80	Not all cmds to drive 80
	AM-03	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-10	1 Commands return success	1 Commands return success
Analysis:	SWB-12 Expe	cted results not achieved for	assertions: AM-05

Case SWB-13 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
Case summary:	SWB-13 Install all drives, configure return code to failure, protect with	
	pattern odd, execute write commands.	
Assertions	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.	

Case SWB-13 HDL	Int_13 Ha	ard 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	-	abel 6F is a Maxtor 6Y060L0 wit	
Used:	•	abel 8A is a WDC WD200EB-00CSF	
	-	abel 90 is a WDC WD300BB-00CAA	
		abel 1F is a Quantum ATLAS10K3	_18_SCA Drive with 35916548
	sectors	-h-1 2D 0M20100ED	CCA Duite with 17702040 continue
Commands			-SCA Drive with 17783249 sectors
executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13		51011 4.10.2222]
caccacca.	hd17 13		
		3-13 McCloud SN w 6F 8A 90 1F 2	2B
	Shutdown Tes		-
Log File	**** Monito	or Execution ****	
Highlights:		S interrupt 13h (disk service)	
		mpiled on 07/29/03 at 07:33:17	
	@(#) Version	n 1.1 Created 07/29/03 at 07:28	3:05
	Now (10/02/0	03 at 15:34:18) Going T	SR
		ll HDL Log *****	
	_	13 Hard Disk Write Lock V0.7 0	* ,
		Royal Canadian Mounted Pol	
	UNAU	THORIZED USE / DISTRIBUTION 1	PROHIBITED
	Ŧ * · · ·	THE PAGE NATIONAL CONTRACTOR	The same the manufacture of
		nsee: U.S. DoC - NIST - Compute ard-Disks reported by Int 13h	er rorensic root Test
		-Disk 0 Not Locked!	
		-Disk 1 Locked!	
		-Disk 2 Not Locked!	
		-Disk 3 Locked!	
		-Disk 4 Not Locked!	
		e Block successfully installed	
		Harness Log *****	
	CMD: A:\TES	T-HDL.EXE SWB-13 McCloud SN w	5F 8A 90 1F 2B
	Case: SWB-13	3	
	Command set	: Write	
	Date: Thu O	ct 02 15:34:25 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</pre>		08/31/03 at 08:18:19
	Host: McClo		
	Number of da	rives 5, Drives: 6F 8A 90 1F 2B	3
		Cmd Drv Action Stat Cry Count	
		<03> 80 Allowed 0000 Off 1	
			WriteLong
			ExtWrite
		SWB-13 category w on drive 80 <03> 81 Blocked 0300 On 0	WriteSectors
			WriteLong
			ExtWrite
		SWB-13 category w on drive 81	
			WriteSectors
			WriteLong
	2 SWB-13 ·	<43> 82 Allowed 0000 Off 1	ExtWrite
		SWB-13 category w on drive 82	No commands blocked (0 of 3)
			WriteSectors
			WriteLong
			ExtWrite
		SWB-13 category w on drive 83	
			WriteSectors
			WriteLong ExtWrite
		SWB-13 category w on drive 84	
		sent, 6 blocked, 9 not blocked	
	1 2	Expected Results	Actual Results
Results:	Assertion		
Results:	AM-07	Tool active message	Tool active message
Results:			

	Assertion	Expected Results	Actual Results
	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 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:	tally13
	hdl7 S01
	test-hdl SWB-14 McCloud SN w 6F 8A 90 1F 2B
Log File	Shutdown Test PC ***** 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
	OMIGNIAND ODE / DISTRIBUTION TROUBLED
	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

	IDL Int 13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001	
		#) test-hdl.cpp Version 1.1 Cre		
	@ (#)	@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19		
	Comp	Compiled on Aug 31 2003 at 08:10:54		
	Operator: S	N		
	Host: McClo	ud		
	Number of d	rives 5, Drives: 6F 8A 90 1F 2F	3	
	Case	Cmd Drv Action Stat Cry Count	Cmd Name	
		<03> 80 Blocked 0000 Off 0		
		<0B> 80 Blocked 0000 Off 0		
		<43> 80 Blocked 0000 Off 0		
		SWB-14 category w on drive 80		
		<03> 81 Blocked 0000 Off 0		
	1 SWB-14	<pre><0B> 81 Blocked 0000 Off 0</pre>	WriteLong	
		<43> 81 Blocked 0000 Off 0		
		SWB-14 category w on drive 81		
		3 2	WriteSectors	
			WriteLong	
	_	<43> 82 Allowed 0000 Off 1		
		SWB-14 category w on drive 82		
		<pre><03> 83 Allowed 0000 Off 1</pre>		
		<43> 83 Allowed 0000 Off 1	WriteLong	
	-			
		SWB-14 category w on drive 83		
		<03> 84 Allowed 0000 Off 1		
	1 SWB-14	<0B> 84 Allowed 0000 Off 1 1	WriteLong	
		SWB-14 category w on drive 84		
	Summary: 13	sent, 6 blocked, 9 not blocked	1	
Results:				
1,000±00.	Assertion	Expected Results	Actual Results	
REDUIES.	AM-07	Tool active message	Tool active message	
INCOULED.		-		
1.054105.	AM-07	Tool active message	Tool active message	
	AM-07 AM-08	Tool active message 5 drives identified	Tool active message 5 drives identified	
ACOULCO.	AM-07 AM-08 AM-09	Tool active message 5 drives identified Drive 80 is protected	Tool active message 5 drives identified Drive 80 is protected	
ACCULCS.	AM-07 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	
ACCUTES.	AM-07 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 unprotected	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected	
ACCUTES.	AM-07 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 unprotected Drive 83 is unprotected	Tool active message 5 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected	
ACCUTES.	AM-07 AM-08 AM-09 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 unprotected Drive 83 is unprotected Drive 84 is unprotected	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	
ACOULCS.	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-01	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	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	
ACCULCO.	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-01 AO-01	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	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	
ACCULCS.	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-01 AO-01 AO-01 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	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	
ACCULCS.	AM-07 AM-08 AM-09 AM-09 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 All cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 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	
Analysis:	AM-07 AM-08 AM-09 AM-09 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	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	

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	

Case SWB-15 HDL	Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
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 OM30100TD=SCA Drive with 17783249 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
	hdl7 0
	test-hdl SWB-15 McCloud SN x 6F 8A 90 1F 2B
13	Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** 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 07:28:05
	Now (10/02/03 at 15:40:30) 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
	OWNOTHOWARD OOF A DISTRIBUTION INCHIRENTED
	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
	1 SWB-15 <06> 80 Blocked 0300 On
	3 SWB-15 <09> 80 Allowed 0000 Off 1 InitDriveParms
	4 SWB-15 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI
	5 SWB-15 <of> 80 Blocked 0300 On</of>
	6 SWB-15 <12> 80 Blocked 0300 On
	7 SWB-15 <13> 80 Blocked 0300 On 0 DiagnosticDrive 8 SWB-15 <14> 80 Blocked 0300 On 0 DiagnosticCTL
	Results for SWB-15 category x on drive 80 Not all commands blocked (7 of
	9)
	0 SWB-15 <05> 81 Allowed 0000 Off 1 FormatTrack
	1 SWB-15 <06> 81 Allowed 0000 Off 1 FormatBadSectors
	2 SWB-15 <07> 81 Allowed 0000 Off 1 FormatCyl 3 SWB-15 <09> 81 Allowed 0000 Off 1 InitDriveParms
	4 SWB-15 <08> 81 Allowed 0000 Off 1 DiagnosticESDI
	5 SWB-15 <of> 81 Allowed 0000 Off 1 DiagnosticESDI</of>
	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 I	Mard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
Case	Cmd Drv Action Stat Cry Count	Cmd Name
0 SWB-15	<05> 83 Allowed 0000 Off	l FormatTrack
1 SWB-15	<06> 83 Allowed 0000 Off	FormatBadSectors
2 SWB-15	<07> 83 Allowed 0000 Off	l FormatCyl
3 SWB-15	<09> 83 Allowed 0000 Off	l InitDriveParms
4 SWB-15	<oe> 83 Allowed 0000 Off</oe>	l DiagnosticESDI
5 SWB-15	<of> 83 Allowed 0000 Off</of>	l DiagnosticESDI
		l DiagnosticRAM
		l DiagnosticDrive
		l DiagnosticCTL
	r SWB-15 category x on drive 83	
		l FormatTrack
		l FormatBadSectors
		l FormatCyl
		l InitDriveParms
		l DiagnosticESDI
		l DiagnosticESDI
		L DiagnosticRAM
		l DiagnosticDrive
		L DiagnosticCTL
	r SWB-15 category x on drive 84 sent, 7 blocked, 38 not block	
Results: Assertion	Expected Results	Actual Results
AM-07	Tool active message	Tool active message
AM-08	5 drives identified	5 drives identified
AM-09	Drive 80 is protected	Drive 80 is protected
AM-09	D 1 01 1 1 1 1 1	
	Drive 81 is unprotected	Drive 81 is unprotected
AM-09	Drive 81 is unprotected Drive 82 is unprotected	Drive 81 is unprotected Drive 82 is unprotected
AM-09 AM-09	-	-
	Drive 82 is unprotected	Drive 82 is unprotected
AM-09	Drive 82 is unprotected Drive 83 is unprotected	Drive 82 is unprotected Drive 83 is unprotected
AM-09 AM-09	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected
AM-09 AM-09 AM-11	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail
AM-09 AM-09 AM-11	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail Not all cmds to drive 80
AM-09 AM-09 AM-11 AO-02	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail All cmds to drive 80 blocked	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail Not all cmds to drive 80 blocked
AM-09 AM-09 AM-11 AO-02 AO-07	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	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail Not all cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked
AM-09 AM-09 AM-11 AO-02 AO-07 AO-07	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	Drive 82 is unprotected Drive 83 is unprotected Drive 84 is unprotected 7 Commands return fail Not all cmds to drive 80 blocked No cmds to drive 81 blocked No cmds to drive 82 blocked No cmds to drive 83 blocked

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-A0-02. 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 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-16 HDI	L Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13 hd17 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: 180 Oct 02 13.43.31 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
	3 SWB-16 <09> 80 Allowed 0000 Off 1 InitDriveParms
	4 SWB-16 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI
	5 SWB-16 <0F> 80 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-16 <12> 80 Allowed 0000 Off 1 DiagnosticRAM
	7 SWB-16 <13> 80 Allowed 0000 Off 1 DiagnosticDrive
	8 SWB-16 <14> 80 Allowed 0000 Off 1 DiagnosticCTL
	Results for SWB-16 category x on drive 80 No commands blocked (0 of 9)
	0 SWB-16 <05> 81 Allowed 0000 Off 1 FormatTrack
	1 SWB-16 <06> 81 Allowed 0000 Off 1 FormatBadSectors
	2 SWB-16 <07> 81 Allowed 0000 Off 1 FormatCyl
	3 SWB-16 <09> 81 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI
	5 SWB-16 <0F> 81 Allowed 0000 Off 1 DiagnosticESDI
	6 SWB-16 <12> 81 Allowed 0000 Off 1 DiagnosticRAM
	7 SWB-16 <13> 81 Allowed 0000 Off 1 DiagnosticDrive
	8 SWB-16 <14> 81 Allowed 0000 Off 1 DiagnosticCTL
	Results for SWB-16 category x on drive 81 No commands blocked (0 of 9)
	0 SWB-16 <05> 82 Blocked 0000 Off 0 FormatTrack
	1 SWB-16 <06> 82 Blocked 0000 Off 0 FormatBadSectors 2 SWB-16 <07> 82 Blocked 0000 Off 0 FormatCyl
	3 SWB-16 <09> 82 Allowed 0000 Off 1 InitDriveParms
	4 SWB-16 <0E> 82 Allowed 0000 Off 1 DiagnosticESDI
	5 SWB-16 <of> 82 Blocked 0000 Off</of>
	6 SWB-16 <12> 82 Blocked 0000 Off 0 DiagnosticRAM
	7 SWB-16 <13> 82 Blocked 0000 Off
	8 SWB-16 <14> 82 Blocked 0000 Off 0 DiagnosticCTL
	Results for SWB-16 category x on drive 82 Not all commands blocked (7 of 9)
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Case SWB-16 HDL	Int_13 Ha	rd Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
	Case C	Cmd Drv Action Stat Cry Count	Cmd Name
0	SWB-16 <	(05> 83 Allowed 0000 Off	L FormatTrack
1	SWB-16 <	(06> 83 Allowed 0000 Off	FormatBadSectors
2	SWB-16 <	(07> 83 Allowed 0000 Off	l FormatCyl
3	SWB-16 <	(09> 83 Allowed 0000 Off	l InitDriveParms
			l DiagnosticESDI
5	SWB-16 <	OF> 83 Allowed 0000 Off	l DiagnosticESDI
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
Res	ults 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 <	(06> 84 Allowed 0000 Off	L FormatBadSectors
2	SWB-16 <	(07> 84 Allowed 0000 Off	l FormatCyl
3	SWB-16 <	(09> 84 Allowed 0000 Off	l InitDriveParms
			l DiagnosticESDI
			l DiagnosticESDI
6	SWB-16 <	(12> 84 Allowed 0000 Off	l DiagnosticRAM
			l DiagnosticDrive
			l DiagnosticCTL
			No commands blocked (0 of 9)
		sent, 7 blocked, 38 not block	
Results: As	ssertion	Expected Results	Actual Results
AM	1-07	Tool active message	Tool active message
AM	1-08	5 drives identified	5 drives identified
AM	1-09	Drive 80 is unprotected	Drive 80 is unprotected
AM	1-09	Drive 81 is unprotected	Drive 81 is unprotected
AM	1-09	Drive 82 is protected	Drive 82 is protected
AM	1-09	Drive 83 is unprotected	Drive 83 is unprotected
AM	1-09	Drive 84 is unprotected	Drive 84 is unprotected
AM	1-10	7 Commands return success	7 Commands return success
AC	0-02	All cmds to drive 82	Not all cmds to drive 82
		blocked	blocked
AC	0-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
AC	0-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
 	0-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
<u> </u>	0-07	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Analysis: SWB	-16 Expec	eted results not achieved for	

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
	<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-03. If a subset of all covered drives is specified for protection,
	then commands from the miscellaneous category shall be blocked for
	drives in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:46:49 2003
Test PC:	McCloud
Test Software:	SWBT 1.0
Hard Drives	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 1
	test-hdl SWB-17 McCloud SN m 6F 8A 90 1F 2B
	Shutdown Test PC

```
Case SWB-17 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 } 15:46:42) 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
                         misc commands 17-FD results omitted
                         see log files for full results
                                                    1 Undefined
                226 SWB-17 <FE> 80 Allowed 0000 Off
                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
                                                    0 Undefined
0 Undefined
                226 SWB-17 <FE> 81 Blocked 0300 On
                227 SWB-17 <FF> 81 Blocked 0300 On
                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
                                                    1 Undefined
                226 SWB-17 <FE> 82 Allowed 0000 Off
                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
                                                    1 Undefined
                226 SWB-17 <FE> 83 Allowed 0000 Off
                227 SWB-17 <FF> 83 Allowed 0000 Off
                                                       1 Undefined
                Results for SWB-17 category m on drive 83 No commands blocked (0 of 228)
```

Case SWB-17 HD	L Int_13 H	ard Disk Write Lock V0.7 010610	0 (c)RCMP 1993-2001
	Case	Cmd Drv Action Stat Cry Count	Cmd Name
	0 SWB-17	<16> 84 Allowed 0000 Off 1	Undefined
			_
	mi	sc commands 17-FD results omit	ted
	80	e log files for full results	
	36	e log liles for full results	
		<fe> 84 Allowed 0000 Off 1</fe>	
		<ff> 84 Allowed 0000 Off 1</ff>	
	Results for	SWB-17 category m on drive 84	No commands blocked (0 of 228)
	Summary: 11	40 sent, 228 blocked, 912 not 1	blocked
	Summary: 11	40 sent, 228 blocked, 912 not l	blocked
	Summary: 11	40 sent, 228 blocked, 912 not b	blocked
Results:	Summary: 11 Assertion	40 sent, 228 blocked, 912 not 1	blocked Actual Results
Results:			
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08	Expected Results Tool active message 5 drives identified	Actual Results Tool active message 5 drives identified
Results:	Assertion AM-07 AM-08 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected	Actual Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is unprotected Drive 81 is protected 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	Expected Results 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	Actual Results 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:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11	Expected Results 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	Actual Results 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
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-01 AM-09	Expected Results 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	Actual Results 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:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-07	Expected Results 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	Actual Results 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:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 A0-03 A0-07 A0-07	Expected Results 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	Actual Results 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

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 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 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
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 15:24:48) 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
                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)
```

Case SWB-18 HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	Case	Cmd Drv Action Stat Cry Count	Cmd Name
	0 SWB-18	<16> 83 Allowed 0000 Off 1	Undefined
	mi	sc commands 17-FD results omit	ted
	se	e log files for full results	
		<pre><fe> 83 Allowed 0000 Off</fe></pre>	
	Results for	SWB-18 category m on drive 83	No commands blocked (0 of 228)
	Summary: 91	2 sent, 684 blocked, 228 not bl	locked
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 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 protected	Tool active message 4 drives identified Drive 80 is protected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected	Tool active message 4 drives identified Drive 80 is protected 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 protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-03	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success All cmds to drive 80 blocked	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success All cmds to drive 80 blocked
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-03 AO-03	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success All cmds to drive 80 blocked All cmds to drive 81 blocked	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 684 Commands return success All cmds to drive 80 blocked All cmds to drive 81 blocked

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
	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 PROFIBILED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test

### ### #### #### #### ###############	Case SWB-19 HDL	Int 13 H	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
Hard-Disk 1 Not Locked!				
### Hard—Disk 2 Not Locked! ### Hard—Disk 3 Locked! ### Hard—Disk 3 Locked! ### Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST=HDL_EXE SWB—19 wimsey SN r 6F 90 1F 2B Case: SWB—19 Command set: Read Date: Thu Oct 02 15:27:19 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—19 <02> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB—19 <02> 80 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <42> 80 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 1 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 81 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 82 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 3 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 4 Results for SWB—19 category ron drive 82 No commands blocked (0 of 3) 0 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 2 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 3 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 4 Results for SWB—19 category ron drive 82 blocked (0 of 3) 0 SWB—19 <02> 83 Allowed 0000 0ff 1 ReadCong 4 Results for SWB—19 category ron drive 82 blocked (0 of 3) 0 SWB—19 <02> 83 SWB—19 <02 SWB—19 <02 SWB—19 <02 SWB—19 <02		Hard	-Disk 0 Not Locked!	
Hard-Disk 3 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:YYEST-HDL.EXE SWB-19 Wimsey SN r 6F 90 1F 2B Case: SWB-19 Command set: Read Date: Thu Oct Oz 15:27:19 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51		Hard	-Disk 1 Not Locked!	
### Test Harness Log ***** CMD: A:\TesT=HDL.EXE SWB-19 Wimsey SN r 6F 90 1F 2B Case: SWB-19 Command set: Read Date: Thu Oct 02 15:27:19 2003 Version: 0:(#) 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-19 <02> 80 Allowed 0000 off 1 ReadSectors 1 SWB-19 <0.80 Allowed 0000 off 1 ReadLong 2 SWB-19 <42> 80 Allowed 0000 off 1 ExtRead Results for SWB-19 category r on drive 80 No commands blocked (0 of 3) 0 SWB-19 <02> 81 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 off 1 ReadSectors 1 SWB-19 <02> 83 Allow		Hard	-Disk 2 Not Locked!	
***** Test Harness Log ****** CMD: A:\Test=ThDL.EXE SWB-19 Wimsey SN r 6F 90 1F 2B Case: SWB-19 Command set: Read Date: Thu Oct 02 15:27:19 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-19 <02> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 80 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 81 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 81 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 81 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 81 Allowed 0000 0ff 1 ReadSectors 2 SWB-19 <4A> 81 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A 83 Allowed 0000 0ff 1 ReadSectors 1 SWB-19 <0A 83 Al		Hard	-Disk 3 Locked!	
CMD: A:YDEST-HDL.EXE SWB-19 Wimsey SN r 6F 90 1F 2B Case: SWB-19 Command set: Read Date: Thu Oct 02 15:27:19 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51			2	d.
Case: SMB-19 Command set: Read Date: Thu Oct 02 15:27:19 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51			2	
Command set: Read Date: Thu Oct 02 15:27:19 2003				6F 90 1F 2B
Date: Thu Oct 02 15:27:19 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 8 (#) 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			-	
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				
Q(#) 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		Date: Thu O	ct 02 15:27:19 2003	
Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-19 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 80 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 80 No commands blocked (0 of 3) 0 SWB-19 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 81 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 81 No commands blocked (0 of 3) 0 SWB-19 <02> 82 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 81 No commands blocked (0 of 3) 0 SWB-19 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 82 Allowed 0000 Off 1 ReadSectors 2 SWB-19 <42> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <03> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <042> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-		@(#) Comp Operator: S	wb-defs.h Version 1.2 Create piled on Aug 31 2003 at 08:10: N	d 08/31/03 at 08:18:19
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Results for SWB-19 category r on drive 80 No commands blocked (0 of 3) 0 SWB-19 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 81 No commands blocked (0 of 3) 0 SWB-19 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 Off 1 ReadSectors 2 SWB-19 <42> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 Off 1 ReadSectors 2 SWB-19 <42> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 Off 1 ReadSectors 2 SWB-19 <42> 83 Allowed 0000 Off 1 ReadSectors 2 SWB-19 <42> 83 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 83 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 83 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 0 blocked, 12 not blocked Results: Assertion Expected Results				
Results: Assertion Expected Results Actual Results				
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Results: Assertion Expected Results Actual Results				
Results for SWB-19 category r on drive 82 No commands blocked (0 of 3) 0 SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 83 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 0 blocked, 12 not blocked Results: Assertion Expected Results Actual Results		0 SWB-19	<02> 82 Allowed 0000 Off	l ReadSectors
O SWB-19 <02> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 83 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 83 Allowed 0000 Off 1 ExtRead Results for SWB-19 category r on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 0 blocked, 12 not blocked Results: AM-07 Tool active message Tool active message AM-08 4 drives identified 4 drives identified AM-09 Drive 80 is unprotected Drive 80 is unprotected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 81 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		2 SWB-19	<42> 82 Allowed 0000 Off	l ExtRead
Results: Assertion Expected Results Actual Results		0 SWB-19 1 SWB-19	<02> 83 Allowed 0000 Off <0A> 83 Allowed 0000 Off	l ReadSectors l ReadLong
Results: Assertion Expected Results Actual Results AM-07 Tool active message Tool active message AM-08 4 drives identified 4 drives identified AM-09 Drive 80 is unprotected Drive 80 is unprotected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail A0-04 No cmds to drive 83 blocked No cmds to drive 83 blocked A0-07 No cmds to drive 80 blocked No cmds to drive 80 blocked A0-07 No cmds to drive 81 blocked No cmds to drive 81 blocked A0-07 No cmds to drive 82 blocked No cmds to drive 82 blocked A0-07 No cmds to drive 82 blocked No cmds to drive 82 blocked A0-07 No cmds to drive 82 blocked No cmds to drive 82 blocked A0-07 No cmds to drive 82 blocked No cmds to drive 82 blocked				
AM-07 Tool active message Tool active message AM-08 4 drives identified 4 drives identified AM-09 Drive 80 is unprotected Drive 80 is unprotected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked				
AM-08 4 drives identified 4 drives identified AM-09 Drive 80 is unprotected Drive 80 is unprotected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked	Results:	Assertion	Expected Results	Actual Results
AM-09 Drive 80 is unprotected AM-09 Drive 81 is unprotected AM-09 Drive 81 is unprotected AM-09 Drive 82 is unprotected AM-09 Drive 83 is protected AM-09 Drive 83 is protected AM-11 Drive 84 is protected AM-11 Drive 84 is protected AM-11 Dr		AM-07	_	Tool active message
AM-09 Drive 80 is unprotected AM-09 Drive 81 is unprotected AM-09 Drive 81 is unprotected AM-09 Drive 82 is unprotected AM-09 Drive 83 is protected AM-09 Drive 83 is protected AM-11 O Commands return fail AO-04 No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked		AM-08	4 drives identified	4 drives identified
AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked		AM-09		
AM-09 Drive 82 is unprotected Drive 82 is unprotected AM-09 Drive 83 is protected Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked		AM-09	1	+
AM-09 Drive 83 is protected AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked		AM-09	-	_
AM-11 0 Commands return fail 0 Commands return fail AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked		AM-09	-	+
AO-04 No cmds to drive 83 blocked No cmds to drive 83 blocked AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked		l ————————————————————————————————————	-	*
AO-07 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked				
AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked				
AO-07 No cmds to drive 82 blocked No cmds to drive 82 blocked				
		AO-07		
	Analugia:	SWB-19 Expe	cted 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.

Case SWB-20 HDL	Int 13 Hard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
Tester Name:	SN	
Test Date:	Thu Oct 02 15:32:00 2003	
Test PC:	Wimsey	
Test Software:	SWBT 1.0	+1 120102200+
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y060L0 w: Drive 81, label 90 is a WDC WD300BB-00CA	
obca.	Drive 82, label 1F is a Quantum ATLAS10K3	
	sectors	
	Drive 83, label 2B is a Quantum QM39100Ti	O-SCA Drive with 17783249 sectors
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	
	Now (10/02/03 at 15:31:57) Going	rsr
	***** Install HDL Log *****	110610 (a) DCMD 1003 2001
	HDL Int_13 Hard Disk Write Lock V0.7 (Royal Canadian Mounted Po	
	UNAUTHORIZED USE / DISTRIBUTION	
	Licensee: U.S. DoC - NIST - Comput	ter Forensic Tool Test
	4 Hard-Disks reported by Int_13h	
	Hard-Disk 0 Locked! Hard-Disk 1 Locked!	
	Hard-Disk 2 Not Locked!	
	Hard-Disk 3 Locked!	
	Write Block successfully installed	d.
	***** Test Harness Log ****	
	CMD: A:\TEST-HDL.EXE SWB-20 Wimsey SN r	5F 90 1F 2B
	Case: SWB-20 Command set: Read	
	Date: Thu Oct 02 15:32:00 2003	
	Date. 1114 Oct 02 13.32.00 2003	
	Version: @(#) 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: Wimsey Number of drives 4, Drives: 6F 90 1F 2B	
	Case Cmd Drv Action Stat Cry Count	. Cmd Name
	0 SWB-20 <02> 80 Allowed 0000 Off	
	1 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	
		l ReadSectors L ReadLong
		L ExtRead
	Results for SWB-20 category r on drive 83	
	0 SWB-20 <02> 82 Allowed 0000 Off	ReadSectors
		ReadLong
	2 SWB-20 <42> 82 Allowed 0000 Off Results for SWB-20 category r on drive 82	ExtRead
		2 NO COMMANDS DIOCKED (U OI 3) L ReadSectors
		l ReadLong
		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
I.courco.	AM-07 Tool active message	Tool active message
	AM-08 4 drives identified	4 drives identified
	AM-09 Drive 80 is protected	Drive 80 is protected
	AM-09 Drive 81 is protected	Drive 81 is protected
	AM-09 Drive 82 is unprotected	Drive 82 is unprotected
	AM-09 Drive 83 is protected	Drive 83 is protected
i .	AM-10 0 Commands return success	0 Commands return success

Case SWB-20 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001				
	Assertion	Expected Results	Actual Results	
	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 SMB-31 HDI	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
case summary:	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.
	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-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 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)
	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
l.	Command set: Information Date: Thu Oct 02 15:34:01 2003
	Date: 180 Oct 02 15:34:01 2005
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
	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
	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
	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
	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

Case SWB-21 HDL	Int_13 Ha	ard Disk Write Lock V	0.7 01061	0 (c)RCMP 1993-2001
	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
	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
		<41> 80 Allowed 0000		CheckForExtensions
		<44> 80 Allowed 0000		VerifySectors
		<48> 80 Allowed 0000		
				No commands blocked (0 of 8)
		<01> 81 Allowed 0000		GetLastStatus
	_	<04> 81 Allowed 0000		2
		<08> 81 Allowed 0000 <10> 81 Allowed 0000		ReadDriveParms
		<10> 81 Allowed 0000 <15> 81 Allowed 0000		±
		<41> 81 Allowed 0000		21
		<44> 81 Allowed 0000		VerifySectors
		<48> 81 Allowed 0000		=
				No commands blocked (0 of 8)
		<01> 82 Allowed 0000		
		<04> 82 Allowed 0000		
		<08> 82 Allowed 0000		-
		<10> 82 Allowed 0000		TestDriveReady
	4 SWB-21	<15> 82 Blocked 0300	On 0) ReadDriveType
	5 SWB-21	<41> 82 Allowed 0000	Off 1	CheckForExtensions
	6 SWB-21	<44> 82 Allowed 0000	Off 1	VerifySectors
		<48> 82 Allowed 0000	Off 1	GetDriveParms
	Results for	SWB-21 category i on	drive 82	Not all commands blocked (1 of 8
	0 SWB-21	<01> 83 Allowed 0000	Off 1	GetLastStatus
	0 SWB-21 1 SWB-21	<01> 83 Allowed 0000 <04> 83 Allowed 0000	Off 1 Off 1	GetLastStatus VerifySectors
	0 SWB-21 1 SWB-21 2 SWB-21	<01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000	Off 1 Off 1 Off 1	GetLastStatus VerifySectors ReadDriveParms
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21	<01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000	Off 1 Off 1 Off 1 Off 1	GetLastStatus VerifySectors ReadDriveParms TestDriveReady
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300</pre>	Off 1 Off 1 Off 1 Off 1 On 0	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 8	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 8	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30</pre> <pre>Expected Results</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 8	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ked
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message</pre>	Off 1 Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 8	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ked Actual Results Tool active message
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30</pre> <pre>Expected Results</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 off 3 not block	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed Actual Results Tool active message 4 drives identified
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 4 Off 5 Off 5 Off 6 Off 6 Off 6 Off 6 Off 7 Off 7 Off 7 Off 8 Off 8	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ked Actual Results Tool active message
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 O	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed Actual Results Tool active message 4 drives identified Drive 80 is unprotected
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 82 is protected</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 O	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 and 1 commands blocked) Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 off show block	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <50 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off cond Off 1 Off	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ded) Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected 2 Commands return face</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off cond Off 1 Off	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 and 1 commands blocked) Actual Results 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:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <588-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected Commands return for No cmds to drive 82</pre>	Offf 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off control Off 1 Off drive 83 Off 1 Off drive 83 Off drive 84 Off dr	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ed Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Commands return fail Not all cmds to drive 82
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 swB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected Commands return for the service of the se</pre>	Off 1 Off 1 Off 1 Off 1 On 0 Off 1 Off con 0 Off 1 Off	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ced Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Commands return fail Not all cmds to drive 82 blocked
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected Commands return for No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80</pre>	Offf 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off con 0 Off 1 Of	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ced Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Drive 83 is protected Commands return fail Not all cmds to drive 82 blocked Not all cmds to drive 83
Results:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 AO-06 AO-06	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <44> 83 Allowed 0000 <44> 83 Allowed 0000 <48> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected 2 Commands return for No cmds to drive 82 blocked No cmds to drive 83 blocked</pre>	Offf 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off con 0 Off 1 Of	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed) Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 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:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 ASSERTION AM-07 AM-08 AM-09	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected 2 Commands return for No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked</pre>	Offf 1 Off 1 Off 1 Off 1 On 0 Off 1 Off 1 Off 1 Off 1 Off 1 Off 1 Off con 0 Off 1 Of	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 ced Actual Results 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
	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 A0-06 A0-07 A0-07	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected 2 Commands return for No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked</pre>	Off 1 Off 4	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed) Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Drive 83 is protected Drive 84 is unprotected Drive 85 is protected Drive 86 is protected Drive 87 is protected Drive 88 is protected Drive 89 is protected Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Drive 84 is protected Drive 85 is protected Drive 86 is protected Drive 87 is protected Drive 88 is protected Drive 89 is protected Drive 80 blocked Not all cmds to drive 80 blocked No cmds to drive 81 blocked
Results: Analysis:	0 SWB-21 1 SWB-21 2 SWB-21 3 SWB-21 4 SWB-21 5 SWB-21 6 SWB-21 7 SWB-21 Results for Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-11 A0-06 A0-07 A0-07	<pre><01> 83 Allowed 0000 <04> 83 Allowed 0000 <08> 83 Allowed 0000 <10> 83 Allowed 0000 <15> 83 Blocked 0300 <15> 83 Blocked 0300 <41> 83 Allowed 0000 <41> 83 Allowed 0000 <44> 83 Allowed 0000 SWB-21 category i on sent, 2 blocked, 30 Expected Results Tool active message 4 drives identified Drive 80 is unproted Drive 81 is unproted Drive 81 is unproted Drive 82 is protected Drive 83 is protected 2 Commands return for No cmds to drive 82 blocked No cmds to drive 83 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked No cmds to drive 80 blocked</pre>	Off 1 Off 4	GetLastStatus VerifySectors ReadDriveParms TestDriveReady ReadDriveType CheckForExtensions VerifySectors GetDriveParms Not all commands blocked (1 of 8 sed) Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Drive 83 is protected Drive 84 is unprotected Drive 85 is protected Drive 86 is protected Drive 87 is protected Drive 88 is protected Drive 89 is protected Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected Drive 83 is protected Drive 84 is protected Drive 85 is protected Drive 86 is protected Drive 87 is protected Drive 88 is protected Drive 89 is protected Drive 80 blocked Not all cmds to drive 80 blocked No cmds to drive 81 blocked

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.

	- 1 40 m 1 - 1 - 1 m 1 - 1 m 7 010010 / 1 m 1 000 0001	
case SWB-22 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
	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 15:36:18 2003	
Test PC: Test Software:	Wimsey	
Hard Drives	SWBT 1.0 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	
Commands	Drive 83, 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 hd17 S123 test-hd1 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	

Case SWB-22 HDL	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	Case	Cmd Drv Action Stat Cry Coun	t Cmd Name
			1 GetLastStatus
	1 SWB-22		1 VerifySectors
	2 SWB-22	<08> 82 Allowed 0000 Off	1 ReadDriveParms
		<10> 82 Allowed 0000 Off	
	4 SWB-22	<15> 82 Blocked 0000 Off	0 ReadDriveType
	5 SWB-22	<41> 82 Allowed 0000 Off <44> 82 Allowed 0000 Off <48> 82 Allowed 0000 Off	1 CheckForExtensions
	6 SWB-22	<44> 82 Allowed 0000 Off	1 VerifySectors
			2 Not all commands blocked (1 of 8)
			1 GetLastStatus
			1 VerifySectors
	2 SWB-22		1 ReadDriveParms
			1 TestDriveReady
	4 SWB-22	<15> 83 Blocked 0000 Off	0 ReadDriveType
	5 SWB-22	<41> 83 Allowed 0000 Off <44> 83 Allowed 0000 Off	1 CheckForExtensions
			1 VerifySectors
	-		1 GetDriveParms
	Results for	SWB-22 category i on drive 8	is Not all commands blocked (L of 8)
D 11 .	Summary: 32	sent, 3 blocked, 29 not bloc	ked
Results:	Summary: 32 Assertion	sent, 3 blocked, 29 not bloc Expected Results	ked Actual Results
Results:	Summary: 32 Assertion AM-07	sent, 3 blocked, 29 not bloc Expected Results Tool active message	Actual Results Tool active message
Results:	Summary: 32 Assertion AM-07 AM-08	sent, 3 blocked, 29 not bloc Expected Results Tool active message 4 drives identified	Actual Results Tool active message 4 drives identified
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09	<pre>sent, 3 blocked, 29 not bloc Expected Results Tool active message 4 drives identified Drive 80 is unprotected</pre>	Actual Results Tool active message 4 drives identified Drive 80 is unprotected
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results 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	Actual Results 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 is protected
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-06	Expected Results 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	Actual Results 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Expected Results 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	Actual Results 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-06	Expected Results 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	Actual Results 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-06	Expected Results 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	Actual Results 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Expected Results 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	Actual Results 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 blocked
Results:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06	Expected Results 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	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected Drive 83 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:	Summary: 32 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-06 AO-06	Expected Results 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	Actual Results 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 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
	<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-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
	then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	SN
Test Date:	Thu Oct 02 15:38:19 2003
Test PC:	Wimsey
Test Software:	SWBT 1.0
Hard Drives	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 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 \text{ 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 <OC> 80 Allowed 0000 Off
                                                       1 SeekDrive
                                                      1 AltReset
                  2 SWB-23 <OD> 80 Allowed 0000 Off
                                                      1 Recalibrate
                  3 SWB-23 <11> 80 Allowed 0000 Off
                  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
                                                      1 AltReset
                  2 SWB-23 <OD> 81 Allowed 0000 Off
                                                      1 Recalibrate
                  3 SWB-23 <11> 81 Allowed 0000 Off
                  4 SWB-23 <47> 81 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-23 category c on drive 81 No commands blocked (0 of 5)
                  0 SWB-23 <00> 82 Allowed 0000 Off 1 Reset
                  1 SWB-23 <OC> 82 Allowed 0000 Off
                                                      1 SeekDrive
1 AltReset
                  2 SWB-23 <0D> 82 Allowed 0000 Off
                                                      1 Recalibrate
                  3 SWB-23 <11> 82 Allowed 0000 Off
                  4 SWB-23 <47> 82 Blocked 0300 On
                                                       0 ExtendedSeek
                Results for SWB-23 category c on drive 82 Not all commands blocked (1 of
                  0 SWB-23 <00> 83 Allowed 0000 Off
                                                        1 Reset
                  1 SWB-23 <0C> 83 Allowed 0000 Off
                                                       1 SeekDrive
                  2 SWB-23 <0D> 83 Allowed 0000 Off
                                                        1 AltReset
                                                      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
                            Drive 80 is protected
                                                         Drive 80 is protected
                 AM-09
                                                         Drive 81 is unprotected
                 AM-09
                            Drive 81 is unprotected
                                                         Drive 82 is protected
                 AM-09
                            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
                 AO-05
                            No cmds to drive 82
                                                         Not all cmds to drive 82
                            blocked
                                                         blocked
```

Case SWB-23 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c) RCMP 1993-2001				
	Assertion	Expected Results	Actual Results	
	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	cted 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	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13 hdl7 S02 test-hdl SWB-24 Wimsey SN c 6F 90 1F 2B Shutdown Test PC
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 15:40:47) 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 2 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

l l	Int_13 Ha	ard Disk Write Lock V0.7 0106	10 (c)RCMP 1993-2001
	Case	Cmd Drv Action Stat Cry Coun	t Cmd Name
	0 SWB-24	<00> 80 Allowed 0000 Off	1 Reset
	1 SWB-24	<pre><0C> 80 Allowed 0000 Off <0D> 80 Allowed 0000 Off</pre>	1 SeekDrive
	2 SWB-24	<ud> 80 Allowed 0000 Off</ud>	1 AltReset
	3 SWB-24	<11> 80 Allowed 0000 Off	l Recalibrate
		<47> 80 Blocked 0000 Off	
			0 Not all commands blocked (1 of 5)
			1 Reset
	1 SWB-24	<0C> 81 Allowed 0000 Off	1 SeekDrive
		<0D> 81 Allowed 0000 Off	
		<11> 81 Allowed 0000 Off	
		<47> 81 Allowed 0000 Off	
			1 No commands blocked (0 of 5)
			1 Reset 1 SeekDrive
		<0D> 82 Allowed 0000 Off	1 Recalibrate
	3 SWB-24	<11> 82 Allowed 0000 Off <47> 82 Blocked 0000 Off	1 Recalibrate
			2 Not all commands blocked (1 of 5)
		<pre>< SWB-24 Category C on drive 8 <00> 83 Allowed 0000 Off</pre>	
	1 SWD-24	<pre><0C> 63 Allowed 0000 Off</pre>	1 AltReset
	2 SWD=24		1 Recalibrate
		<47> 83 Allowed 0000 Off	
			3 No commands blocked (0 of 5)
			3 NO COMMAND DIOCKCO (O OI 3)
l i	Summary: 20	sent, 2 blocked, 18 not bloc	ked
	_		
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08	Expected Results Tool active message 4 drives identified	Actual Results Tool active message 4 drives identified
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected
Results:	Assertion AM-07 AM-08 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success No cmds to drive 80	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success 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-05	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-05	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-05 AM-10 AO-05	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected 2 Commands return success No cmds to drive 80 blocked No cmds to drive 82 blocked	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-05 AM-10 AO-05	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected 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	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 83 is unprotected 2 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 82 blocked
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-07 AM-10 AO-05 AO-05	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected 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	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected 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

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.
	SWB-AM-11. If the tool is configured to return fail on blocked commands
	and the tool blocks a command then the return code shall indicate
	unsuccessful command execution.
	SWB-AO-01. If a subset of all covered drives is specified for protection,
	then commands from the write category shall be blocked for drives in
	the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.
Tester Name:	JRL
Test Date:	Thu Oct 02 12:56:03 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives	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	Int 13 Hard	Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
Commands	Boot Test PC t	o (DOS 7.1) Windows 98 [Vers	sion 4.10.2222]
executed:	tally13		
	hd17 0		
		5 Rumpole JRL w 90 8A 2B	
	Shutdown Test		
Log File		Execution *****	
Highlights:		nterrupt 13h (disk service)	
		led on 07/29/03 at 07:33:17	
		.1 Created 07/29/03 at 07:28	
	Now (10/02/03 at 12:56:00) Going TSR ***** Install HDL Log ***** HDL Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
	_		
		oyal Canadian Mounted Pol RIZED USE / DISTRIBUTION N	
	UNAUINO	RIZED USE / DISTRIBUTION I	NONIBILED
	Ticense	e: U.S. DoC - NIST - Compute	ar Forencia Tool Test
		-Disks reported by Int 13h	er rolensic foor fest
		sk 0 Locked!	
		sk 1 Not Locked!	
		sk 2 Not Locked!	
		clock successfully installed	
		ness Log ****	
		DL.EXE SWB-25 Rumpole JRL w	90 8A 2B
	Case: SWB-25	-	
	Command set: W	rite	
	Date: Thu Oct	02 12:56:03 2003	
		test-hdl.cpp Version 1.1 Cre	
		o-defs.h Version 1.2 Created	
	_	ed on Aug 31 2003 at 08:10:5	4
	Operator: JRL		
	Host: Rumpole	2 D 00 07 0D	
		es 3, Drives: 90 8A 2B	Cond. Mana
		Drv Action Stat Cry Count > 80 Blocked 0300 On 0	
	2 SMB-25 <03	> 80 Blocked 0300 On 0 > 80 Blocked 0300 On 0	WilceLong FytWrita
			All commands blocked (3 of 3)
		> 81 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors
	1 SWB-25 <0B	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong
	1 SWB-25 <0B 2 SWB-25 <43	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 PB-25 category w on drive 81	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite
Pagulta	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **pected Results bol active message	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen Assertion Exam-07 To AM-08 3	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Rected Results** col active message drives identified	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen Assertion Exam-07 To AM-08 3 AM-09 Dr	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Rected Results** pol active message drives identified rive 80 is protected	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION EN AM-07 To AM-08 3 AM-09 Dr AM-09 Dr	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked spected Results col active message drives identified cive 80 is protected cive 81 is unprotected	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <0B 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION EX AM-07 To AM-08 3 AM-09 Dr AM-09 Dr AM-09 Dr AM-09 Dr	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Spected Results** **Spected Results** **Dol active message drives identified rive 80 is protected rive 81 is unprotected rive 82 is unprotected	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <08 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION ED AM-07 To AM-08 3 AM-09 Do AM-09 Do AM-09 Do AM-09 Do AM-11 3	> 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Spected Results** **Species R	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected 3 Commands return fail
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <08 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION ED AM-07 To AM-08 3 AM-09 Do AM-09 Do AM-09 Do AM-09 Do AM-11 3 AO-01 A3	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Rected Results** pol active message drives identified cive 80 is protected rive 81 is unprotected cive 82 is unprotected Commands return fail 11 cmds to drive 80 blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected 3 Commands return fail All cmds to drive 80 blocked
Results:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <08 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION ED AM-07 TC AM-08 3 AM-09 DC AM-09 DC AM-09 DC AM-09 DC AM-11 3 AO-01 AD AO-07 NC	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Spected Results** **Dool active message drives identified rive 80 is protected rive 81 is unprotected rive 82 is unprotected Commands return fail 11 cmds to drive 80 blocked comds to drive 81 blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected 3 Commands return fail All cmds to drive 80 blocked No cmds to drive 81 blocked
	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <08 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION ED AM-07 TC AM-08 3 AM-09 DC AM-09 DC AM-09 DC AM-09 DC AM-11 3 AO-01 AD AO-07 NC AO-07 NC	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Spected Results** bol active message drives identified rive 80 is protected rive 81 is unprotected rive 82 is unprotected Commands return fail 11 cmds to drive 80 blocked of cmds to drive 81 blocked of cmds to drive 82 blocked of cmds to drive 82 blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected 3 Commands return fail All cmds to drive 80 blocked
Results: Analysis:	1 SWB-25 <0B 2 SWB-25 <43 Results for SW 0 SWB-25 <03 1 SWB-25 <08 2 SWB-25 <43 Results for SW Summary: 9 sen ASSERTION ED AM-07 TC AM-08 3 AM-09 DC AM-09 DC AM-09 DC AM-09 DC AM-11 3 AO-01 AD AO-07 NC AO-07 NC	> 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 > 81 Allowed 0000 Off 1 B-25 category w on drive 81 > 82 Allowed 0000 Off 1 B-25 category w on drive 82 t, 3 blocked, 6 not blocked **Spected Results** **Dool active message drives identified rive 80 is protected rive 81 is unprotected rive 82 is unprotected Commands return fail 11 cmds to drive 80 blocked comds to drive 81 blocked	All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected 3 Commands return fail All cmds to drive 80 blocked No cmds to drive 81 blocked

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.		

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case SWB-26 HDI	Int 13 Hard Disk Write Lock V0.7 010610			
	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			
	the selected subset.	bhair be brocked for drives in		
	SWB-AO-07. If a subset of all covered driv	ves is specified for protection.		
	then no commands from any category sh			
	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-			
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Ver:	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	0.05		
	@(#) Version 1.1 Created 07/29/03 at 07:28 Now (10/02/03 at 12:57:52) Going Ts			
	***** Install HDL Log *****	>11		
	HDL Int 13 Hard Disk Write Lock V0.7 03	10610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Pol			
	UNAUTHORIZED USE / DISTRIBUTION			
	OMIGINORIES OF A STOLKESOTION	110111111111111111111111111111111111111		
	Licensee: U.S. DoC - NIST - Compute	er Forensic Tool Test		
	3 Hard-Disks reported by Int 13h			
	Hard-Disk O Not Locked!			
	Hard-Disk 1 Locked!			
	Hard-Disk 2 Not Locked!			
	Write Block successfully installed			
	***** Test Harness Log *****			
	CMD: A:\TEST-HDL.EXE SWB-26 Rumpole JRL w	90 8A 2B		
	Case: SWB-26			
	Command set: Write			
	Date: Thu Oct 02 12:57:55 2003			
	Margian, Q(#) togt hill and Margian 1 1 C.	22+24 00/22/02 2+ 10.12.51		
	Version: @(#) test-hdl.cpp Version 1.1 Cre			
	@(#) wb-defs.h Version 1.2 Created			
	Compiled on Aug 31 2003 at 08:10:5 Operator: JRL	얼		
	Host: Rumpole			
	Number of drives 3, Drives: 90 8A 2B			
	Case Cmd Drv Action Stat Cry Count	Cmd Name		
	-	WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 80			
		WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 81	All commands blocked (3 of 3)		
	0 SWB-26 <03> 82 Allowed 0000 Off 1	WriteSectors		
		WriteLong		
		ExtWrite		
	Results for SWB-26 category w on drive 82			
	Summary: 9 sent, 3 blocked, 6 not blocked			
i .	ļ., <u>, , , , , , , , , , , , , , , , , , </u>	Potrol Populi		
Dogults:		Actual Results		
Results:	Assertion Expected 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:	AM-07 Tool active message AM-08 3 drives identified AM-09 Drive 80 is unprotected	Tool active message 3 drives identified Drive 80 is unprotected		
Results:	AM-07 Tool active message AM-08 3 drives identified	Tool active message 3 drives identified		

Case SWB-26 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Assertion	Expected Results	Actual Results
		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	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.
Tester Name:	JRL
Test Date:	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 hdl7 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 V0.7 010610 (c)RCMP 1993-2001 Royal Canadian Mounted Police
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int 13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Not Locked!
	Hard-Disk 2 Locked!
	Write Block successfully installed.
	***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-27 Rumpole JRL w 90 8A 2B
	Case: SWB-27
	Command set: Write Date: Thu Oct 02 12:59:52 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54
	Operator: JRL
	Host: Rumpole
	Number of drives 3, Drives: 90 8A 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-27 <03> 80 Allowed 0000 Off 1 WriteSectors
	1 SWB-27 <0B> 80 Allowed 0000 Off 1 WriteLong
	2 SWB-27 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-27 category w on drive 80 No commands blocked (0 of 3)
	Results for SWD 27 Category w on drive SV No Commands Diocked (U OI 3)

Case SWB-27 HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	0 SWB-27 1 SWB-27 2 SWB-27 Results for 0 SWB-27 1 SWB-27 2 SWB-27 Results for	Cmd Drv Action Stat Cry Count <03> 81 Allowed 0000 Off 1 <08> 81 Allowed 0000 Off 1 <09> 81 Allowed 0000 Off 1 <09< 81 Allowed 0000 Off 1 <09< 82 Blocked 0300 On 0 <09> 82 Blocked 0300 On 0 <09> 82 Blocked 0300 On 0 <09< 82 Blocked 0300 On 0 <00 <000 <09< 82 Blocked 0300 On 0 <00 <000 <000 <000 <000 <000 <00	WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors 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 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
	AO-07	NO CHIAS CO ALIVE OF DIOCKCA	NO CHAS CO ALIVE OF DIOCKCA

W	SWB-28 Install three drives, configure return code to success, protect
W	
	with pattern UPP, execute write commands.
Assertions S	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
S	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
S	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.
S	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,
5	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: J	JRL
Test Date: T	Thu Oct 02 13:01:53 2003
Test PC: R	Rumpole
Test Software: S	SWBT 1.0
Hard Drives D	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors
	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
	Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
	tally13
	nd17 S12
	test-hdl SWB-28 Rumpole JRL w 90 8A 2B Shutdown Test PC
	***** Monitor Execution *****
	Monitor BIOS interrupt 13h (disk service)
	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now (10/02/03 at 13:01:51) Going TSR
	***** Install HDL Log ****
	HDL Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
	Royal Canadian Mounted Police
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
	3 Hard-Disks reported by Int 13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	Write Block successfully installed.
*	***** Test Harness Log *****
C	CMD: A:\TEST-HDL.EXE SWB-28 Rumpole JRL w 90 8A 2B

Case SWB-28 HDL Int	_13 Hard Disk Write Lock V0.7 (010610 (c)RCMP 1993-2001	
Case:	Case: SWB-28		
	Command set: Write		
Date:	Date: Thu Oct 02 13:01:53 2003		
Operar Host: Number 0 Si 1 Si 2 Si Resul 0 Si 1 Si 2 Si Resul 0 Si 2 Si Resul	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: JRL Host: Rumpole Number of drives 3, Drives: 90 8A 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-28 <03> 80 Allowed 0000 Off 1 WriteSectors 1 SWB-28 <0B> 80 Allowed 0000 Off 1 WriteLong 2 SWB-28 <43> 80 Allowed 0000 Off 1 ExtWrite Results for SWB-28 category w on drive 80 No commands blocked (0 of 3) 0 SWB-28 <03> 81 Blocked 0000 Off 0 WriteSectors 1 SWB-28 <0B> 81 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 81 All commands blocked (3 of 3) 0 SWB-28 <03> 82 Blocked 0000 Off 0 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 2 SWB-28 <43> 82 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked		
Results: Asse	rtion Expected Results	Actual Results	
AM-0	7 Tool active message	Tool active message	
AM-0		3 drives identified	
AM-0	9 Drive 80 is unprotected	Drive 80 is unprotected	
AM-0	9 Drive 81 is protected	Drive 81 is protected	
AM-0	9 Drive 82 is protected	Drive 82 is protected	
AM-1	0 6 Commands return succes	s 6 Commands return success	
AO-0	1 All cmds to drive 81 blo	ocked All cmds to drive 81 blocked	
AO-0	1 All cmds to drive 82 blo	ocked All cmds to drive 82 blocked	
AO-0	7 No cmds to drive 80 bloc	ked No cmds to drive 80 blocked	
Analysis: SWB-2	8 Expected results achieved		

Case SWB-29 HDL	Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001		
Case summary:	SWB-29 Install three drives, configure return code to failure, protect		
	with pattern PUP, execute write commands.		
Assertions	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			
		Now (10/02/03 at 13:04:46) Going TSR ***** Install HDL Log *****		
		HDL Int 13 Hard Disk Write Lock VO.7 010610 (c) RCMP 1993-2001		
		Royal Canadian Mounted Police		
	Royal Canadian Mounted Police UNAUTHORIZED USE / DISTRIBUTION PROHIBITED			
	ONAO	INORIZED OSE / DISTRIBUTION I	NONIBITED	
	Lice:	nsee: U.S. DoC - NIST - Compute	er Forensic Tool Test	
	3 H	ard-Disks reported by Int_13h		
		-Disk 0 Locked!		
		-Disk 1 Not Locked!		
		-Disk 2 Locked!		
		e Block successfully installed	•	
		Harness Log ****	00 07 00	
	Case: SWB-2	I-HDL.EXE SWB-29 Rumpole JRL w	90 8A 2B	
	Command set			
		ct 02 13:04:49 2003		
	Date. Ind of	30 02 10.01.13 2000		
		#) test-hdl.cpp Version 1.1 Cre		
	@(#)	wb-defs.h Version 1.2 Created	08/31/03 at 08:18:19	
	Comp	iled on Aug 31 2003 at 08:10:5	4	
	Operator: J			
	Host: Rumpole			
	Number of drives 3, Drives: 90 8A 2B			
	Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-29 <03> 80 Blocked 0300 On 0 WriteSectors			
		1 SWB-29 <0B> 80 Blocked 0300 On 0 WriteLong		
	2 SWB-29	<43> 80 Blocked 0300 On 0	ExtWrite	
		SWB-29 category w on drive 80		
	0 SWB-29	<03> 81 Allowed 0000 Off 1	WriteSectors	
	1 SWB-29 <0B> 81 Allowed 0000 Off 1 WriteLong			
	2 SWB-29 <43> 81 Allowed 0000 Off 1 ExtWrite			
	Results for SWB-29 category w on drive 81 No commands blocked (0 of 3)			
	0 SWB-29 <03> 82 Blocked 0300 On			
	1 SWB-29 <0B> 82 Blocked 0300 On			
	Results for SWB-29 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked			
	Summary. 9 Sent, 6 Blocked, 5 Not Blocked			
Dogul+a.	3	Townshed Desults	Patrial Parrilla	
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results 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		
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked	
Analysis:	SWB-29 Expe	cted results achieved		
Analysis:				

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.

Case SWB-30 HDL	Int 13 Ha	ard Disk Write Lock V0.7 010610) (c)RCMP 1993-2001	
	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	13:07:25 2003		
Test PC:	Rumpole			
Test Software:	SWBT 1.0			
Hard Drives		abel 90 is a WDC WD300BB-00CAA		
Used:	Drive 82, 1		-SCA Drive with 17783249 sectors	
Commands		C to (DOS 7.1) Windows 98 [Ver:	sion 4.10.2222]	
executed:	tally13			
	hdl7 S01	D 20 Dummala TDI 00 07 2D		
	Shutdown Te	B-30 Rumpole JRL w 90 8A 2B		
Log File		or Execution ****		
Highlights:		S interrupt 13h (disk service)		
		mpiled on 07/29/03 at 07:33:17		
	_	n 1.1 Created 07/29/03 at 07:2	8:05	
	Now (10/02/	03 at 13:07:22) Going T	SR	
	***** Insta	ll HDL Log ****		
		13 Hard Disk Write Lock V0.7 0		
		Royal Canadian Mounted Po		
	UNAU	THORIZED USE / DISTRIBUTION :	PROHIBITED	
	T	and the Dec Mich	P Mari Mark	
		nsee: U.S. DoC - NIST - Compute	er Forensic Tool Test	
		ard-Disks reported by Int_13h -Disk 0 Locked!		
		-Disk 1 Locked!		
	Hard-Disk 1 Locked!			
	Writ	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: 0(Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51		
		wb-defs.h Version 1.2 Created		
	Compiled on Aug 31 2003 at 08:10:54			
	Operator: JRL			
	Host: Rumpole			
	Number of d	rives 3, Drives: 90 8A 2B		
		Cmd Drv Action Stat Cry Count		
		<03> 80 Blocked 0000 Off 0		
			WriteLong	
	2 SWB-30 <43> 80 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 80 All commands blocked (3 of the command			
			WriteSectors	
			WriteLong	
	2 SWB-30 <43> 81 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 81 All commands blocked (3 of 0 SWB-30 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-30 <0B> 82 Allowed 0000 Off 1 WriteLong			
			All commands blocked (3 of 3)	
			ExtWrite	
		SWB-30 category w on drive 82 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 protected	Drive 81 is protected	
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected	
	AM-10	6 Commands return success	6 Commands return success	
	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked	
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked	
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked	
Analysis:	SWB-30 Expe	cted results achieved		

ראפה מוצה אום באר	Int 13 Hard Disk Write Lock VO 7 010610 (a) PCMD 1992-2001
	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
Assertions	with pattern PUU, execute read commands. SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
iesteu.	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
	hdl7 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)
mightigheo.	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
	Date: 180 Oct 02 13:15:31 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)
	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
	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
	Results for SWB-31 category r on drive 80 No commands blocked (0 of 3)
	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
	Results for SWB-31 category r on drive 80 No commands blocked (0 of 3) 0 SWB-31 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-31 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-31 category r on drive 81 No commands blocked (0 of 3) 0 SWB-31 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-31 <0A> 82 Allowed 0000 Off 1 ReadLong
	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)

	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 Expe	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
Commands	Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]
executed:	tally13
executeu.	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
	***** Install HDL Log *****
	HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
	Royal Canadian Mounted Police
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
	3 Hard-Disks reported by Int 13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Not Locked!
	Write Block successfully installed.
	**** Test Harness Log ****
	CMD: A:\TEST-HDL.EXE SWB-32 McMillian SN r F6 64 E4
	Case: SWB-32
	Command set: Read
	Date: Thu Oct 02 13:32:46 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
	@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
	Compiled on Aug 31 2003 at 08:10:54
August 2004	63 of 80 Test Results for HDI V0.7

Case SWB-32 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
Case SWB-32 HDI	Operator: SI Host: McMil Number of d. Case (0 SWB-32 - 1 SWB-32 - 2 SWB-32 - Results for (0 SWB-32 - 1 SWB-32 - 2 SWB-32 - 1 SWB-32 - 2 SWB-32 - Results for (0 SWB-32 - 1 SWB-32 - 2 SWB-32 - Results for (0 SWB-32 - 1 SWB-32 - 2 SWB-32 - Results for (0 SWB-32 - 1 SWB-32 - 2 SWB-32 - Results for (0 SWB-32 - 2 SWB-32 - 3 SWB-	N lian rives 3, Drives: F6 64 E4 Cmd Drv Action Stat Cry Count <02> 80 Allowed 0000 Off <02> 80 Allowed 0000 Off <03> 80 Allowed 0000 Off <04> 80 Allowed 0000 Off <04> 80 Allowed 0000 Off <04> 81 Allowed 0000 Off <05< 82 Allowed 0000 Off	t Cmd Name 1 ReadSectors 1 ReadLong 1 ExtRead 0 No commands blocked (0 of 3) 1 ReadSectors 1 ReadLong 1 ExtRead 1 No commands blocked (0 of 3) 1 ReadSectors 1 ReadLong 1 ExtRead 2 No commands blocked (0 of 3) 3 ReadLong 4 ExtRead 5 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 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		
	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		
Tester Name:	the selected subset.		
	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		
Commands	Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors		
executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13		
executed:	hdl7 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 VO.7 010610 (c)RCMP 1993-2001		
	Royal Canadian Mounted Police		
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED		
1 2004	C4 C00 TI (D 1) C TIDE YOR		

Case SWB-33 HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001			
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 0 Not Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-33 McMillian SN r F6 64 E4 Case: SWB-33 Command set: Read Date: Thu Oct 02 13:30:06 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-33 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 80 Allowed 0000 Off 1 ExtRead Results for SWB-33 category r on drive 80 No commands blocked (0 of 3) 0 SWB-33 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadSectors		
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, protec		
	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		
	<pre>indicating the protection status of each drive attached to a covered interface.</pre>		
	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-A0-07. 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		
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	Case SWB-34 HDI	Int_13 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
hd17 s12 test-hd1 SWB-34 McMillian SN r F6 64 E4 Shutdown Test FC	Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
Lest-hold SWB-34 McMillian SN r F6 64 E4	executed:	tally13		
Shutdown Test PC		hd17 S12		
Highlights:		test-hdl SW	B-34 McMillian SN r F6 64 E4	
### Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:32:05 Now (10/02/03 at 13:27:07) 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 Licenses: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int 13h Hard-Disk 1 Locked! Hard-Disk 2 Locked! Hard-Disk 2 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ****** Test Harness Log ***** CMD: **I/TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 8(#) 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: McKillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02-80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02-80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <03-80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <03-81 Allowed 0000 Off 1 ReadLong 3 SWB-34 <03-81 Allowed 0000 Off 1 ReadLong 2 SWB-34 <03-82 Allowed 0000 Off 1 ReadLong 3 SWB-34 <03-82 Allowed 0000 Off 1 ReadLong 4 Results for SWB-34 Category ron drive 80 No commands blocked (0 of 3) 0 SWB-34 <03-82 Allowed 0000 O		Shutdown Te	st PC	
tally13 compiled on 07/29/03 at 07:33:17 8(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (10/02/03 at 13:27:07) Going TSR ***** Install HDL Log ***** HDL Int 13 Hard Disk Write Lock VO.7 010610 (c)RCMP 1993-2001	Log File	**** Monit	or Execution *****	
8 (#) Version 1.1 Created 07/29/03 at 07:28:05	Highlights:	Monitor BIO	S interrupt 13h (disk service))
Now (10/02/03 at 13:27:07) Going TSR ****** Install MDL 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 Locked! Hard-Disk 2 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ****** Test Harness Log ****** CMD: A:YTEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(4) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed DoC Modes Decked No commands blocked (0 of 3) Ownmary: 9 sent, 0 blocked, 9 not blocked AM-09 Drive 80 is upprotected Drive 81 is protected AM-09 Drive 80 is uprotected Drive 82 blocked AM-09 Dr		tally13 co	mpiled on 07/29/03 at 07:33:17	7
#**** 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 1 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ****** Test Harness Log ****** CMD: A.YNEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 8(*) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 8(*) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <022 80 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 80 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 80 Allowed 0000 off 1 Readcong 2 SWB-34 <22 80 Allowed 0000 off 1 Readcong 2 SWB-34 <22 80 Allowed 0000 off 1 Readcong 2 SWB-34 <22 80 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 81 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <029 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <039 82 82 Allowed 0000 off 1 ReadSectors 1 SWB-34 <039 82 82 82 82 82 82 82 82 82 82 82 82 82		@(#) Versio	n 1.1 Created 07/29/03 at 07:2	28:05
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 Locked! Hard-Disk 2 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ****** Test Harness Log ****** CMD: A:\TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <022 80 Allowed 0000 off 1 ReadSectors 1 SWB-34 <022 80 Allowed 0000 off 1 ReadGong 2 SWB-34 <422 80 Allowed 0000 off 1 ReadGong 2 SWB-34 <422 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <022 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <022 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <022 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 81 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 2 SWB-34 <025 82 Allowed 0000 off 1 ReadGong 3 SUmmary: 9 sent, 0 blocked, 9 not blocked Results: AM-07		· ·		rsr -
UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3				
Licensee: U.S. DCC - NIST - Computer Forensic Tool Test 3 Hard-Disks reported by Int_13h Hard-Disk 1 Locked! Hard-Disk 1 Locked! Hard-Disk 2 Locked! Write Block successfully installed. ******* Test Harness Log ******* CMD: A:\TEST-HDL EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 0(#) wb-defs.h Version 1.1 Created 08/23/03 at 10:13:51		_		* *
Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3			-	
3 Hard-Disk Not Locked! Hard-Disk Not Locked! Hard-Disk Locked! Hard-Disk Locked! Hard-Disk Locked! Hard-Disk Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:YEBST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 0(#) 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 State Cry Count Cmd Name O SWB-34 <02> 80 Allowed 0000 Off		UNAU	THORIZED USE / DISTRIBUTION	PROHIBITED
3 Hard-Disk Not Locked! Hard-Disk Not Locked! Hard-Disk Locked! Hard-Disk Locked! Hard-Disk Locked! Hard-Disk Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:YEBST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 0(#) 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 State Cry Count Cmd Name O SWB-34 <02> 80 Allowed 0000 Off		Ŧ !	THE PAGE NAME OF THE PAGE OF T	and The control of th
### Hard-Disk 1 Locked! ### Hard-Disk 2 Locked! ### Write Block successfully installed. ****** Test Harness Log ****** *****************************				ter Forensic Tool Test
Hard-Disk 1				
Hard-Disk 2 Locked! Write Block successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 Operator: SN Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 81 Allowed 0000 Off 1 ReadSectors 2 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 2 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 2 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 83 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <03> 83 Off 1 ReadSectors 1 SWB-34 <03> 83 Off 1 ReadSectors 1 SWB-34 <03> 83 Off 1 ReadSectors 1 SWB-34 <03 Off 1 ReadSectors				
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#**** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4 Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: @(#) wb-defs.h Version 1.2 Created 08/23/03 at 10:13:51				4
CMD: A:\TEST-HDL.EXE SWB-34 McMillian SN r F6 64 E4				٨.
Case: SWB-34 Command set: Read Date: Thu Oct 02 13:27:15 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51			2	r F6 64 E4
Command set: Read Date: Thu Oct 02 13:27:15 2003		1		1 10 01 11
Date: Thu Oct 02 13:27:15 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51				
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Host: McMillian Number of drives 3, Drives: F6 64 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 81 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 8 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 9 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 1 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 3 Results for SWB-34 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked Results is portected Drive 80 is unprotected Drive 80 is unprotected Drive 80 is unprotected Drive 80 is unprotected Drive 81 is protected Drive 82 blocked No cmds to drive 82 blocked No cmds to drive 82 blocked No cmds to drive 80 blocked N		Comp	iled on Aug 31 2003 at 08:10:	54
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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		AM-08 AM-09 AM-09	3 drives identified Drive 80 is unprotected Drive 81 is protected	Drive 80 is unprotected Drive 81 is protected
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		AM-08 AM-09 AM-09 AM-09	3 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is protected	Drive 80 is unprotected Drive 81 is protected Drive 82 is protected
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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.		

SMN-MA-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. SMR-MA-11, if the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate with the commands from the read category shall not be blocked for drives in the selected subset. SMR-AD-0-07, 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. SMR-AD-0-07, if a subset of all covered drives is specified for protection, then on commands from any category shall be blocked for drives not in the selected subset. Tests bate: Note of the covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. Test bate: Note of the covered drives is specified for drives not in the selected subset. Test bate: Note of the covered drives is specified for drives not in the selected subset. Test bate: Note of the covered drives is specified for drives not in the selected subset. Test bate: Note of the covered drives is specified for drives not in the selected subset. Note of the covered drives drives drives in the selected subset. Note of the covered drives dri	Case SWB-35 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	.0 (c)RCMP 1993-2001
interfaces. SNB-AN-1. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unauceasful commands stem than the return code shall indicate unauceasful commands from the read category shall not be blocked for drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. Test Poil on commands from any category shall be blocked for drives not in the selected subset. Test Poil Modified States from any category shall be blocked for drives not in the selected subset. Test Poil Modified States from any category shall be blocked for drives not in the selected subset. Test Poil Modified States from the read category shall be blocked for drives not in the selected subset. Test Poil Modified States from the read category shall be blocked for drives not in the selected subset. Test Poil Modified States from the read of selected states from the selected subset. Test Software: Next Poil Modified States from the read of selected states from the sele		SWB-AM-09.	If the tool is executed then t	the tool shall issue a message
and the tool blocks a command then the return code shall indicate unsuccessful commands remotion. WB-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. WB-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. Test Date: WB-MAD-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 Test Date: WB-MAD-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 Test PC: WB-MAD-07. WB-MAD-07. WB-MAD				each drive attached to a covered
SWB-A0-04, 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-A0-07, 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. Total Pot: Total Po		and the	tool blocks a command then t	
SNP-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. Test Date:		SWB-A0-04.	If a subset of all covered dri	
### Tester Name: SN				
Test Date:		then no	commands from any category s	
Test Software: SMBT 1.0	Tester Name:			
Test Software: SMBT 1.0			13:24:29 2003	
Name				
Drive 81, label 64 is a WDC WD64AA with 12594960 sectors			abel F6 is an IBM-DTLA-307020	with 40188960 sectors
Boot Test PC to (DOS 7.1) Windows 98 (Version 4.10.2222)				
### Early 13 half				
Shutdown Test PC		tally13	C to (DOS 7.1) Windows 98 [Ve	rsion 4.10.2222]
Log File				
### 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-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:\TRST-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: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 8(#) 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> 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 ReadSectors 1 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <02	Iog Filo			
tally13 compiled on 07/29/03 at 07:33:17				
Now (10/02/03 at 13:24:21) Going TSR ****** Install HDL Log ****** HDL Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMF 1993-2001 Royal Canadian Mounted Police UNAUTHORIZED USE / DISTRIBUTION PROHIBITED Licensee: U.S. DoC - NIST - Computer Forensic Tool Test 3 Hard-Disks or Locked! Hard-Disk 1 Not Locked! Hard-Disk 2 Locked! Write Block successfully installed. ****** Test Harness Log ****** CMD: A:VTEST-BDL.EXE SWB-35 McMillian SN r F6 64 E4 Case: SWB-35 Command set: Read Date: Thu Oct 02 13:24:29 2003 Version: 0(#) test-hal.cpp Version 1.1 Created 08/23/03 at 10:13:51		tally13 com	mpiled on 07/29/03 at 07:33:17	7
#### 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 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: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51				
### 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				ISR
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 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: 8(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51				010610 (c)RCMP 1993-2001
Licensee: U.S. DOC - NIST - Computer Forensic Tool Test 3		-		
3		UNAU'	THORIZED USE / DISTRIBUTION	PROHIBITED
3		- 1		
### Hard-Disk 0 Locked! ### Hard-Disk 1 Not Locked! ### Hard-Disk 2 Locked! ### Write Block successfully installed. ******* Test Harness Log ****** *****************************			-	ter Forensic Tool Test
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 <04> 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 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <03> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 81 Allowed 0000 Off 1 ReadLong 2 SWB-35 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <03> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 82 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 2 SWB-35 <04> 83 Allowed 0000 Off 1 ReadLong 3 Allowed 0000 Off 1 Rea				
### 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 <42> 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) 0 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 81 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <04> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-35 <05 SWB-35 Category r on drive 81 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked Results for SWB-35 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked Drive 80 is protected Drive 80 is protected				
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AM-08 3 drives identified 3 drives identified AM-09 Drive 80 is protected Drive 80 is protected	TODUTED.			
AM-09 Drive 80 is protected Drive 80 is protected				
AM-09 Drive 81 is unprotected Drive 81 is unprotected				

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

Case SWB-36 HDL	Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case summary:	SWB-36 Install three drives, configure return code to success, protect
	with pattern PPU, execute read commands.
Assertions	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 13:18:17 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
	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 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)

Case SWB-36 HDI	Int_13 Ha	ard Disk Write Lock V0.7 01061	0 (c)RCMP 1993-2001
	0 SWB-36 1 SWB-36 2 SWB-36 Results for 0 SWB-36 1 SWB-36 2 SWB-36 Results for	<02> 82 Allowed 0000 Off <0A> 82 Allowed 0000 Off <42> 82 Allowed 0000 Off	ReadSectors ReadLong ExtRead No commands blocked (0 of 3) ReadSectors ReadLong ExtRead No commands blocked (0 of 3)
	Summary: 9	sent, o blocked, 5 not blocked	2
Results:	Assertion	Expected Results	Actual Results
Results:		· · · · · · · · · · · · · · · · · · ·	
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08	Expected Results Tool active message 3 drives identified	Actual Results Tool active message 3 drives identified
Results:	Assertion AM-07 AM-08 AM-09	Expected Results Tool active message 3 drives identified Drive 80 is protected	Actual Results Tool active message 3 drives identified Drive 80 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected	Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected	Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10	Expected Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success	Actual Results Tool active message 3 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected 0 Commands return success
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-10 AO-04	Expected Results 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	Actual Results 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 No cmds to drive 81 blocked

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		Harness Log *****	
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	Case: SWB-3		
	Command set		
	Date: Fri O	ct 03 08:45:33 2003	
	@(#) Comp Operator: J		08/31/03 at 08:18:19
	Host: Wimse		
		rives 4, Drives: 6F 90 1F 2B	
		Cmd Drv Action Stat Cry Count	
		<03> 80 Allowed 0000 Off 1	
	1 SWB-37	<pre><0B> 80 Allowed 0000 Off</pre>	WriteLong
		SWB-37 category w on drive 80	
		<03> 81 Blocked 0300 On 0	· · · · · · · · · · · · · · · · · · ·
	2 SWB-37	<ob> 81 Blocked 0300 On 0 <43> 81 Blocked 0300 On 0</ob>	ExtWrite
		SWB-37 category w on drive 81	
		<pre><03> 82 Allowed 0000 Off 1</pre>	
ļ		<pre><0B> 82 Allowed 0000 Off 1</pre>	
ļ		<43> 82 Allowed 0000 Off 1	
ļ		SWB-37 category w on drive 82	
		<03> 83 Blocked 0300 On 0	
		<ob> 83 Blocked 0300 On 0</ob>	
		<43> 83 Blocked 0300 On 0	
	Results for	SWB-37 category w on drive 83	All commands blocked (3 of 3)
		sent, 6 blocked, 6 not blocked	
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
Í	AM-07 AM-08	Tool active message 4 drives identified	Tool active message 4 drives identified
		-	-
	AM-08	4 drives identified Drive 80 is unprotected	4 drives identified Drive 80 is unprotected
	AM-08 AM-09	4 drives identified	4 drives identified
	AM-08 AM-09 AM-09	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected	4 drives identified Drive 80 is unprotected Drive 81 is protected
	AM-08 AM-09 AM-09 AM-09	4 drives identified Drive 80 is unprotected Drive 81 is protected	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected
	AM-08 AM-09 AM-09 AM-09 AM-09	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected
	AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked
	AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-08 AO-08	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked All cmds to drive 83 blocked	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked All cmds to drive 83 blocked
	AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-08	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked	4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail All cmds to drive 81 blocked

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 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

Case SWB-38 HDI	Int 13 Hard Di	sk Write Lock V0.7 010610	(c) RCMP 1993-2001
	_		18 SCA Drive with 35916548
	sectors		- -
	Drive 84, label 2	B is a Quantum QM39100TD-	-SCA Drive with 17783249 sectors
Commands	Boot Host (HDL in	AUTOEXEC.BAT)	
executed:	! 1 00 !	4 40 00003	
	Windows 98 [Versi	on 4.10.2222]	
	tally13 hd17 S024		
		IcCloud JRL w 6F 8A 90 1F	2B
	Shutdown Host		
Log File	**** Monitor Exe	cution ****	
Highlights:		rrupt 13h (disk service)	
		on 07/29/03 at 07:33:17	
		Created 07/29/03 at 07:28	
	***** Install HDL	09:54:34) Going Tog ****	SK .
		d Disk Write Lock V0.7 0	10610 (c) RCMP 1993-2001
	_	l Canadian Mounted Pol	
	_	ED USE / DISTRIBUTION 1	
		U.S. DoC - NIST - Compute	er Forensic Tool Test
		sks reported by Int_13h	
		0 Locked! 1 Not Locked!	
		2 Locked!	
		3 Not Locked!	
	Hard-Disk	4 Locked!	
	Write Bloc	k successfully installed	
	***** Test Harnes	=	
	·	EXE SWB-38 McCloud JRL w	6F 8A 90 1F 2B
	Case: SWB-38 Command set: Writ		
	Date: Fri Oct 03		
	Dacc. 111 000 03	03.30.33 2003	
	Version: @(#) tes	t-hdl.cpp Version 1.1 Cre	eated 08/23/03 at 10:13:51
	@(#) wb-de	efs.h Version 1.2 Created	08/31/03 at 08:18:19
	_	on Aug 31 2003 at 08:10:5	4
	Operator: JRL		
	Host: McCloud	5, Drives: 6F 8A 90 1F 2F	2
		v Action Stat Cry Count	
		0 Blocked 0000 Off 0	
		0 Blocked 0000 Off 0	
		0 Blocked 0000 Off 0	
			All commands blocked (3 of 3)
		1 Allowed 0000 Off 1	
		1 Allowed 0000 Off 1 1 Allowed 0000 Off 1	WriteLong ExtWrite
			No commands blocked (0 of 3)
			WriteSectors
			WriteLong
			ExtWrite
			All commands blocked (3 of 3)
		3 Allowed 0000 Off 1	
			WriteLong ExtWrite
			No commands blocked (0 of 3)
			WriteSectors
			WriteLong
	2 SWB-38 <43> 8	4 Blocked 0000 Off 0	ExtWrite
			All commands blocked (3 of 3)
	Summary: 15 sent,	9 blocked, 6 not blocked	d
Results:	Assertion Exped	cted Results	Actual Results
1.000100.		active message	Tool active message
		ives identified	5 drives identified
		e 80 is protected	Drive 80 is protected
		e 81 is unprotected	Drive 81 is unprotected
		<u>- </u>	
	AM-09 Drive	e 82 is protected	Drive 82 is protected
		e 83 is unprotected	Drive 83 is unprotected
	AM-09 Drive		
	AM-09 Drive	e 83 is unprotected	Drive 83 is unprotected

Case SWB-38 HDL	Int_13 Ha	ard Disk Write Lock V0.7 010610	(c)RCMP 1993-2001
	Assertion	Expected Results	Actual Results
		All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-08	All cmds to drive 82 blocked	All cmds to drive 82 blocked
		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 Expe	cted results achieved	

Case SWB-39 HDL	Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
Case summary:	SWB-39 Install all drives, configure return code to failure, protect with
	pattern high, execute write commands, uninstall, execute all commands.
Assertions	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
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 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
executed:	Windows 98 [Version 4.10.2222]
	tally13
	hdl7 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
Log File	Shutdown Test PC ***** Monitor Execution *****
Highlights:	Monitor BIOS interrupt 13h (disk service)
inightighto.	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
	Ticonocci V. C. Dec. MICH. Computer Personic Heal Heat
	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 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 08/31/03 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 SWB-39 HDL -- Int 13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                       Case Cmd Drv Action Stat Cry Count Cmd Name
                   Case Cmd Drv Action Stat Cry count S..... 1
0 SWB-39 <03> 80 Allowed 0000 Off 1 WriteSectors
1 CMB 20 <0B> 80 Allowed 0000 Off 1 WriteLong
                   2 SWB-39 <43> 80 Allowed 0000 Off
                                                           1 ExtWrite
                 Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)
                   0 SWB-39 <03> 81 Allowed 0000 Off 1 WriteSectors
                   1 SWB-39 <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
1 SWB-39 <0B> 83 Blocked 0300 On 0 WriteLong
2 SWB-39 <43> 83 Blocked 0300 On 0 ExtWrite
                 Results for SWB-39 category w on drive 83 All commands blocked (3 of 3)
                   0 SWB-39 <03> 84 Blocked 0300 On 0 WriteSectors
                                                          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
                   81
                             3
                   82
                   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
                   2 SWB-39 <0D> 80 Allowed 0000 Off 1 AltReset
                                                        1 Recalibrate
1 ExtendedSeek
                   3 SWB-39 <11> 80 Allowed 0000 Off
                    4 SWB-39 <47> 80 Allowed 0000 Off
                 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 SWB-39 <0C> 81 Allowed 0000 Off
                                                         1 AltReset
1 Recalibrate
                   2 SWB-39 <0D> 81 Allowed 0000 Off
                   3 SWB-39 <11> 81 Allowed 0000 Off
                   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 $\rm 1$ Reset
                   1 SWB-39 <0C> 82 Allowed 0000 Off
                                                           1 SeekDrive
                                                          1 AltReset
1 Recalibrate
1 ExtendedSeek
                   2 SWB-39 <OD> 82 Allowed 0000 Off
                   3 SWB-39 <11> 82 Allowed 0000 Off
                   4 SWB-39 <47> 82 Allowed 0000 Off
                 Results for SWB-39 category c on drive 82 No commands blocked (0 of 5)
```

Case SWB-39 HDL	L Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001	
	Case Cmd Drv Action Stat Cry Count Cmd Name	
	0 SWB-39 <00> 83 Allowed 0000 Off 1 Reset	
	1 SWB-39 <oc> 83 Allowed 0000 Off 1 SeekDrive</oc>	
	2 SWB-39 <0D> 83 Allowed 0000 Off 1 AltReset 3 SWB-39 <11> 83 Allowed 0000 Off 1 Recalibrate	
	4 SWB-39 <47> 83 Allowed 0000 Off 1 ExtendedSeek	
	Results for SWB-39 category c on drive 83 No commands blocked (0	of 5)
	0 SWB-39 <00> 84 Allowed 0000 Off 1 Reset	,
	1 SWB-39 <0C> 84 Allowed 0000 Off 1 SeekDrive	
	2 SWB-39 <od> 84 Allowed 0000 Off 1 AltReset</od>	
	3 SWB-39 <11> 84 Allowed 0000 Off 1 Recalibrate	
	4 SWB-39 <4/> 84 Allowed 0000 Off 1 ExtendedSeek	- 5 - 5 \
	Results for SWB-39 category c on drive 84 No commands blocked (0 Summary: 25 sent, 0 blocked, 25 not blocked	OI 5)
	Case Cmd Drv Action Stat Cry Count Cmd Name	
	0 SWB-39 <01> 80 Allowed 0000 Off 1 GetLastStatus	
	1 SWB-39 <04> 80 Allowed 0000 Off 1 VerifySectors	
	2 SWB-39 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-39 <10> 80 Allowed 0000 Off 1 TestDriveReady	
	3 SWB-39 <10> 80 Allowed 0000 Off 1 TestDriveReady	
	4 SWB-39 <15> 80 Allowed 0000 Off 1 ReadDriveType	
	5 SWB-39 <41> 80 Allowed 0000 Off 1 CheckForExtensions	
	6 SWB-39 <44> 80 Allowed 0000 Off 1 VerifySectors	
	7 SWB-39 <48> 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-39 category i on drive 80 No commands blocked (0	of Ql
	0 SWB-39 <01> 81 Allowed 0000 Off 1 GetLastStatus	O1 0)
	1 SWB-39 <04> 81 Allowed 0000 Off 1 VerifySectors	
	2 SWB-39 <08> 81 Allowed 0000 Off 1 ReadDriveParms	
	3 SWB-39 <10> 81 Allowed 0000 Off 1 TestDriveReady	
	4 SWB-39 <15> 81 Allowed 0000 Off 1 ReadDriveType	
	5 SWB-39 <41> 81 Allowed 0000 Off 1 CheckForExtensions	
	6 SWB-39 <44> 81 Allowed 0000 Off 1 VerifySectors	
	7 SWB-39 <48> 81 Allowed 0000 Off 1 GetDriveParms	
	Results for SWB-39 category i on drive 81 No commands blocked (0	of 8)
	0 SWB-39 <01> 82 Allowed 0000 Off 1 GetLastStatus 1 SWB-39 <04> 82 Allowed 0000 Off 1 VerifySectors	
	1 SWB-39 <04> 82 Allowed 0000 Off 1 VerifySectors 2 SWB-39 <08> 82 Allowed 0000 Off 1 ReadDriveParms	
	3 SWB-39 <10> 82 Allowed 0000 Off 1 TestDriveReady	
	4 SWB-39 <15> 82 Allowed 0000 Off 1 ReadDriveType	
	5 SWB-39 <41> 82 Allowed 0000 Off 1 CheckForExtensions	
	6 SWB-39 <44> 82 Allowed 0000 Off 1 VerifySectors	
	7 SWB-39 <48> 82 Allowed 0000 Off 1 GetDriveParms	
	Results for SWB-39 category i on drive 82 No commands blocked (0	of 8)
	0 SWB-39 <01> 83 Allowed 0000 Off 1 GetLastStatus 1 SWB-39 <04> 83 Allowed 0000 Off 1 VerifySectors	
	1 SWB-39 <04> 83 Allowed 0000 Off 1 VerifySectors 2 SWB-39 <08> 83 Allowed 0000 Off 1 ReadDriveParms	
	3 SWB-39 <10> 83 Allowed 0000 Off 1 TestDriveReady	
	4 SWB-39 <15> 83 Allowed 0000 Off 1 ReadDriveType	
	5 SWB-39 <41> 83 Allowed 0000 Off 1 CheckForExtensions	
	6 SWB-39 <44> 83 Allowed 0000 Off 1 VerifySectors	
	7 SWB-39 <48> 83 Allowed 0000 Off 1 GetDriveParms	
	Results for SWB-39 category i on drive 83 No commands blocked (0	of 8)
	0 SWB-39 <01> 84 Allowed 0000 Off 1 GetLastStatus 1 SWB-39 <04> 84 Allowed 0000 Off 1 VerifySectors	
	2 SWB-39 <08> 84 Allowed 0000 Off 1 ReadDriveParms	
	3 SWB-39 <10> 84 Allowed 0000 Off 1 TestDriveReady	
	4 SWB-39 <15> 84 Allowed 0000 Off 1 ReadDriveType	
	5 SWB-39 <41> 84 Allowed 0000 Off 1 CheckForExtensions	
	6 SWB-39 <44> 84 Allowed 0000 Off 1 VerifySectors	
	7 SWB-39 <48> 84 Allowed 0000 Off 1 GetDriveParms	
	Results for SWB-39 category i on drive 84 No commands blocked (0	of 8)
	Summary: 40 sent, 0 blocked, 40 not blocked	
	Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-39 <02> 80 Allowed 0000 Off 1 ReadSectors	
	1 SWB-39 <0A> 80 Allowed 0000 Off 1 ReadLong	
	2 SWB-39 <42> 80 Allowed 0000 Off 1 ExtRead	
	Results for SWB-39 category r on drive 80 No commands blocked (0	of 3)
	0 SWB-39 <02> 81 Allowed 0000 Off 1 ReadSectors	,
	1 SWB-39 <0A> 81 Allowed 0000 Off	
	2 SWB-39 <42> 81 Allowed 0000 Off 1 ExtRead	
	Results for SWB-39 category r on drive 81 No commands blocked (0	of 3)
	0 SWB-39 <02> 82 Allowed 0000 Off 1 ReadSectors	
	1 SWB-39 <0A> 82 Allowed 0000 Off 1 ReadLong	
	2 SWB-39 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-39 category r on drive 82 No commands blocked (0	of 31
	Thesures for swb-sa category i on drive 82 NO commands blocked (U	OT 2)

```
Case SWB-39 HDL -- Int_13 Hard Disk Write Lock V0.7 010610 (c)RCMP 1993-2001
                         Case Cmd Drv Action Stat Cry Count Cmd Name
                     1 ReadLong
1 ExtRead
                     1 SWB-39 <0A> 83 Allowed 0000 Off
                     2 SWB-39 <42> 83 Allowed 0000 Off
                   Results for SWB-39 category r on drive 83 No commands blocked (0 of 3)
                     0 SWB-39 <02> 84 Allowed 0000 Off $\rm 1$ ReadSectors
                     1 SWB-39 < 0A> 84 Allowed 0000 Off
                                                                 1 ReadLong
                     2 SWB-39 <42> 84 Allowed 0000 Off
                                                                      ExtRead
                   Results for SWB-39 category r on drive 84 No commands blocked (0 of 3)
                   Summary: 15 sent, 0 blocked, 15 not blocked
                         Case Cmd Drv Action Stat Cry Count Cmd Name
                     0 SWB-39 <03> 80 Allowed 0000 Off 2 WriteSectors
                     1 SWB-39 <0B> 80 Allowed 0000 Off
                                                                 2 WriteLong
2 ExtWrite
                     2 SWB-39 <43> 80 Allowed 0000 Off
                   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 <08> 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 WriteLong
1 ExtWrite
                     1 SWB-39 <0B> 82 Allowed 0000 Off
                     2 SWB-39 <43> 82 Allowed 0000 Off
                   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 <08> 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
                     1 SWB-39 <0B> 84 Allowed 0000 Off
                                                                 1 ExtWrite
                     2 SWB-39 <43> 84 Allowed 0000 Off
                   Results for SWB-39 category w on drive 84 No commands blocked (0 of 3)
                   Summary: 15 sent, 0 blocked, 15 not blocked
                         Case Cmd Drv Action Stat Cry Count Cmd Name
                     0 SWB-39 <05> 80 Allowed 0000 Off 1 FormatTrack 1 SWB-39 <06> 80 Allowed 0000 Off 1 FormatBadSectors 2 SWB-39 <07> 80 Allowed 0000 Off 1 FormatCyl
                     3 SWB-39 <09> 80 Allowed 0000 Off
                                                                 1 InitDriveParms
                     4 SWB-39 <0E> 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-39 <0F> 80 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-39 <12> 80 Allowed 0000 Off 1 DiagnosticEAM
                                                               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 \phantom{-}1\phantom{-} FormatTrack
                     1 SWB-39 <06> 81 Allowed 0000 Off 1 FormatBadSectors 2 SWB-39 <07> 81 Allowed 0000 Off 1 FormatCyl 3 SWB-39 <09> 81 Allowed 0000 Off 1 InitDriveParms
                     4 SWB-39 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-39 <0F> 81 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-39 <12> 81 Allowed 0000 Off 1 DiagnosticRAM
                     6 SWB-39 <12> 81 Allowed 0000 Off
                     7 SWB-39 <13> 81 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-39 <14> 81 Allowed 0000 Off 1 DiagnosticCTL
                   Results for SWB-39 category x on drive 81 No commands blocked (0 of 9)
                     0 SWB-39 <05> 82 Allowed 0000 Off $\rm 1\, FormatTrack
                     1 SWB-39 <06> 82 Allowed 0000 Off
                                                                 1 FormatBadSectors
                                                                 1 FormatCyl
1 InitDriveParms
                     2 SWB-39 <07> 82 Allowed 0000 Off
                     3 SWB-39 <09> 82 Allowed 0000 Off
                     4 SWB-39 <0E> 82 Allowed 0000 Off
                                                                 1 DiagnosticESDI
                                                                 1 DiagnosticESDI
1 DiagnosticRAM
                     5 SWB-39 <OF> 82 Allowed 0000 Off
                     6 SWB-39 <12> 82 Allowed 0000 Off
                                                                 1 DiagnosticDrive
                     7 SWB-39 <13> 82 Allowed 0000 Off
                     8 SWB-39 <14> 82 Allowed 0000 Off
                                                                  1 DiagnosticCTL
                   Results for SWB-39 category x on drive 82 No commands blocked (0 of 9)
                     0 SWB-39 <05> 83 Allowed 0000 Off 1 FormatTrack
                     1 SWB-39 <06> 83 Allowed 0000 Off
                                                                 1 FormatBadSectors
                                                                 1 FormatCyl
1 InitDriveParms
1 DiagnosticESDI
                     2 SWB-39 <07> 83 Allowed 0000 Off
                     3 SWB-39 <09> 83 Allowed 0000 Off
                     4 SWB-39 <0E> 83 Allowed 0000 Off
                                                               1 DiagnosticESDI
                     5 SWB-39 <OF> 83 Allowed 0000 Off
                     6 SWB-39 <12> 83 Allowed 0000 Off
                                                                  1 DiagnosticRAM
                                                               1 DiagnosticDriv
1 DiagnosticCTL
                      7 SWB-39 <13> 83 Allowed 0000 Off
                                                                      DiagnosticDrive
                     8 SWB-39 <14> 83 Allowed 0000 Off
                   Results for SWB-39 category x on drive 83 No commands blocked (0 of 9)
```

```
Case SWB-39 HDL -- Int 13 Hard Disk Write Lock V0.7 010610 (c) RCMP 1993-2001
                   Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-39 <05> 84 Allowed 0000 Off 1 FormatT
                                                       1 FormatTrack
1 FormatBadSectors
1 FormatCyl
                   1 SWB-39 <06> 84 Allowed 0000 Off
                   2 SWB-39 <07> 84 Allowed 0000 Off
                   3 SWB-39 <09> 84 Allowed 0000 Off
                                                         1 InitDriveParms
                                                         1 DiagnosticESDI
                   4 SWB-39 <OE> 84 Allowed 0000 Off
                                                          1 DiagnosticESDI
1 DiagnosticRAM
                   5 SWB-39 <0F> 84 Allowed 0000 Off
                   6 SWB-39 <12> 84 Allowed 0000 Off
                                                          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
                   Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-39 <16> 80 Allowed 0000 Off 1 Undefined
                          misc commands 17-FD results omitted
                          see log files for full results
                 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
                 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
1 Undefined
                 226 SWB-39 <FE> 82 Allowed 0000 Off
                 227 SWB-39 <FF> 82 Allowed 0000 Off
                 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
                 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 227 SWB-39 <FF> 84 Allowed 0000 Off 1 Undefined
                 Results for SWB-39 category m on drive 84 No commands blocked (0 of 228)
```

Case SWB-39 HDL	Int_13 Ha	ard Disk Write Lock V0.7 0	10610 (c)RCMP 1993-2001
	Summary: 11	40 sent, 0 blocked, 1140 m	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 Expe	cted results achieved	

	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
7 1 1	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
	<pre>indicating the protection status of each drive attached to a covered interface.</pre>
	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
osea.	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:	2000 2000 20
	Windows 98 [Version 4.10.2222]
	tally13
	hdl7 s01
	test-hdl SWB-40 Cadfael JRL w 6F 8A 1F 2B
	t-off SWB-40 Cadfael JRL
	hdl7 R
	test-hdl SWB-40 Cadfael JRL a 6F 8A 1F 2B
	Shutdown Test PC
Log File	**** 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 09:31:51) Going TSR
	***** Install HDL Log *****
	HDL Int_13 Hard Disk Write Lock V0.7 010610 (c) RCMP 1993-2001
	Royal Canadian Mounted Police
	UNAUTHORIZED USE / DISTRIBUTION PROHIBITED
	Licensee: U.S. DoC - NIST - Computer Forensic Tool Test
	4 Hard-Disks reported by Int 13h
	Hard-Disks leported by Int_ISH 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
	1

```
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
                                                   Status
                                                                    Count
                                                                            Cmd Name
                     Case
                                                            Carrv
                   0 SWB-40
                             0.3
                                  8.0
                                        Blocked
                                                   0000
                                                            Off
                                                                    Ω
                                                                            WriteSectors
                   1 SWB-40
                              0B
                                   80
                                        Blocked
                                                   0000
                                                            Off
                                                                            WriteLong
                   2 SWB-40
                                        Blocked
                                                   0000
                                                            Off
                              43
                                   8.0
                                                                    Λ
                                                                            ExtWrite
                   3 SWB-40
                              2.1
                                   80
                                        Blocked
                                                   0000
                                                            Off
                                                                    0
                                                                            WriteBlocks
                   4 SWB-40
                                                   0000
                              0.5
                                   8.0
                                        Blocked
                                                            Off
                                                                    0
                                                                            FormatTrack
                  5 SWB-40
                              06
                                   8.0
                                        Blocked
                                                   0000
                                                            Off
                                                                    0
                                                                            FormatBadSectors
                   6 SWB-40
                              07
                                   80
                                        Blocked
                                                   0000
                                                            Off
                                                                    0
                                                                            FormatCvl
                   7 SWB-40
                              OΕ
                                   80
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            DiagnosticESDI
                   8 SWB-40
                              ΟF
                                   80
                                        Blocked
                                                   0000
                                                            Off
                                                                            DiagnosticESDI
                  9 SWB-40
                              12
                                   80
                                                   0000
                                                            Off
                                        Blocked
                                                                    Ω
                                                                            DiagnosticRAM
                  10 SWB-40
                                   80
                                        Blocked
                                                   0000
                                                            Off
                              13
                                                                    0
                                                                            DiagnosticDrive
                 11 SWB-40
                                   80
                                        Blocked
                                                   0000
                                                            Off
                                                                            DiagnosticCTL
                              14
                                                                    0
                 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
                                                            Off
                              0B
                                   81
                                                   0000
                                                                    0
                                                                            WriteLong
                   2 SWB-40
                                                   0000
                              43
                                   81
                                        Blocked
                                                            Off
                                                                    0
                                                                            Ext.Write
                   3 SWB-40
                                   81
                                        Blocked
                                                   0000
                                                            Off
                                                                            WriteBlocks
                              2.1
                                                                    0
                   4 SWB-40
                              05
                                        Blocked
                                                   0000
                                                            Off
                                   81
                                                                            FormatTrack
                  5 SWB-40
                              06
                                   81
                                        Blocked
                                                   0000
                                                            Off
                                                                    0
                                                                            FormatBadSectors
                   6 SWB-40
                              07
                                   81
                                        Blocked
                                                   0000
                                                            Off
                                                                    0
                                                                            FormatCyl
                   7 SWB-40
                              0E
                                   81
                                        Allowed
                                                   0000
                                                            Off
                                                                            DiagnosticESDI
                  8 SWB-40
                                   81
                                                            Off
                             0 F
                                        Blocked
                                                   0000
                                                                    Ω
                                                                            DiagnosticESDI
                   9 SWB-40
                              12
                                   81
                                                   0000
                                                            Off
                                        Blocked
                                                                    0
                                                                            DiagnosticRAM
                  10 SWB-40
                                   81
                                        Blocked
                                                   0000
                                                            Off
                                                                            DiagnosticDrive
                              1.3
                                                                    Ω
                  11 SWB-40
                                                   0000
                              14
                                   81
                                        Blocked
                                                            Off
                                                                            DiagnosticCTL
                                                            Off
                 12 SWB-40
                              1 A
                                  81
                                        Blocked
                                                   0000
                                                                    0
                                                                            Format.DriveESDI
                Results for SWB-40 category w on drive 81 Not all commands blocked (12 of
                13)
                  0 SWB-40
                                                   0000
                              0.3
                                   82
                                        Allowed
                                                            Off
                                                                    1
                                                                            WriteSectors
                   1 SWB-40
                              0В
                                   82
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            WriteLong
                   2 SWB-40
                                   82
                                        Allowed
                                                   0000
                              43
                                                            Off
                                                                    1
                                                                           ExtWrite
                  3 SWB-40
                                   82
                                        Allowed
                                                   0000
                                                            Off
                              21
                                                                            WriteBlocks
                   4 SWB-40
                                   82
                                        Allowed
                                                   0000
                                                            Off
                              0.5
                                                                    1
                                                                            FormatTrack
                   5 SWB-40
                              06
                                   82
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            FormatBadSectors
                   6 SWB-40
                              0.7
                                   82
                                        Allowed
                                                   0000
                                                            Off
                                                                            FormatCyl
                   7 SWB-40
                                  82
                                                            Off
                              OΕ
                                        Allowed
                                                   0000
                                                                    1
                                                                           DiagnosticESDI
                  8 SWB-40
                              0F
                                   82
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            DiagnosticESDI
                   9 SWB-40
                              12
                                   82
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            DiagnosticRAM
                  10 SWB-40
                                        Allowed
                                                   0000
                                                            Off
                              13
                                   82
                                                                            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
                                                                            WriteLong
                  2 SWB-40
                                        Allowed
                              43
                                   83
                                                   0000
                                                            Off
                                                                    1
                                                                           ExtWrite
                  3 SWB-40
                                        Allowed
                                                   0000
                                                            Off
                              21
                                  83
                                                                            WriteBlocks
                   4 SWB-40
                                   83
                                                            Off
                              0.5
                                        Allowed
                                                   0000
                                                                    1
                                                                           FormatTrack
                   5 SWB-40
                                   83
                                        Allowed
                                                   0000
                                                            Off
                                                                            FormatBadSectors
                              06
                   6 SWB-40
                                        Allowed
                              07
                                   8.3
                                                   0000
                                                            Off
                                                                    1
                                                                            Format.Cvl
                   7 SWB-40
                              ΟE
                                   83
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            DiagnosticESDI
                   8 SWB-40
                              0 F
                                   83
                                        Allowed
                                                   0000
                                                            Off
                                                                    1
                                                                            DiagnosticESDI
                   9 SWB-40
                                                   0000
                              12
                                   8.3
                                        Allowed
                                                            Off
                                                                    1
                                                                            DiagnosticRAM
                  10 SWB-40
                                                   0000
                              1.3
                                   8.3
                                        Allowed
                                                            Off
                                                                            DiagnosticDrive
                  11 SWB-40
                                                            Off
                                   83
                                        Allowed
                                                   0000
                              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
                         13
                  82
                ***** 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
                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
```

Case SWB-40 HDL	Int_13 Ha	ard Disk Write Lock V0.7 01061	l0 (c)RCMP 1993-2001
	Case Results for 225)	Cmd Drive Action Status SWB-40 category m on drive 80	Carry Count Cmd Name O All commands blocked (225 of
	Results for 225)	SWB-40 category m on drive 83	1 All commands blocked (225 of
	Results for		2 No commands blocked (0 of 225) 3 No commands blocked (0 of 225) blocked
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 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 protected	Tool active message 4 drives identified Drive 80 is protected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected	Tool active message 4 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-09	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected	Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is unprotected Drive 83 is unprotected

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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).

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- 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.

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