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Test Results for Software Write Block Tools: RCMP HDL V0.5		

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AUG. 04 **Test Results for Software Write Block Tools: RCMP HDL VO.5** NCJ 206232



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Director

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August 2004



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Introduction

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

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. This approach to testing computer forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods are posted on the CFTT Web site (http://www.cftt.nist.gov) for 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 V0.5 (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, V0.7 and V0.8 are posted on NIJ's CFTT Web page (http://www.ojp.usdoj.gov/nij/sciencetech/cftt.htm). Test results from other software packages and the CFTT testing methodology are also posted on this page.

Test Results for Software Write Block Tools

Tool Tested: RCMP HDL V0.5 971202 @GKH 1993, 1994, 1997

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.

For all test cases run, the tool always allowed commands to obtain information from any 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 some commands that could change the contents or accessibility of a protected drive. The tool did not block four commands in the configuration category that could change the contents or accessability of a protected drive. The commands not blocked were the Initialize Drive Parameters (0x09), an EDSI Diagnostic command (0x0E), the Controller RAM Diagnostic command (0x12), and the Controller Internal Diagnostic command (0x14). The tool blocked only two commands in the miscellaneous category.

Test cases: SWB-03, SWB-04, SWB-05, SWB-06, SWB-15, SWB-16, SWB-17, and SWB-18.

3.0 Test Case Selection

The test cases were selected from the *Software Write Block Tool Specification & Test Plan Version 3.0.* All 40 test cases listed in the specification were applied to HDL V0.5.

4.0 Test Results by Assertion

This section groups the test results by assertion. The assertions were taken from the *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.

Test cases: SWB-01 and SWB-02.

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. Except for four commands, HDL blocked every command sent from the configuration category to a protected drive. The commands not blocked by the tool were the Initialize Drive Parameters (0x09), PS/2 ESDI Diagnostic (0x0E), PC/XT Controller Ram Diagnostic (0x12), and Controller Internal Diagnostic (0x14) commands.

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 only two of the commands sent from the miscellaneous category to a protected drive.

Test cases: SWB-05 and SWB-06.

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 never blocked any commands sent from the control category to a protected drive.

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 never blocked any command sent from the information category to a protected drive.

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, except for four commands, HDL blocked every command sent from the configuration category to a protected drive. The commands not blocked by the tool were the Initialize Drive Parameters (0x09), PS/2 ESDI Diagnostic (0x0E), PC/XT Controller Ram Diagnostic (0x12), and Controller Internal Diagnostic (0x14) commands.

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 only two of the commands sent from the miscellaneous category to a protected drive.

Test Cases: SWB-17 and SWB-18.

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 never blocked any command sent from the control category to a protected drive.

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 never blocked any command sent from the information category to a protected drive.

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 shut down. The test harness reported that the Extended Write (0x43) command was not blocked while the test harness was active. 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 sent to each protected drive, HDL did not block any 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 and 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 hardware components listed in common:

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¹ The Secure Hash Algorithm (SHA1), developed by NISTand the National Security Agency for use with the Digital Signature Standard (DSS), is specified within the Secure Hash Standard (SHS) (National Institute of Standards and Technology, *FIPS Publication 180: Secure Hash Standard*, May 1993, SHA-1).

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 hardware components listed in Table 5-2 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 that were used in testing 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 shows 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	17783248	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. Table 5.4 documents the setup of each drive. The **Drive Label** column shows an external identification for the hard drive. The **Partition Table** column describes the partition table for the drive. The **N** column 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		
	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		
E4	N Start LBA Length boot Partition type		
	1 P 000000063 006152832 Boot 0B Fat32		
	2 X 008193150 009735390		
	3 S 000000000 000000000 00 empty entry		
	$4 \times 002056320 \ 001237005$ 05 extended		
	5 S 000000063 001236942 07 NTFS		
	6 x 005349645 001638630		
	7 S 000000063 001638567 17 other		
	8 x 008498385 001237005 05 extended		
	9 S 000000063 001236942 1B other		
F6	N Start LBA Length boot Partition type		
	1 P 000000063 006152832 Boot 0B Fat32		
	2 X 008193150 031985415		
	3 S 000000000 000000000 00 empty entry		
	$4 \times 002056320 \ 001237005$ 05 extended		
	5 S 000000063 001236942 07 NTFS		

Drive Label	Partition Table		
	6 x 005349645 001638630		
	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 5-4). After testing was finished, a SHA1 hash value was computed again (Table 5-5). The lack of change in the SHA1 hash values indicates that no changes were made to the drives during testing.

Table 5-4. Drive SHA1 Values Before Testing

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

Table 5-5. Drive SHA1 Values After Testing

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

5.3 Support Software

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

The programs listed in Table 5-6 are required for testing.

Table 5-6. 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.

Execute a test case using general procedures 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 a permanent 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 conforms to 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 for each covered drive either the message Hard-Disk N Locked! or the message Hard-Disk N Not Locked! to indicate the protection status of each drive. If

drive N is listed on the command line to HDL and the Install HDL log reports drive N as locked, the test case conforms to 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, all commands are allowed to all drives. If the tool does not deactivate, 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 assertion does not apply to HDL.

6.2 Test Results Summary Key

A summary of the actual test results is presented in this report. Table 6-1 describes each section of the test report summary.

Table 6-1. Description of Test Report Summary

Heading	Description
First Line	Test case ID, Name and version of software tested.
Case Summary:	Test case summary from Software Write Block Tool Specification
	& Test Plan Version 3.0.
Assertions tested:	The test assertions tested by the test case from Software Write
	Block Tool Specification & Test Plan Version 3.0.
Tester Name:	Name or initials of person executing test procedure.
Test Date:	Time and date that 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 logfiles that may appear. The logfile created for TALLY13 is labeled <i>Monitor Execution</i> . The logfile created for HDL is labeled <i>Install HDL Log</i> . The logfile created by TEST-HDL is labeled <i>Test Harness Log</i> .
	For test cases SWB-39 and SWB-40, there are two separate logs for HDL and also for TEST-HDL since these cases require execution of HDL twice.
	The monitor execution logfile records the program version and the date that the TALLY13 program was executed.
	The HDL logfile is obtained by output redirection of the execution of HDL. The logfile contains the version of HDL used (V0.4), 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 to either block or 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. Interrupt 0x13 Functions. The category of interrupt 0x13
	functions tested by this case.

Heading	Description	
, g	 Date. 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. Operator. The operator running the test. Host. The host computer running the test. Drives. The number of drives and the external drive label for each drive. 	
	The next two items are repeated for each installed drive.	
	The next two items are repeated for each installed drive. 9. List of commands sent. Each line of the list has 9 columns: sequence number, test case number, command code in hex (Cmd), drive number in hex (Drv), action taken by HDL (either <i>Blocked</i> or <i>Allowed</i>), return status (0000 means success, 0300 means fail), carry flag value (labeled <i>Cry</i> with values of either <i>On</i> indicating failure status, or <i>Off</i> indicating success status), count of the number of times the command was allowed by HDL and the command name (or undefined for commands in the miscellaneous category). 10. Summary of commands for the drive. The message indicates the number of commands blocked out of the number of commands sent. 11. The last item is a summary of all the commands sent to all drives, the number of commands sent, the number blocked and the number allowed (not blocked).	
Results:	Expected and actual results for each assertion tested.	
Analysis:	Whether or not the expected results were achieved.	

7.0 Test Results Summaries

Case SWB-01 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
Case summary:	SWB-01 Install all drives, configure return code to failure, protect all		
oase summary	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:	Blive		
Test Date:	Thu Sep 25 13:23:03 2003		
Test PC:	Rumpole		
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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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		
	hd15 0123		
	test-hdl SWB-01 Rumpole Blive w 6F 8A E4 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 (09/25/03 at 13:23:00) Going TSR		
	***** Install HDL Log *****		
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 4 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
	Hard-Disk 1 Locked!		
	Hard-Disk 2 Locked! Hard-Disk 3 Locked!		
	H-D Write Lock successfully installed.		
	**** Test Harness Log ****		
	CMD: A:\TEST-HDL.EXE SWB-01 Rumpole Blive w 6F 8A E4 2B Case: SWB-01		
	Command set: Write		
	Date: Thu Sep 25 13:23:03 2003		
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19		
	Compiled on Aug 31 2003 at 08:10:54		
	Operator: Blive		
	Host: Rumpole		
	Number of drives 4, Drives: 6F 8A E4 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		
	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		
	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)		
	0 SWB-01 <03> 82 Blocked 0300 On 0 WriteSectors		
	1 SWB-01 <08> 82 Blocked 0300 On 0 WriteLong		
	2 SWB-01 <43> 82 Blocked 0300 On 0 ExtWrite		
	2 5.12 01 115, 02 DIOGREG 0500 On U BACHITCE		

Case SWB-01 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
	0 SWB-01 1 SWB-01 2 SWB-01 Results for	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 sent, 12 blocked, 0 not blocked	WriteSectors WriteLong ExtWrite All commands blocked (3 of 3)
Results:	Assertion	Expected Results	Actual Results
	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AM-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AM-01	All cmds to drive 83 blocked	All cmds to drive 83 blocked
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-11	12 Commands return fail	12 Commands return fail
Analysis:	SWB-01 Expe	cted results achieved	

Case SWB-02 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	JRL
Test Date:	Thu Sep 25 13:46:25 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 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
	hd15 s01
	test-hdl SWB-02 Wimsey JRL w 6F 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 (09/25/03 at 13:46:23) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	2 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked!
	H-D Write Lock successfully installed. ***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-02 Wimsey JRL w 6F E4
	Case: SWB-02 Willisey JRL w 6F E4
	Command set: Write
	Date: Thu Sep 25 13:46:25 2003
	Date: 1110 Sep 25 13:40:25 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
	@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
	Compiled on Aug 31 2003 at 08:10:54
	Operator: JRL
<u> </u>	Oberaror. own

Case SWB-02 HDL	Hard-Disk	(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997
	Case 0 SWB-02 1 SWB-02 2 SWB-02 Results for 0 SWB-02 1 SWB-02 2 SWB-02 Results for	rives 2, Drives: 6F E4 Cmd Drv Action Stat Cry Count	WriteSectors WriteLong ExtWrite All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite
Results:	Assertion	Expected Results	Actual Results
	AM-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AM-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AM-07	Tool active message	Tool active message
	AM-08	2 drives identified	2 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-10	6 Commands return success	6 Commands return success
Analysis:	SWB-02 Expe	cted results achieved	

Case SWB-03 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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		
restea.	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:	JRL		
Test Date:	Thu Sep 25 14:44:29 2003		
Test PC:	McCloud		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors		
Used:	211.0 00, 14201 011 10 0 1120 1120 1120 1120 1120		
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
executed:	tally13 hdl5 0		
	test-hdl SWB-03 McCloud JRL x 8A		
	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 (09/25/03 at 14:44:23) Going TSR		
	***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
	H-D Write Lock successfully installed.		
	**** Test Harness Log ****		
	CMD: A:\TEST-HDL.EXE SWB-03 McCloud JRL x 8A		
	Case: SWB-03		
	Command set: Configure		
	Date: Thu Sep 25 14:44:29 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: JRL		

Case SWB-03 HDL	Hard-Disk	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997	
	Host: McClo	Host: McCloud		
	Number of d	rives 1, Drives: 8A		
	Case (Cmd Drv Action Stat Cry Count	Cmd Name	
	0 SWB-03	<05> 80 Blocked 0300 On 0	FormatTrack	
			FormatBadSectors	
	2 SWB-03	<07> 80 Blocked 0300 On 0	FormatCyl	
	3 SWB-03	<09> 80 Allowed 0000 Off 1	InitDriveParms	
			DiagnosticESDI	
			DiagnosticESDI	
	6 SWB-03	<12> 80 Allowed 0000 Off 1	DiagnosticRAM	
	7 SWB-03	<13> 80 Blocked 0300 On 0	DiagnosticDrive	
	8 SWB-03	<14> 80 Allowed 0000 Off 1	DiagnosticCTL	
	Results for	SWB-03 category x on drive 80	Not all commands blocked (5 of	
	9)			
	Summary: 9	sent, 5 blocked, 4 not blocked	l	
Results:	Assertion	Expected Results	Actual Results	
	AM-02	All cmds to drive 80	Not all cmds to drive 80	
		blocked	blocked	
	AM-07	Tool active message	Tool active message	
	AM-08	1 drives identified	1 drives identified	
	AM-09	Drive 80 is protected	Drive 80 is protected	
	AM-11	5 Commands return fail	5 Commands return fail	
Analysis:	SWB-03 Expe	SWB-03 Expected results not achieved for assertions: AM-02		

Case SWB-04 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	Blive
Test Date:	Thu Sep 25 13:25:22 2003
Test PC: Test Software:	Rumpole
Hard Drives	SWBT 1.0
Hard Drives Used:	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors Drive 81, label 8A is a WDC WD20OEB-00CSF0 with 39102336 sectors
usea.	Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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
checaeca	hd15 S0123
	test-hdl SWB-04 Rumpole Blive x 6F 8A E4 2B
	Shutdown Test PC
Log File	***** Monitor Execution *****
Highlights:	Monitor BIOS interrupt 13h (disk service)
5 5	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now (09/25/03 at 13:25:19) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	Hard-Disk 3 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-04 Rumpole Blive x 6F 8A E4 2B
	Case: SWB-04

```
Case SWB-04 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                Command set: Configure
                Date: Thu Sep 25 13:25:22 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: Blive
                Host: Rumpole
                Number of drives 4, Drives: 6F 8A E4 2B
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-04 <05> 80 Blocked 0000 Off
                                                        0 FormatTrack
                  1 SWB-04 <06> 80 Blocked 0000 Off
                                                        0 FormatBadSectors
                  2 SWB-04 <07> 80 Blocked 0000 Off
                                                        0 FormatCyl
                  3 SWB-04 <09> 80 Allowed 0000 Off
                                                           InitDriveParms
                  4 SWB-04 <0E> 80 Allowed 0000 Off
                                                        1 DiagnosticESDI
                  5 SWB-04 <0F> 80 Blocked 0000 Off
                                                        0 DiagnosticESDI
                  6 SWB-04 <12> 80 Allowed 0000 Off
                                                        1 DiagnosticRAM
                  7 SWB-04 <13> 80 Blocked 0000 Off
                                                        0 DiagnosticDrive
                  8 SWB-04 <14> 80 Allowed 0000 Off
                                                        1 DiagnosticCTL
                Results for SWB-04 category x on drive 80 Not all commands blocked (5 of
                  0 SWB-04 <05> 81 Blocked 0000 Off
                                                        0 FormatTrack
                  1 SWB-04 <06> 81 Blocked 0000 Off
                                                        0 FormatBadSectors
                  2 SWB-04 <07> 81 Blocked 0000 Off
                                                           FormatCyl
                  3 SWB-04 <09> 81 Allowed 0000 Off
                                                        1
                                                           InitDriveParms
                  4 SWB-04 <0E> 81 Allowed 0000 Off
                                                           DiagnosticESDI
                                                        1
                  5 SWB-04 <0F> 81 Blocked 0000 Off
                                                        0
                                                           DiagnosticESDI
                                                           DiagnosticRAM
                  6 SWB-04 <12> 81 Allowed 0000 Off
                                                        1
                  7 SWB-04 <13> 81 Blocked 0000 Off
                                                        0 DiagnosticDrive
                  8 SWB-04 <14> 81 Allowed 0000 Off
                                                        1 DiagnosticCTL
                Results for SWB-04 category x on drive 81 Not all commands blocked (5 of
                  0 SWB-04 <05> 82 Blocked 0000 Off
                                                        0 FormatTrack
                  1 SWB-04 <06> 82 Blocked 0000 Off
                                                        0 FormatBadSectors
                  2 SWB-04 <07> 82 Blocked 0000 Off
                                                        0
                                                           FormatCvl
                  3 SWB-04 <09> 82 Allowed 0000 Off
                                                        1 InitDriveParms
                  4 SWB-04 <0E> 82 Allowed 0000 Off
                                                        1 DiagnosticESDI
                  5 SWB-04 <0F> 82 Blocked 0000 Off
                                                        0 DiagnosticESDI
                  6 SWB-04 <12> 82 Allowed 0000 Off
                                                        1
                                                           DiagnosticRAM
                  7 SWB-04 <13> 82 Blocked 0000 Off
                                                        0 DiagnosticDrive
                  8 SWB-04 <14> 82 Allowed 0000 Off
                                                        1 DiagnosticCTL
                Results for SWB-04 category x on drive 82 Not all commands blocked (5 of
                  0 SWB-04 <05> 83 Blocked 0000 Off
                                                        0 FormatTrack
                  1 SWB-04 <06> 83 Blocked 0000 Off
                                                        0 FormatBadSectors
                  2 SWB-04 <07> 83 Blocked 0000 Off
                                                        Ω
                                                           FormatCvl
                  3 SWB-04 <09> 83 Allowed 0000 Off
                                                        1 InitDriveParms
                  4 SWB-04 <0E> 83 Allowed 0000 Off
                                                        1 DiagnosticESDI
                  5 SWB-04 <OF> 83 Blocked 0000 Off
                                                        0
                                                           DiagnosticESDI
                  6 SWB-04 <12> 83 Allowed 0000 Off
                                                        1
                                                           DiagnosticRAM
                  7 SWB-04 <13> 83 Blocked 0000 Off
                                                        0 DiagnosticDrive
                  8 SWB-04 <14> 83 Allowed 0000 Off
                                                        1 DiagnosticCTL
                Results for SWB-04 category x on drive 83 Not all commands blocked (5 of
                Summary: 36 sent, 20 blocked, 16 not blocked
Results:
                                                         Actual Results
                 Assertion
                            Expected Results
                 AM-02
                            All cmds to drive 80
                                                          Not all cmds to drive 80
                            blocked
                                                          blocked
                 AM-02
                            All cmds to drive 81
                                                          Not all cmds to drive 81
                            blocked
                                                          blocked
                 AM-02
                            All cmds to drive 82
                                                          Not all cmds to drive 82
                                                          blocked
                            blocked
                 AM-02
                            All cmds to drive 83
                                                          Not all cmds to drive 83
                            blocked
                                                          blocked
                 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
                            Drive 82 is protected
                 AM-09
                                                         Drive 82 is protected
                            Drive 83 is protected
                 AM-09
                                                         Drive 83 is protected
```

Case SWB-04 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	AM-10 20 Commands return success 20 Commands return success
Analysis:	SWB-04 Expected results not achieved for assertions: AM-02

Case SWB-05 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	Blive
Test Date:	Thu Sep 25 13:52:51 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 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
	hd15 01
	test-hdl SWB-05 Wimsey Blive m 6F 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 (09/25/03 at 13:52:48) Going TSR
	NOW (09/25/03 at 13.52.48) GOING ISR ***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	2 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-05 Wimsey Blive m 6F E4
	Case: SWB-05
	Command set: Misc
	Date: Thu Sep 25 13:52:51 2003
	Variant 0/#) took bill on Varian 1 1 Granted 00/03/03 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: Blive
	Host: Wimsey
	Number of drives 2, Drives: 6F E4
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-05 <16> 80 Allowed 0000 Off 1 Undefined
	•••
	misc commands 17-FD results omitted
	see log files for full results
	•••
	226 SWR-05 CFF > 80 Allowed 0000 Off 1 Undefined
	226 SWB-05 <fe> 80 Allowed 0000 Off 1 Undefined 227 SWB-05 <ff> 80 Allowed 0000 Off 1 Undefined</ff></fe>
	Results for SWB-05 category m on drive 80 Not all commands blocked (2 of
	228)
	0 SWB-05 <16> 81 Allowed 0000 Off 1 Undefined
	•••
1	

Case SWB-05 HDL	Hard-Dis	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997	
	see log files for full results			
	227 SWB-05 Results for 228)	<pre><fe> 81 Allowed 0000 Off <ff> 81 Allowed 0000 Off SWB-05 category m on drive 83 6 sent, 4 blocked, 452 not blocked</ff></fe></pre>	1 Undefined 1 Not all commands blocked (2 of	
Results:	Assertion	Expected Results	Actual Results	
	AM-03	All cmds to drive 80 blocked	Not all cmds to drive 80 blocked	
	AM-03	All cmds to drive 81 blocked	Not all cmds to drive 81 blocked	
	AM-07 Tool active message 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	4 Commands return fail	4 Commands return fail	
Analysis:	SWB-05 Expe	SWB-05 Expected results not achieved for assertions: AM-03		

drives, execute miscellaneous commands. Assertions Tested: SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command. SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-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: Tester Name: Tester Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: SWBT 1.0 Hard Drives Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Commands Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd15 80 test-hdl SWB-06 McCloud JRL m 8A Shutdown Test PC Log File ***** Monitor Execution *****	Case SWB-06 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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: Test PC: McCloud Test Software: SWBT 1.0 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Commands Executed: tally13 hd15 S0 test-hd1 SWB-06 McCloud JRL m 8A Shutdown Test PC ***** Monitor Execution ****** Mily13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk O Locked! ***** Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/23/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Case summary:			
SWB-AM-O7. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-O8. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-O9. 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: Test Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: SWBT 1.0 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Commands Executed: tally13 hd15 SO test-hd1 SWB-06 McCloud JRL m 8A Shutdown Test PC Log File Highlights: Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 e(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Inc_13) Write Lock VO.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk or Locked! H-D Write Lock successfully installed. ***** Test Harness Log ****** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: e(#) bb-defs.h Version 1.1 Created 08/23/03 at 10:13:51 e(#) wb-defs.h Version 1.2 Created 08/23/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Assertions Tested:	-		
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: Test PC McCloud Test Software: SWBT 1.0 Hard Drives Used: Commands Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd15 S0 test-hd1 SWB-06 McCloud JRL m 8A Shutdown Test PC Log File ****** Monitor Execution ****** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:23:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disks (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) best-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		SWB-AM-07. 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: TRL Test Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: SWBT 1.0 Hard Drives Used: Commands Executed: Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd15 SO test-hd1 SWB-06 McCloud JRL m 8A Shutdown Test PC Log File Highlights: Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:28:05 Now (09/25/03 at 14:55:54) Going TSR ****** Install HDL Log ***** HDL Hard-Disks (Int_13) Write Lock VO.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ****** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		5		
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: JRL Test Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: Mrecloud Bad Drives Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Commands executed: both test-hdl SWB-06 McCloud JRL m 8A Shutdown Test PC 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 (09/25/03 at 14:56:54) Going TSR ****** Install HDL Log ****** HDL Hard-Disk reported by Int_13h Hard-Disk reported by Int_13h Hard-Disk reported by Int_13h Hard-Disk Cocked! H-D Write Lock successfully installed. ****** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) wb-defs.h Version 1.2 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				
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: Test Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: SWBT 1.0 Bard Drives Used: Commands Executed: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Commands Executed: Milit SO test-hdl SWB-06 McCloud JRL m 8A Shutdown Test PC Log File Highlights: Monitor BIOS interrupt 13h (disk service) tallyl3 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ******* Install HDL Log ****** HDL Hard-Disk (Int.13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk (Int.13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disk Successfully installed. ****** Test Harness Log ****** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) wb-defs.h Version 1.2 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		indicating the protection status of each drive attached to a covered		
Indicate successful command execution. Test Date:				
Test Date: Thu Sep 25 14:57:01 2003 Test PC: McCloud Test Software: SWBT 1.0 Hard Drives Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80 Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Used: Drive 80, label 8A is a WDC WD200AB				
Test PC:	Tester Name:	JRL		
Test Software: SWBT 1.0 Hard Drives Used: Commands executed: Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd15 S0 test-hdl SWB-06 McCloud JRL m 8A Shutdown Test PC 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 (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Test Date:	Thu Sep 25 14:57:01 2003		
Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors	Test PC:	McCloud		
Used: Commands executed: Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 hd15 S0 test-hd1 SWB-06 McCloud JRL m 8A 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 (09/25/03 at 14:56:54) Going TSR ****** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Test Software:	SWBT 1.0		
tally13 hd15 S0 test-hd1 SWB-06 McCloud JRL m 8A Shutdown Test PC 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 (09/25/03 at 14:56:54) Going TSR ****** Install HDL Log **** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Hard Drives Used:	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors		
hdl5 S0 test-hdl SWB-06 McCloud JRL m 8A 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 (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]		
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 (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log **** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	executed:	-		
#**** 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 (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h		test-hdl SWB-06 McCloud JRL m 8A		
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 (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		Shutdown Test PC		
tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997	Log File	**** Monitor Execution ****		
@(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54	Highlights:			
Now (09/25/03 at 14:56:54) Going TSR ***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54				
***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h		1		
HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54				
Hard-Disk 0 Locked! H-D Write Lock successfully installed. ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54				
CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		H-D Write Lock successfully installed.		
Case: SWB-06 Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51		**** Test Harness Log ****		
Command set: Misc Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51		CMD: A:\TEST-HDL.EXE SWB-06 McCloud JRL m 8A		
Date: Thu Sep 25 14:57:01 2003 Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54				
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				
@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54		Date: Thu Sep 25 14:57:01 2003		
Operator: JRL		@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19		
		Operator: JRL		

Case SWB-06 HDL	Hard-Disk	(Int_13) Write Lock V0.5 971	.202 (C)GKH 1993,1994,1997
	Host: McClor Number of d: Case (0 SWB-06 ··· mi: sec 226 SWB-06 ··· 227 SWB-06 ··· Results for 228)	cud rives 1, Drives: 8A Cmd Drv Action Stat Cry Count <16> 80 Allowed 0000 Off sc commands 17-FD results omit e log files for full results <fe> 80 Allowed 0000 Off <ff> 80 Allowed 0000 Off 13</ff></fe>	Comd Name Undefined Undefined Undefined Undefined Undefined Not all commands blocked (2 of
Results:	Assertion	Expected Results	Actual Results
1.05 0.100	AM-03	All cmds to drive 80	Not all cmds to drive 80
		blocked	blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-10	2 Commands return success	2 Commands return success
Analysis:	SWB-06 Expe	cted results not achieved for	assertions: AM-03

Case SWB-07 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
Case summary:	SWB-07 Install all drives, configure return code to failure, protect all		
	drives, execute read commands.		
Assertions	SWB-AM-04. If a drive is protected and a command from the read category		
Tested:	is issued for the protected drive then the tool shall not block the		
	command.		
	SWB-AM-07. If the tool is executed then the tool shall issue a message		
	indicating that the tool is active.		
	SWB-AM-08. If the tool is executed then the tool shall issue a message		
	indicating all drives accessible by the covered interfaces.		
	SWB-AM-09. If the tool is executed then the tool shall issue a message		
	indicating the protection status of each drive attached to a covered interface.		
	SWB-AM-11. If the tool is configured to return fail on blocked commands		
	and the tool blocks a command then the return code shall indicate		
	unsuccessful command execution.		
Tester Name:	Blive		
Test Date:	Thu Sep 25 13:27:39 2003		
Test PC:	Rumpole		
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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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		
	hd15 0123		
	test-hdl SWB-07 Rumpole Blive r 6F 8A E4 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 (09/25/03 at 13:27:37) Going TSR		
	**** Install HDL Log ****		
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
	4 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
	Hard-Disk 1 Locked!		
	Hard-Disk 2 Locked!		
	Hard-Disk 3 Locked!		
	H-D Write Lock successfully installed.		
	**** Test Harness Log ****		

Case SWB-07 HDL	Hard-Dis	k (Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997		
	CMD: A:\TES	T-HDL.EXE SWB-07 Rumpole Blive	er 6F 8A E4 2B		
	Case: SWB-0	7			
	Command set	: Read			
	Date: Thu Sep 25 13:27:39 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: Blive Host: Rumpole Number of drives 4, Drives: 6F 8A E4 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-07 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-07 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-07 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-07 category r on drive 80 No commands blocked (0 of 3) 0 SWB-07 <0A> 81 Allowed 0000 Off 1 ReadLong</pre>				
	1 SWB-07	<0A> 81 Allowed 0000 Off	l ReadLong		
	2 SWB-07	<42> 81 Allowed 0000 Off	L ExtRead		
		J -	No commands blocked (0 of 3) ReadSectors		
	1 SWB-07 <0A> 82 Allowed 0000 Off 1 ReadLong				
	2 SWB-07 <42> 82 Allowed 0000 Off 1 ExtRead				
			No commands blocked (0 of 3)		
			l ReadSectors		
	1 SWB-07	<0A> 83 Allowed 0000 Off	l ReadLong		
	2 SWB-07	<42> 83 Allowed 0000 Off	L ExtRead		
			No commands blocked (0 of 3)		
	Summary: 12	sent, 0 blocked, 12 not block	sed		
D	 				
Results:	Assertion	Expected Results	Actual Results		
	AM-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked		
	AM-04 AM-04	No cmds to drive 81 blocked No cmds to drive 82 blocked	No cmds to drive 81 blocked No cmds to drive 82 blocked		
	AM-04 AM-04	No cmds to drive 82 blocked	No cmds to drive 82 blocked No cmds to drive 83 blocked		
	AM-07	Tool active message	Tool active message		
		~	Ţ .		
	AM-08 AM-09	4 drives identified Drive 80 is protected	4 drives identified Drive 80 is protected		
	AM-09 AM-09	Drive 80 is protected Drive 81 is protected	Drive 81 is protected		
	AM-09	Drive 82 is protected	Drive 81 is protected Drive 82 is protected		
	AM-09	Drive 83 is protected	Drive 83 is protected		
		_			
	AM-11	0 Commands return fail	0 Commands return fail		

Case SWB-08 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997	
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:	Blive	
Test Date:	Thu Sep 25 13:59:35 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 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	
	hd15 s01	

Case SWB-08 HDL	ase SWB-08 HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
	test-hdl SWB-08 Wimsey Blive r 6F E4		
	Shutdown Te	st PC	
Log File	**** Monitor Execution ****		
Highlights:	Monitor BIO	S interrupt 13h (disk service)	
	tally13 com	mpiled on 07/29/03 at 07:33:1	7
	@(#) Version	n 1.1 Created 07/29/03 at 07:2	28:05
	Now (09/25/03 at 13:59:33) Going TSR		
		ll HDL Log *****	
	HDL Hard	-Disk (Int_13) Write Lock V0.	5 971202 (C)GKH 1993,1994,1997
	2 Ha:	rd-Disks reported by Int_13h	
	Hard	-Disk 0 Locked!	
	Hard	-Disk 1 Locked!	
	H-D	Write Lock successfully insta	lled.
	**** Test 1	Harness Log *****	
	CMD: A:\TES	T-HDL.EXE SWB-08 Wimsey Blive	r 6F E4
	Case: SWB-0	8	
	Command set	: Read	
	Date: Thu Se	ep 25 13:59:35 2003	
	@(#) Comp Comp Operator: B Host: Wimsey Number of d: Case (0 SWB-08 1 SWB-08 2 SWB-08 Results for 0 SWB-08 1 SWB-08 2 SWB-08 Results for	y rives 2, Drives: 6F E4 Cmd Drv Action Stat Cry Count <02> 80 Allowed 0000 Off	d 08/31/03 at 08:18:19 54 C Cmd Name ReadSectors ReadLong E ExtRead O 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 AM-07	No cmds to drive 81 blocked Tool active message	No cmds to drive 81 blocked Tool active message
	AM-07 AM-08	2 drives identified	2 drives identified
	AM-08 AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09 AM-09	Drive 80 is protected Drive 81 is protected	Drive 81 is protected
	AM-10	0 Commands return success	0 Commands return success
Analwaia:	L		O COMMISSINGS TECUTION SUCCESS
Analysis:	PMR-08 FXDe	cted results achieved	

Case SWB-09 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997	
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 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:	Blive	
Test Date:	Thu Sep 25 15:04:52 2003	
Test PC:	McCloud	
Test Software:	SWBT 1.0	
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors	
Used:		
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]	
executed:	tally13	

Case SWB-09 HDL	Hard-Disk	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
	hd15 0		
	test-hdl SWI	3-09 McCloud Blive i 8A	
	Shutdown Tes	st PC	
Log File	**** Monitor Execution ****		
Highlights:	Monitor BIOS	S interrupt 13h (disk service)	
	tally13 cor	mpiled on 07/29/03 at 07:33:17	7
	@(#) Version	n 1.1 Created 07/29/03 at 07:2	28:05
	Now (09/25/03 at 15:04:45) Going TSR		
	***** Instal	ll HDL Log *****	
	HDL Hard-	-Disk (Int_13) Write Lock V0.5	5 971202 (C)GKH 1993,1994,1997
	1 Hai	rd-Disks reported by Int_13h	
	Hard-	-Disk 0 Locked!	
		Write Lock successfully instal	led.
		Harness Log *****	
,		r-HDL.EXE SWB-09 McCloud Blive	e i 8A
	Case: SWB-09		
		: Information	
	Date: Thu Sep 25 15:04:52 2003		
	Version: @(#) test-hdl.cpp Version 1.1 Cr	reated 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		
			54
	Operator: Blive Host: McCloud Number of drives 1, Drives: 8A		
	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 <		ReadDriveParms
			TestDriveReady
			ReadDriveType
	5 SWB-09 4		CheckForExtensions
			VerifySectors
			GetDriveParms
	Results for SWB-09 category i on drive 80 No commands blocked (0 of 8)		
	Summary: 8 s	sent, 0 blocked, 8 not blocked	l
Results:	Assertion	Expected Results	Actual Results
	AM-06	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AM-07	Tool active message	Tool active message
	AM-08	1 drives identified	1 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-11	0 Commands return fail	0 Commands return fail
Analysis:	SWB-09 Exped	cted results achieved	<u> </u>

Case SWB-10 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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:	Blive		
Test Date:	Thu Sep 25 13:30:34 2003		
Test PC:	Rumpole		
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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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]		

Case SWB-10 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
executed:	tally13
	hdl5 S0123
	test-hdl SWB-10 Rumpole Blive i 6F 8A E4 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 (09/25/03 at 13:30:31) Going TSR
	***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	Hard-Disk 3 Locked!
	H-D Write Lock successfully installed. ***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-10 Rumpole Blive i 6F 8A E4 2B
	Case: SWB-10
	Command set: Information
	Date: Thu Sep 25 13:30:34 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: Blive
	Host: Rumpole
	Number of drives 4, Drives: 6F 8A E4 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-10 <01> 80 Allowed 0000 Off 1 GetLastStatus
	1 SWB-10 <04> 80 Allowed 0000 Off 1 VerifySectors
	2 SWB-10 <08> 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 80 Allowed 0000 Off 1 TestDriveReady
	3 SWB-10 <10> 80 Allowed 0000 Off 1 TestDriveReady
	4 SWB-10 <15> 80 Allowed 0000 Off 1 ReadDriveType
	5 SWB-10 <41> 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-10 <44> 80 Allowed 0000 Off 1 VerifySectors
	7 SWB-10 <48> 80 Allowed 0000 Off 1 GetDriveParms
	Results for SWB-10 category i on drive 80 No commands blocked (0 of 8)
	0 SWB-10 <01> 81 Allowed 0000 Off 1 GetLastStatus
	1 SWB-10 <04> 81 Allowed 0000 Off 1 VerifySectors
	2 SWB-10 <08> 81 Allowed 0000 Off 1 ReadDriveParms 3 SWB-10 <10> 81 Allowed 0000 Off 1 TestDriveReady
	3 SWB-10 <10> 81 Allowed 0000 Off 1 TestDriveReady 4 SWB-10 <15> 81 Allowed 0000 Off 1 ReadDriveType
	5 SWB-10 <41> 81 Allowed 0000 Off 1 CheckForExtensions
	6 SWB-10 <44> 81 Allowed 0000 Off 1 VerifySectors
	7 SWB-10 <48> 81 Allowed 0000 Off 1 GetDriveParms
	Results for SWB-10 category i on drive 81 No commands blocked (0 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 Allowed 0000 Off 1 ReadDriveType
	5 SWB-10 <41> 82 Allowed 0000 Off 1 CheckForExtensions
	6 SWB-10 <44> 82 Allowed 0000 Off 1 VerifySectors
	7 SWB-10 <48> 82 Allowed 0000 Off 1 GetDriveParms Results for SWB-10 category i on drive 82 No commands blocked (0 of 8)
	0 SWB-10 <01> 83 Allowed 0000 Off 1 GetLastStatus
	1 SWB-10 <04> 83 Allowed 0000 Off 1 VerifySectors
	2 SWB-10 <08> 83 Allowed 0000 Off 1 ReadDriveParms
	3 SWB-10 <10> 83 Allowed 0000 Off 1 TestDriveReady
	4 SWB-10 <15> 83 Allowed 0000 Off 1 ReadDriveType 5 SWB-10 <41> 83 Allowed 0000 Off 1 CheckForExtensions
	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 No commands blocked (0 of 8)
	Summary: 32 sent, 0 blocked, 32 not blocked
Dogulta:	Taxantian Remarked Bornika 2 7 2
Results:	Assertion Expected Results Actual Results AM-06 No cmds to drive 80 blocked No cmds to drive 80 blocked
	AM-06 No cmds to drive 81 blocked No cmds to drive 81 blocked
	I TO THE OF THE PERSON NO CHARLES OF THE OF THE PERSON OF

Case SWB-10 HDL	Hard-Dis	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
	AM-06	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AM-06	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-10	0 Commands return success	0 Commands return success
Analysis: SWB-10 Expected results achieved			

Case SWB-11 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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		
Mashan Namat	unsuccessful command execution.		
Tester Name:	Blive		
Test Date:	Thu Sep 25 14:02:11 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 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		
	hdl5 01		
	test-hdl SWB-11 Wimsey Blive c 6F E4 Shutdown Test PC		
Log File	**** Monitor Execution ****		
Highlights:	Monitor BIOS interrupt 13h (disk service)		
HIGHIIGHUS.	tally13 compiled on 07/29/03 at 07:33:17		
	@(#) Version 1.1 Created 07/29/03 at 07:28:05		
	Now (09/25/03 at 14:02:09) Going TSR		
	***** Install HDL Log *****		
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
	2 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
	Hard-Disk 1 Locked!		
	H-D Write Lock successfully installed.		
	**** Test Harness Log ****		
	CMD: A:\TEST-HDL.EXE SWB-11 Wimsey Blive c 6F E4		
	Case: SWB-11		
	Command set: Control		
	Date: Thu Sep 25 14:02:11 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: Blive		
	Host: Wimsey		
	Number of drives 2, Drives: 6F E4 Case Cmd Drv Action Stat Cry Count Cmd Name		
	-		
	0 SWB-11 <00> 80 Allowed 0000 Off		
	2 SWB-11 <0C> 80 Allowed 0000 Off 1 AltReset		
	3 SWB-11 <11> 80 Allowed 0000 Off 1 Recalibrate		
	4 SWB-11 <47> 80 Allowed 0000 Off 1 ExtendedSeek		
	Results for SWB-11 category c on drive 80 No commands blocked (0 of 5)		
	0 SWB-11 <00> 81 Allowed 0000 Off 1 Reset		
	1 SWB-11 <00> 81 Allowed 0000 Off 1 SeekDrive		
	2 SWB-11 <00> 81 Allowed 0000 Off 1 AltReset		
	2 DID II TOP OF ATTOWCO COOL OFF I ATCHESEC		

Case SWB-11 HDL	Hard-Dis	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
	4 SWB-11 Results for	<11> 81 Allowed 0000 Off 3 <47> 81 Allowed 0000 Off 3 SWB-11 category c on drive 8 sent, 0 blocked, 10 not block	l ExtendedSeek l No commands blocked (0 of 5)
Results:	Assertion	Expected Results	Actual Results
	AM-05	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AM-05	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-11	0 Commands return fail	0 Commands return fail
Analysis:	SWB-11 Expected results achieved		

Case SWB-12 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997			
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:	JRL			
Test Date:	Mon Sep 22 15:09:20 2003			
Test PC:	AndWife			
Test Software:	SWBT 1.0			
Hard Drives Used:	Drive 80, label 64 is a WDC WD64AA with 12594960 sectors			
Commands	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]			
executed:	tally13			
	hd15 S0			
	test-hdl SWB-12 AndWife JRL c 64			
T T-1 -	Shutdown Test PC			
Log File Highlights:	***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)			
HIGHITIGHTS.	tally13 compiled on 07/29/03 at 07:33:17			
	@(#) Version 1.1 Created 07/29/03 at 07:28:05			
	Now (09/22/03 at 15:09:13) Going TSR			
	***** Install HDL Log *****			
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 1 Hard-Disks reported by Int_13h			
	Hard-Disk 0 Locked!			
	H-D Write Lock successfully installed.			
	***** Test Harness Log *****			
	CMD: A:\TEST-HDL.EXE SWB-12 AndWife JRL c 64			
	Case: SWB-12			
	Command set: Control Date: Mon Sep 22 15:09:20 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: AndWife			
	Number of drives 1, Drives: 64 Case Cmd Drv Action Stat Cry Count Cmd Name			
	0 SWB-12 <00> 80 Allowed 0000 Off 1 Reset			
	1 SWB-12 <0C> 80 Allowed 0000 Off 1 SeekDrive			
	2 SWB-12 <od> 80 Allowed 0000 Off 1 AltReset</od>			
	3 SWB-12 <11> 80 Allowed 0000 Off 1 Recalibrate			
	4 SWB-12 <47> 80 Allowed 0000 Off 1 ExtendedSeek			

Case SWB-12 HDL	Hard-Disk	(Int_13) Write Lock V0.5 971	.202 (C)GKH 1993,1994,1997
		9 1	No commands blocked (0 of 5)
	Summary: 5 sent, 0 blocked, 5 not blocked		
Results:	Assertion	Expected Results	Actual Results
Results.	ASSELLION	*	Actual Results
	AM-05	No cmds to drive 80 blocked	No 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	0 Commands return success	0 Commands return success
Analysis: SWB-12 Expected results achieved			

Case SWB-13 HDI	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-13 Install all drives, configure return code to failure, protect with pattern odd, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.
	SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.
	SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.
Tester Name:	Blive
Test Date:	Thu Sep 25 13:34:55 2003
Test PC:	Rumpole
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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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 hd15 13
	test-hdl SWB-13 Rumpole Blive w 6F 8A E4 2B
T	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 (09/25/03 at 13:34:53) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 4 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked! Hard-Disk 1 Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 3 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-13 Rumpole Blive w 6F 8A E4 2B Case: SWB-13
	Command set: Write
	Date: Thu Sep 25 13:34:55 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: Blive
	Host: Rumpole
	Number of drives 4, Drives: 6F 8A E4 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-13 <03> 80 Allowed 0000 Off 1 WriteSectors

Case SWB-13 HDL	Hard-Dis	(Int_13) Write Lock V0.5 9712	202 (C)GKH 1993,1994,1997
	1 SWB-13	<0B> 80 Allowed 0000 Off 1	WriteLong
	2 SWB-13	<43> 80 Allowed 0000 Off 1	ExtWrite
	Results for	SWB-13 category w on drive 80	No commands blocked (0 of 3)
	0 SWB-13	<03> 81 Blocked 0300 On 0	WriteSectors
	1 SWB-13	<0B> 81 Blocked 0300 On 0	WriteLong
	2 SWB-13	<43> 81 Blocked 0300 On 0	ExtWrite
		SWB-13 category w on drive 81	All commands blocked (3 of 3)
			WriteSectors
		<0B> 82 Allowed 0000 Off 1	3
			ExtWrite
		SWB-13 category w on drive 82	
			WriteSectors
		<0B> 83 Blocked 0300 On 0	5
	2 SWB-13		ExtWrite
			All commands blocked (3 of 3)
		SWB-13 category w on drive 83 sent, 6 blocked, 6 not blocked	
Results:			
Results:	Summary: 12	sent, 6 blocked, 6 not blocked	d
Results:	Summary: 12 Assertion	sent, 6 blocked, 6 not blocked Expected Results	Actual Results
Results:	Summary: 12 Assertion AM-07	sent, 6 blocked, 6 not blocked 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 AM-08 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is unprotected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected
Results:	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:	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 unprotected	Actual Results Tool active message 4 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	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	Expected Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail	Actual Results Tool active message 4 drives identified Drive 80 is unprotected Drive 81 is protected Drive 82 is unprotected Drive 83 is protected 6 Commands return fail
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-01 AO-01	Expected Results Tool active message 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	Actual Results Tool active message 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
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-01 AO-01	Expected Results Tool active message 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	Actual Results Tool active message 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

Case SWB-14 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	Blive
Test Date:	Thu Sep 25 13:37:55 2003
Test Date:	Thu Sep 25 13:37:55 2003
Test Date: Test PC:	Thu Sep 25 13:37:55 2003 Rumpole
Test Date: Test PC: Test Software:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0
Test Date: Test PC: Test Software: Hard Drives	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80,
Test Date: Test PC: Test Software: Hard Drives	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Test Date: Test PC: Test Software: Hard Drives Used:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Test Date: Test PC: Test Software: Hard Drives	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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]
Test Date: Test PC: Test Software: Hard Drives Used:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13
Test Date: Test PC: Test Software: Hard Drives Used: Commands	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01
Test Date: Test PC: Test Software: Hard Drives Used: Commands	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hd1 SWB-14 Rumpole Blive w 13 6F 8A E4 2B
Test Date: Test PC: Test Software: Hard Drives Used: Commands executed:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hdl SWB-14 Rumpole Blive w 13 6F 8A E4 2B Shutdown Test PC
Test Date: Test PC: Test Software: Hard Drives Used: Commands executed:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hd1 SWB-14 Rumpole Blive w 13 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution *****
Test Date: Test PC: Test Software: Hard Drives Used: Commands executed:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hd1 SWB-14 Rumpole Blive w 13 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)
Test Date: Test PC: Test Software: Hard Drives Used: Commands executed:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hd1 SWB-14 Rumpole Blive w 13 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17
Test Date: Test PC: Test Software: Hard Drives Used: Commands executed:	Thu Sep 25 13:37:55 2003 Rumpole SWBT 1.0 Drive 80, Drive 81, label 6F is a Maxtor 6Y060L0 with 120103200 sectors Drive 82, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S01 test-hd1 SWB-14 Rumpole Blive w 13 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)

Case SWB-14 HDL		(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997
Case SWB-14 HDL	***** Instal HDL Hard 4 Hard Hard Hard Hard Hard Hard Hard Hard	Il HDL Log **** -Disk (Int_13) Write Lock V0.5 rd-Disks reported by Int_13h -Disk 0 Locked! -Disk 1 Locked! -Disk 2 Not Locked! -Disk 3 Not Locked! Write Lock successfully install Harness Log **** I'-HDL.EXE SWB-14 Rumpole Blive # : Write ep 25 13:37:55 2003 #) test-hdl.cpp Version 1.1 Cre wb-defs.h Version 1.2 Created biled on Aug 31 2003 at 08:10:5 live le rives 5, Drives: 13 6F 8A E4 2F Cmd Drv Action Stat Cry Count <03> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0 <43> 80 Blocked 0000 Off 0 <5WB-14 category w on drive 80 <03> 81 Blocked 0000 Off 0 <swb-14 81="" <03="" category="" drive="" on="" w=""> 82 Allowed 0000 Off 1 <5WB-14 category w on drive 81 <03> 82 Allowed 0000 Off 1 <5WB-14 category w on drive 81 <03> 82 Allowed 0000 Off 1 <5WB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <5WB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <5WB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <5WB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <5WB-14 category w on drive 82 <03> 83 Allowed 0000 Off 1 <5WB-14 category w on drive 83 <03> 84 Allowed 0000 Off 1 <5WB-14 category w on drive 83 <03> 84 Allowed 0000 Off 1</swb-14>	971202 (C)GKH 1993,1994,1997 led. w 13 6F 8A E4 2B 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 All commands blocked (3 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3) WriteSectors WriteLong ExtWrite No commands blocked (0 of 3)
Results:	Assertion	Expected Results	Actual Results
	AM-07 AM-08	Tool active message 5 drives identified	Tool active message 4 drives identified
	AM-08	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09 AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09		Drive 83 is unprotected
		Drive 83 is unprotected	_
	AM-10	6 Commands return success	6 Commands return success
	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
Analysis:	SWB-14 Expe	cted results achieved	

Case SWB-15 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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.

Case SWB-15 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
0000 0110 10 1101	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:	Blive
Test Date:	Thu Sep 25 13:40:54 2003
Test PC: Test Software:	Rumpole 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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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
	hd15 0
	test-hdl SWB-15 Rumpole Blive x 6F 8A E4 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 (09/25/03 at 13:40:52) Going TSR ***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 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!
	H-D Write Lock successfully installed.
	***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-15 Rumpole Blive x 6F 8A E4 2B
	Case: SWB-15
	Command set: Configure
	Date: Thu Sep 25 13:40:54 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: Blive Host: Rumpole
	Number of drives 4, Drives: 6F 8A E4 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 <0F> 80 Blocked 0300 On 0 DiagnosticESDI 6 SWB-15 <12> 80 Allowed 0000 Off 1 DiagnosticRAM
	6 SWB-15 <12> 80 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-15 <13> 80 Blocked 0300 On 0 DiagnosticDrive
	8 SWB-15 <14> 80 Allowed 0000 Off 1 DiagnosticCTL
	Results for SWB-15 category x on drive 80 Not all commands blocked (5 of
	9) 0 SWB-15 <05> 81 Allowed 0000 Off
	1 SWB-15 <06> 81 Allowed 0000 Off 1 FormatBadSectors
	2 SWB-15 <07> 81 Allowed 0000 Off 1 FormatCyl
	3 SWB-15 <09> 81 Allowed 0000 Off 1 InitDriveParms
	4 SWB-15 <0E> 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 81 Allowed 0000 Off 1 DiagnosticESDI
	6 SWB-15 <12> 81 Allowed 0000 Off 1 DiagnosticRAM
	7 SWB-15 <13> 81 Allowed 0000 Off 1 DiagnosticDrive
	8 SWB-15 <14> 81 Allowed 0000 Off 1 DiagnosticCTL
	Results for SWB-15 category x on drive 81 No commands blocked (0 of 9) 0 SWB-15 <05> 82 Allowed 0000 Off 1 FormatTrack
	1 SWB-15 <06> 82 Allowed 0000 Off 1 FormatBadSectors
	2 SWB-15 <07> 82 Allowed 0000 Off 1 FormatCyl
	3 SWB-15 <09> 82 Allowed 0000 Off 1 InitDriveParms
	4 SWB-15 <0E> 82 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-15 <0F> 82 Allowed 0000 Off 1 DiagnosticESDI
	2 PMP-13 ZOLS 05 WITOMEN AAAA OLI I DIGANOSCICEPDI

Case SWB-15 HDL	Hard-Dis	k (Int_13) Write Lock V0.5 971	L202 (C)GKH 1993,1994,1997
	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	l DiagnosticCTL
	Results for	SWB-15 category x on drive 82	2 No commands blocked (0 of 9)
	0 SWB-15	<05> 83 Allowed 0000 Off	1 FormatTrack
	1 SWB-15	<06> 83 Allowed 0000 Off	1 FormatBadSectors
	2 SWB-15	<07> 83 Allowed 0000 Off	1 FormatCyl
	3 SWB-15	<09> 83 Allowed 0000 Off	l InitDriveParms
	4 SWB-15	<0E> 83 Allowed 0000 Off	l DiagnosticESDI
	5 SWB-15	<of> 83 Allowed 0000 Off</of>	l DiagnosticESDI
			1 DiagnosticRAM
	7 SWB-15		l DiagnosticDrive
	8 SWB-15	<14> 83 Allowed 0000 Off	1 DiagnosticCTL
	Results for	SWB-15 category x on drive 83	3 No commands blocked (0 of 9)
		sent, 5 blocked, 31 not block	
Danilta	Summary: 36	sent, 5 blocked, 31 not block	ked
Results:	Summary: 36 Assertion	sent, 5 blocked, 31 not block Expected Results	ked Actual Results
Results:	Summary: 36 Assertion AM-07	sent, 5 blocked, 31 not block Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion AM-07 AM-08	sent, 5 blocked, 31 not block Expected Results Tool active message 4 drives identified	Actual Results Tool active message 4 drives identified
Results:	Assertion AM-07 AM-08 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected	Actual Results Tool active message 4 drives identified Drive 80 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	Expected Results Tool active message 4 drives identified Drive 80 is protected	Actual Results Tool active message 4 drives identified Drive 80 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 unprotected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail All cmds to drive 80	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail Not all cmds to drive 80
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-01 AO-02	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail All cmds to drive 80 blocked	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail Not all cmds to drive 80 blocked
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-11 AO-02 AO-07	Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is unprotected Drive 83 is unprotected 5 Commands return fail All cmds to drive 80 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 unprotected Drive 83 is unprotected 5 Commands return fail Not all cmds to drive 80 blocked No cmds to drive 81 blocked

Case SWB-16 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-16 Install all drives, configure return code to success, protect with
ouse summary	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.
100000	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-10. If the tool is configured to return success on blocked
	commands and the tool blocks a command then the return code shall
	indicate successful command execution.
	SWB-AO-02. If a subset of all covered drives is specified for protection,
	then commands from the configuration category shall be blocked for
	drives in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.
Tester Name:	Blive
Test Date:	Thu Sep 25 13:43:16 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
TODE DOLLWATE.	
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
Hard Drives	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Hard Drives Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Hard Drives Used: Commands	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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]
Hard Drives Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13
Hard Drives Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2
Hard Drives Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B Shutdown Test PC
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution *****
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service)
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 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
Hard Drives Used: Commands executed:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors 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] tally13 hd15 S2 test-hd1 SWB-16 Rumpole Blive x 6F 8A E4 2B Shutdown Test PC ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17

```
Case SWB-16 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                        4 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!
                       H-D Write Lock successfully installed.
                ***** Test Harness Log *****
                CMD: A:\TEST-HDL.EXE SWB-16 Rumpole Blive x 6F 8A E4 2B
                Case: SWB-16
                Command set: Configure
                Date: Thu Sep 25 13:43:16 2003
                Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
                        @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
                        Compiled on Aug 31 2003 at 08:10:54
                Operator: Blive
                Host: Rumpole
                Number of drives 4, Drives: 6F 8A E4 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
                                                        1 FormatCyl
                  2 SWB-16 <07> 80 Allowed 0000 Off
                                                         1 InitDriveParms
1 DiagnosticESDI
                  3 SWB-16 <09> 80 Allowed 0000 Off
                  4 SWB-16 <0E> 80 Allowed 0000 Off
                  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
                                                            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
                  1 SWB-16 <06> 81 Allowed 0000 Off
                  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
                                                        1 DiagnosticESDI
                  5 SWB-16 <0F> 81 Allowed 0000 Off
                  6 SWB-16 <12> 81 Allowed 0000 Off
                                                        1 DiagnosticRAM
                                                         1 DiagnosticDrive
1 DiagnosticCTL
                  7 SWB-16 <13> 81 Allowed 0000 Off
                  8 SWB-16 <14> 81 Allowed 0000 Off
                Results for SWB-16 category x on drive 81 No commands blocked (0 of 9)
                  0 SWB-16 <05> 82 Blocked 0000 Off $\tt 0$ FormatTrack
                  1 SWB-16 <06> 82 Blocked 0000 Off
                                                         0 FormatBadSectors
                                                         0 FormatCyl
                  2 SWB-16 <07> 82 Blocked 0000 Off
                  3 SWB-16 <09> 82 Allowed 0000 Off
                                                        1 InitDriveParms
                  4 SWB-16 <0E> 82 Allowed 0000 Off
                                                         1 DiagnosticESDI
                                                         0 DiagnosticESDI
                  5 SWB-16 <0F> 82 Blocked 0000 Off
                  6 SWB-16 <12> 82 Allowed 0000 Off
                                                        1 DiagnosticRAM
                  7 SWB-16 <13> 82 Blocked 0000 Off
                                                         0 DiagnosticDrive
                  8 SWB-16 <14> 82 Allowed 0000 Off
                                                         1 DiagnosticCTL
                Results for SWB-16 category x on drive 82 Not all commands blocked (5 of
                                                         1 FormatTrack
                  0 SWB-16 <05> 83 Allowed 0000 Off
                  1 SWB-16 <06> 83 Allowed 0000 Off
                                                         1
                                                            FormatBadSectors
                                                        1 FormatCyl
                  2 SWB-16 <07> 83 Allowed 0000 Off
                  3 SWB-16 <09> 83 Allowed 0000 Off
                                                        1 InitDriveParms
                                                         1 DiagnosticESDI
1 DiagnosticESDI
                  4 SWB-16 <0E> 83 Allowed 0000 Off
                  5 SWB-16 <0F> 83 Allowed 0000 Off
                  6 SWB-16 <12> 83 Allowed 0000 Off
                                                        1 DiagnosticRAM
                  7 SWB-16 <13> 83 Allowed 0000 Off
                                                         1 DiagnosticDrive
                  8 SWB-16 <14> 83 Allowed 0000 Off
                                                         1 DiagnosticCTL
                Results for SWB-16 category x on drive 83 No commands blocked (0 of 9)
                Summary: 36 sent, 5 blocked, 31 not blocked
Results:
                 Assertion
                             Expected Results
                                                           Actual Results
                 AM-07
                             Tool active message
                                                           Tool active message
                 AM-08
                                                           4 drives identified
                             4 drives identified
                 AM-09
                             Drive 80 is unprotected
                                                           Drive 80 is unprotected
                 AM-09
                             Drive 81 is unprotected
                                                           Drive 81 is unprotected
                 AM-09
                             Drive 82 is protected
                                                           Drive 82 is protected
                 AM-09
                             Drive 83 is unprotected
                                                           Drive 83 is unprotected
                 AM-10
                             5 Commands return success
                                                           5 Commands return success
```

Case SWB-16 HDL	Hard-Dis	(Int_13) Write Lock V0.5 971	1202 (C)GKH 1993,1994,1997
	AO-02	All cmds to drive 82	Not all cmds to drive 82
		blocked	blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 83 blocked	No cmds to drive 83 blocked
Analysis:	SWB-16 Expe	cted results not achieved for	assertions: AO-02

Case SWB-17 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-17 Install all drives, configure return code to failure, protect with pattern random_p, execute miscellaneous commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-11. If the tool is configured to return fail on blocked commands
	and the tool blocks a command then the return code shall indicate
	unsuccessful command execution.
	SWB-AO-03. If a subset of all covered drives is specified for protection,
	then commands from the miscellaneous category shall be blocked for
	drives in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
The set of Manage	the selected subset.
Tester Name:	Blive
Test Date: Test PC:	Thu Sep 25 13:45:19 2003
Test PC: Test Software:	Rumpole SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
useu.	Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 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
	hd15 1
	test-hdl SWB-17 Rumpole Blive m 6F 8A E4 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 (09/25/03 at 13:45:17) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 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!
	H-D Write Lock successfully installed. ***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-17 Rumpole Blive m 6F 8A E4 2B
	Case: SWB-17
	Command set: Misc
	Date: Thu Sep 25 13:45:19 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: Blive
	Host: Rumpole
	Number of drives 4, Drives: 6F 8A E4 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-17 <16> 80 Allowed 0000 Off 1 Undefined
	•••
	misc commands 17-FD results omitted
	ISC COmmunica I/ IS ICBUICS OMITCECU
	see log files for full results
L	

```
Case SWB-17 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                226 SWB-17 <FE> 80 Allowed 0000 Off
                                                          1 Undefined
                 227 SWB-17 <FF> 80 Allowed 0000 Off 1 Undefined
                Results for SWB-17 category m on drive 80 No commands blocked (0 of 228)
                   0 SWB-17 <16> 81 Allowed 0000 Off
                                                         1 Undefined
                          misc commands 17-FD results omitted
                          see log files for full results
                226 SWB-17 <FE> 81 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 81 Allowed 0000 Off 1 Undefined
                Results for SWB-17 category m on drive 81 Not all commands blocked (2 of
                   0 SWB-17 <16> 82 Allowed 0000 Off
                                                          1 Undefined
                          misc commands 17-FD results omitted
                          see log files for full results
                226 SWB-17 <FE> 82 Allowed 0000 Off 1 Undefined 227 SWB-17 <FF> 82 Allowed 0000 Off 1 Undefined
                Results for SWB-17 category m on drive 82 No commands blocked (0 of 228)
                   0 SWB-17 <16> 83 Allowed 0000 Off 1 Undefined
                          misc commands 17-FD results omitted
                          see log files for full results
                                                      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)
                 Summary: 912 sent, 2 blocked, 910 not blocked
Results:
                                                            Actual Results
                 Assertion
                             Expected Results
                 AM-07
                             Tool active message
                                                           Tool active message
                  80-MA
                             4 drives identified
                                                            4 drives identified
                 AM-09
                             Drive 80 is unprotected
                                                            Drive 80 is unprotected
                  AM-09
                             Drive 81 is protected
                                                            Drive 81 is protected
                 AM-09
                             Drive 82 is unprotected
                                                            Drive 82 is unprotected
                 AM-09
                             Drive 83 is unprotected
                                                           Drive 83 is unprotected
                  AM-11
                              2 Commands return fail
                                                            2 Commands return fail
                  AO-03
                             All cmds to drive 81
                                                            Not all cmds to drive 81
                             blocked
                                                            blocked
                             No cmds to drive 80 blocked No cmds to drive 80 blocked
                  AO-07
                  AO-07
                             No cmds to drive 82 blocked No cmds to drive 82 blocked
                 AO-07
                             No cmds to drive 83 blocked No cmds to drive 83 blocked
Analysis:
                SWB-17 Expected results not achieved for assertions: AO-03
```

Case SWB-18 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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.

Case SWB-18 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	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:	Blive
Test Date:	Thu Sep 25 13:47:29 2003
Test PC:	Rumpole
Test Software: Hard Drives	SWBT 1.0 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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
- 1	Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13
Checuteu	hd15 S012
	test-hdl SWB-18 Rumpole Blive m 6F 8A E4 2B
Iog Filo	Shutdown Test PC ***** Monitor Execution *****
Log File Highlights:	Monitor BIOS interrupt 13h (disk service)
3 3	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now (09/25/03 at 13:47:27) Going TSR ***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked! Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	Hard-Disk 3 Not Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-18 Rumpole Blive m 6F 8A E4 2B
	Case: SWB-18
	Command set: Misc
	Date: Thu Sep 25 13:47:29 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: Blive
	Host: Rumpole
	Number of drives 4, Drives: 6F 8A E4 2B
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-18 <16> 80 Allowed 0000 Off 1 Undefined
	misc commands 17-FD results omitted
	see log files for full results
	226 SWB-18 <fe> 80 Allowed 0000 Off 1 Undefined</fe>
	227 SWB-18 <ff> 80 Allowed 0000 Off 1 Undefined</ff>
	Results for SWB-18 category m on drive 80 Not all commands blocked (2 of
	228) 0. SWP 19 <16> 91 Allowed 0000 Off 1 Undefined
	0 SWB-18 <16> 81 Allowed 0000 Off 1 Undefined
	misc commands 17-FD results omitted
	see log files for full results
	206 CMD 10 cDD
	226 SWB-18 <fe> 81 Allowed 0000 Off 1 Undefined 227 SWB-18 <ff> 81 Allowed 0000 Off 1 Undefined</ff></fe>

case swb-rg H	DL Hard-Dis	k (Int_13) Write Lock V0.5 971	.202 (C)GKH 1993,1994,1997
	Results for	SWB-18 category m on drive 8	Not all commands blocked (2 of
	228)		
	0 SWB-18	<16> 82 Allowed 0000 Off	l Undefined
	• •	•	
	mi	sc commands 17-FD results omi	tted
	se	e log files for full results	
	227 SWB-18	<fe> 82 Allowed 0000 Off <ff> 82 Allowed 0000 Off SWB-18 category m on drive 8</ff></fe>	1 Undefined 1 Undefined 2 Not all commands blocked (2 of
	,	<16> 83 Allowed 0000 Off .	1 Undefined
	mi	sc commands 17-FD results omi	tted
	se	e log files for full results	
	• • •	•	
	226 SWB-18 227 SWB-18 Results for	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off</ff></fe></pre>	1 Undefined 3 No commands blocked (0 of 228)
Results:	226 SWB-18 227 SWB-18 Results for	<fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked</ff></fe>	1 Undefined 3 No commands blocked (0 of 228)
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91	<fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked</ff></fe>	1 Undefined 3 No commands blocked (0 of 228) ocked Actual Results
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message</ff></fe></pre>	1 Undefined 3 No commands blocked (0 of 228) bocked Actual Results Tool active message
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07	<fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked</ff></fe>	1 Undefined 3 No commands blocked (0 of 228) ocked Actual Results
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected</ff></fe></pre>	1 Undefined 3 No commands blocked (0 of 228) bocked Actual Results Tool active message 4 drives identified
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified</ff></fe></pre>	1 Undefined 3 No commands blocked (0 of 228) bocked Actual Results Tool active message 4 drives identified Drive 80 is protected
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected</ff></fe></pre>	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09 AM-09	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected</ff></fe></pre>	I Undefined 3 No commands blocked (0 of 228) bocked Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected</ff></fe></pre>	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 6 Commands return success All cmds to drive 80</ff></fe></pre>	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 82 is protected Drive 83 is unprotected 6 Commands return success Not all cmds to drive 80
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 6 Commands return success All cmds to drive 80 blocked All cmds to drive 81</ff></fe></pre>	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 6 Commands return success Not all cmds to drive 80 blocked Not all cmds to drive 81
Results:	226 SWB-18 227 SWB-18 Results for Summary: 91 Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-03 AO-03	<pre><fe> 83 Allowed 0000 Off <ff> 83 Allowed 0000 Off SWB-18 category m on drive 8 2 sent, 6 blocked, 906 not blocked Expected Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 82 is protected Drive 83 is unprotected 6 Commands return success All cmds to drive 80 blocked All cmds to drive 81 blocked All cmds to drive 82</ff></fe></pre>	Actual Results Tool active message 4 drives identified Drive 80 is protected Drive 81 is protected Drive 83 is unprotected Drive 83 is unprotected Not all cmds to drive 80 blocked Not all cmds to drive 81 blocked Not all cmds to drive 82 blocked

Case SWB-19 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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
	<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-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:	Blive
Test Date:	Thu Sep 25 13:50:38 2003
Test PC:	Rumpole
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 6F is a Maxtor 6Y06OLO with 120103200 sectors

Case SWB-19 HDI	Hard-Disl	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
Used:	Drive 81, la	abel 8A is a WDC WD200EB-00CS	70 with 39102336 sectors
	Drive 82, 1	abel E4 is a QUANTUM ATLAS10K2	2-TY092J with 17938985 sectors
	Drive 83, 1	abel 2B is a Quantum QM39100TI	O-SCA Drive with 17783249 sectors
Commands	Boot Test P	C to (DOS 7.1) Windows 98 [Ver	rsion 4.10.2222]
executed:	tally13		
	hd15 3		
		B-19 Rumpole Blive r 6F 8A E4	2B
	Shutdown Te		
Log File		or Execution *****	
Highlights:		S interrupt 13h (disk service)	
	_	mpiled on 07/29/03 at 07:33:1	
		n 1.1 Created 07/29/03 at 07:2	
		, ,	TSR
		ll HDL Log *****	
			5 971202 (C)GKH 1993,1994,1997
		rd-Disks reported by Int_13h	
		-Disk 0 Not Locked! -Disk 1 Not Locked!	
		-Disk 1 Not Locked! -Disk 2 Not Locked!	
		-Disk 2 Not Locked! -Disk 3 Locked!	
		-Disk 3 Locked! Write Lock successfully instal	led
		Write Lock successiumly insta. Harness Log *****	LICU.
		Harness Log	r 6F 8A E4 2B
	CMD: A: (IES Case: SWB-1	_	, I OF OR ET 2D
	Command set		
		ep 25 13:50:38 2003	
	Date. IIIu 5	ep 23 13:30:30 2003	
	Version: @(#) test-hdl.cpp Version 1.1 C	reated 08/23/03 at 10:13:51
	·	wb-defs.h Version 1.2 Create	
		iled on Aug 31 2003 at 08:10:	
	Operator: B		
	Host: Rumpo		
	Number of d	rives 4, Drives: 6F 8A E4 2B	
		Cmd Drv Action Stat Cry Count	Cmd Name
	0 SWB-19 <02> 80 Allowed 0000 Off 1 ReadSectors		
	1 SWB-19	<0A> 80 Allowed 0000 Off	ReadLong
	2 SWB-19	<42> 80 Allowed 0000 Off	ExtRead
	Results for	SWB-19 category r on drive 80	No commands blocked (0 of 3)
	0 SWB-19	<02> 81 Allowed 0000 Off	ReadSectors
	1 SWB-19 <0A> 81 Allowed 0000 Off 1 ReadLong		ReadLong
			ExtRead
	Results for SWB-19 category r on drive 81 No commands blocked (0 of 0 SWB-19 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-19 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-19 <42> 82 Allowed 0000 Off 1 ExtRead		
			-
			No commands blocked (0 of 3)
			ReadSectors
			ReadLong
		<42> 83 Allowed 0000 Off	
			No commands blocked (0 of 3)
	summary: 12	sent, 0 blocked, 12 not block	<u>τ</u> εα
Pogulta:	7	Home and ad Donn't -	Actual Danulta
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-11	0 Commands return fail	0 Commands return fail
	AO-04	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-19 Expe	cted results achieved	
	L DMD TO DADE	CCCG TCDGTCD GCIITCVEG	

Case SWB-20 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-20 Install all drives, configure return code to success, protect with
	<pre>pattern not_mid, execute read commands.</pre>
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message

Case SWB-20 HDT.	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	JRL
Test Date:	Sat Nov 08 12:06:46 2003
Test PC:	Rumpole
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 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
_	Drive 83, 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
	hdl5 S013
	test-hdl SWB-20 Rumpole JRL r F6 64 2B E4 Shutdown Test PC
Log File	**** Monitor Execution ****
Highlights:	Monitor BIOS interrupt 13h (disk service)
niighiiighes.	tally13 compiled on 07/29/03 at 07:33:17
	@(#) Version 1.1 Created 07/29/03 at 07:28:05
	Now (11/08/03 at 12:06:44) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	4 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Locked! Hard-Disk 2 Not Locked!
	Hard-Disk 3 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-20 Rumpole JRL r F6 64 2B E4
	Case: SWB-20
	Command set: Read
	Date: Sat Nov 08 12:06:46 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 Operator: JRL
	Host: Rumpole
	Number of drives 4, Drives: F6 64 2B E4
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-20 <02> 80 Allowed 0000 Off 1 ReadSectors
	1 SWB-20 <0A> 80 Allowed 0000 Off 1 ReadLong
	2 SWB-20 <42> 80 Allowed 0000 Off 1 ExtRead
	Results for SWB-20 category r on drive 80 No commands blocked (0 of 3)
	0 SWB-20 <02> 81 Allowed 0000 Off 1 ReadSectors
	1 SWB-20 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-20 <42> 81 Allowed 0000 Off 1 ExtRead
	Results for SWB-20 category r on drive 81 No commands blocked (0 of 3)
	0 SWB-20 <02> 82 Allowed 0000 Off 1 ReadSectors
	1 SWB-20 <0A> 82 Allowed 0000 Off 1 ReadLong
	2 SWB-20 <42> 82 Allowed 0000 Off 1 ExtRead
	Results for SWB-20 category r on drive 82 No commands blocked (0 of 3)
	0 SWB-20 <02> 83 Allowed 0000 Off 1 ReadSectors
	1 SWB-20 <0A> 83 Allowed 0000 Off 1 ReadLong
	2 SWB-20 <42> 83 Allowed 0000 Off 1 ExtRead
	Results for SWB-20 category r on drive 83 No commands blocked (0 of 3)
	Summary: 12 sent, 0 blocked, 12 not blocked
1	

_			
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-10	0 Commands return success	0 Commands return success
	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

Case SWB-21 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-21 Install all drives, configure return code to failure, protect with
	pattern high, execute information commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	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:	JRL
Test Date:	Mon Sep 29 13:43:18 2003
Test PC:	McMillan
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 64 is a WDC WD64AA with 12594960 sectors
	Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	Sectors
Commands	Drive 84, 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
CACCUCCU.	hd15 234
	test-hdl SWB-21 McMillan JRL i 90 8A 64 1F 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 (09/29/03 at 13:43:11) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock VO.5 971202 (C)GKH 1993,1994,1997
	5 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Not Locked! Hard-Disk 2 Locked!
	Hard-Disk 2 Locked! Hard-Disk 3 Locked!
	Hard-Disk 4 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-21 McMillan JRL i 90 8A 64 1F E4
	Case: SWB-21
	Command set: Information
	Date: Mon Sep 29 13:43:18 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51

```
Case SWB-21 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                        @(#) 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: McMillan
                Number of drives 5, Drives: 90 8A 64 1F E4
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-21 <01> 80 Allowed 0000 Off
                                                      1 GetLastStatus
                                                         1 VerifySectors
                  1 SWB-21 <04> 80 Allowed 0000 Off
                  2 SWB-21 <08> 80 Allowed 0000 Off
                                                       1 ReadDriveParms
                                                        1 TestDriveReady
1 ReadDriveType
                  3 SWB-21 <10> 80 Allowed 0000 Off
                  4 SWB-21 <15> 80 Allowed 0000 Off
                  5 SWB-21 <41> 80 Allowed 0000 Off
                                                        1 CheckForExtensions
                                                       1 VerifySectors
                  6 SWB-21 <44> 80 Allowed 0000 Off
                   7 SWB-21 <48> 80 Allowed 0000 Off
                                                         1 GetDriveParms
                Results for SWB-21 category i on drive 80 No commands blocked (0 of 8)
                  0 SWB-21 <01> 81 Allowed 0000 Off 1 GetLastStatus
                                                        1 VerifySectors1 ReadDriveParms
                  1 SWB-21 <04> 81 Allowed 0000 Off
                  2 SWB-21 <08> 81 Allowed 0000 Off
                                                       1 TestDriveReady
                  3 SWB-21 <10> 81 Allowed 0000 Off
                  4 SWB-21 <15> 81 Allowed 0000 Off
                                                     1 ReadDriveType
                                                         1 CheckForExtensions
                  5 SWB-21 <41> 81 Allowed 0000 Off
                  6 SWB-21 <44> 81 Allowed 0000 Off
                                                        1 VerifySectors
                  7 SWB-21 <48> 81 Allowed 0000 Off
                                                        1 GetDriveParms
                Results for SWB-21 category i on drive 81 No commands blocked (0 of 8)
                  0 SWB-21 <01> 82 Allowed 0000 Off \hspace{1cm} 1 GetLastStatus
                  1 SWB-21 <04> 82 Allowed 0000 Off
                                                        1 VerifySectors
                                                       1 ReadDriveParms
                  2 SWB-21 <08> 82 Allowed 0000 Off
                                                       1 TestDriveRead;
1 ReadDriveType
                  3 SWB-21 <10> 82 Allowed 0000 Off
                                                            TestDriveReady
                  4 SWB-21 <15> 82 Allowed 0000 Off
                                                        1 CheckForExtensions
                  5 SWB-21 <41> 82 Allowed 0000 Off
                                                        1 VerifySectors
1 GetDriveParms
                  6 SWB-21 <44> 82 Allowed 0000 Off
                   7 SWB-21 <48> 82 Allowed 0000 Off
                Results for SWB-21 category i on drive 82 No commands blocked (0 of 8)
                  0 SWB-21 <01> 83 Allowed 0000 Off 1 GetLastStatus
                   1 SWB-21 <04> 83 Allowed 0000 Off
                                                         1 VerifySectors
                                                        1 ReadDriveParms
                  2 SWB-21 <08> 83 Allowed 0000 Off
                                                       1 TestDriveReady
                  3 SWB-21 <10> 83 Allowed 0000 Off
                                                        1 ReadDriveType
                  4 SWB-21 <15> 83 Allowed 0000 Off
                  5 SWB-21 <41> 83 Allowed 0000 Off
                                                         1 CheckForExtensions
                                                        1 VerifySectors
                  6 SWB-21 <44> 83 Allowed 0000 Off
                  7 SWB-21 <48> 83 Allowed 0000 Off
                                                        1 GetDriveParms
                Results for SWB-21 category i on drive 83 No commands blocked (0 of 8)
                  0 SWB-21 <01> 84 Allowed 0000 Off \hspace{1cm} 1 GetLastStatus
                  1 SWB-21 <04> 84 Allowed 0000 Off
                                                        1 VerifySectors
                  2 SWB-21 <08> 84 Allowed 0000 Off
                                                        1 ReadDriveParms
1 TestDriveReady
                  3 SWB-21 <10> 84 Allowed 0000 Off
                                                        1 ReadDriveType
                  4 SWB-21 <15> 84 Allowed 0000 Off
                  5 SWB-21 <41> 84 Allowed 0000 Off
                                                       1 CheckForExtensions
1 VerifySectors
1 GetDriveParms
                  6 SWB-21 <44> 84 Allowed 0000 Off
                  7 SWB-21 <48> 84 Allowed 0000 Off
                Results for SWB-21 category i on drive 84 No commands blocked (0 of 8)
                Summary: 40 sent, 0 blocked, 40 not blocked
Results:
                             Expected Results
                                                           Actual Results
                 Assertion
                 AM-07
                             Tool active message
                                                           Tool active message
                                                           5 drives identified
                 AM-08
                             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
                             Drive 83 is protected
                 AM-09
                                                           Drive 83 is protected
                             Drive 84 is protected
                                                          Drive 84 is protected
                 AM-09
                                                           0 Commands return fail
                 AM-11
                             0 Commands return fail
                 AO-06
                             No cmds to drive 82 blocked No cmds to drive 82 blocked
                             No cmds to drive 83 blocked No cmds to drive 83 blocked
                 AO-06
                 AO-06
                             No cmds to drive 84 blocked No cmds to drive 84 blocked
                 AO-07
                             No cmds to drive 80 blocked No cmds to drive 80 blocked
                 AO-07
                             No cmds to drive 81 blocked No cmds to drive 81 blocked
Analysis:
                SWB-21 Expected results achieved
```

Case SWB-22 HDT.	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-22 Install all drives, configure return code to success, protect with
7	pattern not_first, execute information commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered interface.
	SWB-AM-10. If the tool is configured to return success on blocked
	commands and the tool blocks a command then the return code shall
	indicate successful command execution.
	SWB-AO-06. If a subset of all covered drives is specified for protection,
	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:	JRL
Test Date:	Mon Sep 29 13:53:47 2003
Test PC:	McMillan
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 64 is a WDC WD64AA with 12594960 sectors
	Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
	Drive 84, 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 hdl5 S1234
	test-hdl SWB-22 McMillan JRL i 90 8A 64 1F 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 (09/29/03 at 13:53:40) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997 5 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	Hard-Disk 3 Locked!
	Hard-Disk 4 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-22 McMillan JRL i 90 8A 64 1F E4
	Case: SWB-22
	Command set: Information
	Date: Mon Sep 29 13:53:47 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: McMillan
	Number of drives 5, Drives: 90 8A 64 1F E4 Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-22 <01> 80 Allowed 0000 Off 1 GetLastStatus
	1 SWB-22 <04> 80 Allowed 0000 Off 1 VerifySectors
	2 SWB-22 <08> 80 Allowed 0000 Off 1 ReadDriveParms
	3 SWB-22 <10> 80 Allowed 0000 Off 1 TestDriveReady
	4 SWB-22 <15> 80 Allowed 0000 Off 1 ReadDriveType
	5 SWB-22 <41> 80 Allowed 0000 Off 1 CheckForExtensions
	6 SWB-22 <44> 80 Allowed 0000 Off 1 VerifySectors
	7 SWB-22 <48> 80 Allowed 0000 Off 1 GetDriveParms
	Results for SWB-22 category i on drive 80 No commands blocked (0 of 8)
	0 SWB-22 <01> 81 Allowed 0000 Off 1 GetLastStatus 1 SWB-22 <04> 81 Allowed 0000 Off 1 VerifySectors
	2 SWB-22 <08> 81 Allowed 0000 Off 1 ReadDriveParms

Case SWB-22 HDI	Hard-Disl	k (Int_13) Write Lock V0.5 97	1202 (C)GKH 1993,1994,1997
	3 SWB-22	<10> 81 Allowed 0000 Off	1 TestDriveReady
	4 SWB-22	<15> 81 Allowed 0000 Off	1 ReadDriveType
	5 SWB-22		1 CheckForExtensions
	6 SWB-22	<44> 81 Allowed 0000 Off	1 VerifySectors
	7 SWB-22	<48> 81 Allowed 0000 Off	1 GetDriveParms
			1 No commands blocked (0 of 8)
			1 GetLastStatus
	1 SWB-22	<04> 82 Allowed 0000 Off	1 VerifySectors
	2 SWB-22		1 ReadDriveParms
	3 SWB-22		1 TestDriveReady
			1 ReadDriveType
			1 CheckForExtensions
			1 VerifySectors
			1 GetDriveParms
			2 No commands blocked (0 of 8)
		5 1	1 GetLastStatus
			1 VerifySectors
			1 ReadDriveParms
			1 TestDriveReady
			1 ReadDriveType
			1 CheckForExtensions
			1 VerifySectors
			1 GetDriveParms
			3 No commands blocked (0 of 8)
			1 GetLastStatus
			1 VerifySectors
			1 ReadDriveParms
			1 TestDriveReady
			1 ReadDriveType
			1 CheckForExtensions 1 VerifySectors
			1 GetDriveParms
			4 No commands blocked (0 of 8)
		sent, 0 blocked, 40 not bloc	
	Sullillary. 40	sent, o blocked, 40 not bloc	ked
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 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	0 Commands return success	0 Commands return success
	AO-06	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-06	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AU-00		
	30-06		
	AO-06	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-06	No cmds to drive 84 blocked	No cmds to drive 84 blocked
Analysis:	AO-06 AO-07		

Case SWB-23 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-23 Install all drives, configure return code to failure, protect with
	pattern random_u, execute control commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-11. If the tool is configured to return fail on blocked commands
	and the tool blocks a command then the return code shall indicate
	unsuccessful command execution.
	SWB-AO-05. If a subset of all covered drives is specified for protection,
	then commands from the control category shall not be blocked for
	drives in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.

Case SWB-23 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Tester Name:	JRL
Test Date:	Mon Sep 29 13:57:25 2003
Test PC:	McMillan
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 64 is a WDC WD64AA with 12594960 sectors Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
	Drive 84, 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
	hd15 0234
	test-hdl SWB-23 McMillan JRL c 90 8A 64 1F 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 (09/29/03 at 13:57:18) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	5 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Not Locked!
	Hard-Disk 2 Locked! Hard-Disk 3 Locked!
	Hard-Disk 4 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-23 McMillan JRL c 90 8A 64 1F E4
	Case: SWB-23
	Command set: Control
	Date: Mon Sep 29 13:57:25 2003
	Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
	Host: McMillan
	Number of drives 5, Drives: 90 8A 64 1F E4
	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</oc>
	2 SWB-23 <0D> 80 Allowed 0000 Off 1 AltReset
	3 SWB-23 <11> 80 Allowed 0000 Off 1 Recalibrate
	4 SWB-23 <47> 80 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 80 No commands blocked (0 of 5)
	0 SWB-23 <00> 81 Allowed 0000 Off 1 Reset
	1 SWB-23 <oc> 81 Allowed 0000 Off 1 SeekDrive</oc>
	2 SWB-23 <od> 81 Allowed 0000 Off 1 AltReset</od>
	3 SWB-23 <11> 81 Allowed 0000 Off 1 Recalibrate
	4 SWB-23 <47> 81 Allowed 0000 Off 1 ExtendedSeek
	Results for SWB-23 category c on drive 81 No commands blocked (0 of 5)
	0 SWB-23 <00> 82 Allowed 0000 Off 1 Reset 1 SWB-23 <0C> 82 Allowed 0000 Off 1 SeekDrive
	2 SWB-23 <0C> 82 Allowed 0000 Off 1 AltReset
	3 SWB-23 <11> 82 Allowed 0000 Off 1 Recalibrate
	4 SWB-23 <47> 82 Allowed 0000 Off 1 ExtendedSeek
	Results for SWB-23 category c on drive 82 No commands blocked (0 of 5)
	0 SWB-23 <00> 83 Allowed 0000 Off 1 Reset
	1 SWB-23 <oc> 83 Allowed 0000 Off 1 SeekDrive</oc>
	2 SWB-23 <od> 83 Allowed 0000 Off 1 AltReset</od>
	3 SWB-23 <11> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-23 <47> 83 Allowed 0000 Off 1 ExtendedSeek
	Results for SWB-23 category c on drive 83 No commands blocked (0 of 5)
	0 SWB-23 <00> 84 Allowed 0000 Off 1 Reset
	1 SWB-23 <oc> 84 Allowed 0000 Off 1 SeekDrive</oc>
	2 SWB-23 <0D> 84 Allowed 0000 Off 1 AltReset
	3 SWB-23 <11> 84 Allowed 0000 Off 1 Recalibrate
	4 SWB-23 <47> 84 Allowed 0000 Off 1 ExtendedSeek
	Results for SWB-23 category c on drive 84 No commands blocked (0 of 5)

	Summary: 25	sent, 0 blocked, 25 not block	sed .
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	5 drives identified	5 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-09	Drive 83 is 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-05	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-05	No cmds to drive 82 blocked	No cmds to drive 82 blocked
	AO-05	No cmds to drive 83 blocked	No cmds to drive 83 blocked
	AO-05	No cmds to drive 84 blocked	No cmds to drive 84 blocked
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked

Case SWB-24 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-24 Install all drives, configure return code to success, protect with
	pattern even, execute control commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-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:	JRL
Test Date:	Mon Sep 29 14:04:59 2003
Test PC:	McMillan
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 64 is a WDC WD64AA with 12594960 sectors
	Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
	Drive 84, 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
	hdl5 S024
	test-hdl SWB-24 McMillan JRL c 90 8A 64 1F E4
T = = Til -	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 (09/29/03 at 14:04:52) Going TSR
	NOW (09/29/03 at 14.04.52) GOING ISR ***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	5 Hard-Disks reported by Int_13h
	Hard-Disk 0 Locked!
	Hard-Disk 1 Not Locked!
	Hard-Disk 2 Locked!
	Hard-Disk 3 Not Locked!
	Hard-Disk 4 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-24 McMillan JRL c 90 8A 64 1F E4
	Case: SWB-24

Command set: Control	Case SWB-24 HDL	Hard-Disl	x (Int_13) Write Lock V0.5 971	.202 (C)GKH 1993,1994,1997
Version: e(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 e(#) 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: McMillan Number of drives 5, Drives: 90 8A 64 1F E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SNB-24 <00> 80 Allowed 0000 0ff		Command set	: Control	
### Results for SWB-24 close 22 Allowed 0000 off 1 Recalibrate ### SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 1 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 1 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 2 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 4 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 4 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1		Date: Mon S	ep 29 14:04:59 2003	
### Results for SWB-24 close 22 Allowed 0000 off 1 Recalibrate ### SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 1 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 1 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 2 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 3 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 4 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 4 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 32 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 34 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1 Recalibrate ### 5 SWB-24 close 38 Allowed 0000 off 1		Version: @(#) test-hdl.cpp Version 1.1 Cr	reated 08/23/03 at 10:13:51
Compiled on Aug 31 2003 at 08:10:54		· ·		
Operator: JRL				
Host: McMillan Number of drives 5, Drives: 90 8A 64 IF E4 Case				
Number of drives 5, Drives: 90 8A 64 IF E4		_		
Case				7.A
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2 SWB-24 <01> 80 Allowed 0000 off 1 Recalibrate 4 SWB-24 <17> 80 Allowed 0000 off 1 ExtendedSeek Results for SWB-24 category c on drive 80 No commands blocked (0 of 5) 0 SWB-24 <00> 81 Allowed 0000 off 1 Reset 1 SWB-24 <00> 81 Allowed 0000 off 1 Reset 2 SWB-24 <00> 81 Allowed 0000 off 1 Reset 3 SWB-24 <11> 81 Allowed 0000 off 1 AltReset 3 SWB-24 <11> 81 Allowed 0000 off 1 Recalibrate 4 SWB-24 <17> 81 Allowed 0000 off 1 Recalibrate 4 SWB-24 <17> 81 Allowed 0000 off 1 Recalibrate 7 SWB-24 <00> 82 Allowed 0000 off 1 Recalibrate 8 Results for SWB-24 category c on drive 81 No commands blocked (0 of 5) 0 SWB-24 <00> 82 Allowed 0000 off 1 Reset 1 SWB-24 <00> 82 Allowed 0000 off 1 Recalibrate 1 SWB-24 <00> 82 Allowed 0000 off 1 Reset 1 SWB-24 <18 2 Allowed 0000 off 1 Recalibrate 4 SWB-24 <47> 82 Allowed 0000 off 1 Recalibrate 8 SWB-24 <11> 82 Allowed 0000 off 1 Recalibrate 1 SWB-24 <00> 83 Allowed 0000 off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 off 1 Reset 2 SWB-24 <00> 83 Allowed 0000 off 1 Reset 3 SWB-24 <11> 83 Allowed 0000 off 1 Reset 4 SWB-24 <17> 83 Allowed 0000 off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 off 1 Recalibrate 4 SWB-24 <18 83 Allowed 0000 off 1 Recalibrate 4 SWB-24 <18 83 Allowed 0000 off 1 Recalibrate 4 SWB-24 <18 83 Allowed 0000 off 1 Recalibrate 4 SWB-24 <18 83 Allowed 0000 off 1 Recalibrate 8 Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 SeekDrive 2 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 off 1 Reset 1 SWB-24 <00< 84 Allowed 0000 off 1 Reset 1 SWB-24 <00< 84 Allowed 0000 off 1 Reset 1 SWB-24 <00< 8				
3 SWB-24 <11> 80 Allowed 0000 Off 1				
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## ASWB-24 <47> 81 Allowed 0000 Off 1				
Results for SWB-24 category c on drive 81 No commands blocked (0 of 5)				
0 SWB-24 <00> 82 Allowed 0000 Off				
1 SWB-24 <oc> 82 Allowed 0000 Off</oc>				
3 SWB-24 <47> 82 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 82 No commands blocked (0 of 5) 0 SWB-24 <00> 83 Allowed 0000 Off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 83 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 83 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 84 Allowed 0000 Off 1 SeekDrive 3 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <11> 84 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 84 No commands blocked (0 of 5) Summary: 25 sent, 0 blocked, 25 not blocked Results: AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 85 is protected AM-09 Drive 86 is Dlocked No cmds to drive 86 blocked AO-05 No cmds to drive 86 blocked No cmds to drive 88 blocked AO-05 No cmds to drive 81 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		1 SWB-24	<pre><nc> 82 Allowed 0000 Off 1</nc></pre>	l SeekDrive
3 SWB-24 <47> 82 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 82 No commands blocked (0 of 5) 0 SWB-24 <00> 83 Allowed 0000 Off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 83 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 83 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 84 Allowed 0000 Off 1 SeekDrive 3 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <11> 84 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 84 No commands blocked (0 of 5) Summary: 25 sent, 0 blocked, 25 not blocked Results: AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 85 is protected AM-09 Drive 86 is Dlocked No cmds to drive 86 blocked AO-05 No cmds to drive 86 blocked No cmds to drive 88 blocked AO-05 No cmds to drive 81 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		2 SWB-24	<0D> 82 Allowed 0000 Off	l AltReset
Results for SWB-24 category c on drive 82 No commands blocked (0 of 5) 0 SWB-24 <00> 83 Allowed 0000 Off 1 Reset 1 SWB-24 <00> 83 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 83 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 83 Allowed 0000 Off 1 Reset 4 SWB-24 <11> 83 Allowed 0000 Off 1 Reset 4 SWB-24 <11> 83 Allowed 0000 Off 1 Reset 8 Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 Off 1 Reset 2 SWB-24 <00> 84 Allowed 0000 Off 1 Reset 3 SWB-24 <10> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 84 Allowed 0000 Off 1 Recalibrate ASWB-24 <10> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 5 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 5 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 6 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 6 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 7 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 8 SwB-24 <10> 85 Allowed 0000 Off 1 Recalibrate 9 SwB-24 <10 SwB-24 <10 SwB-24 <10 SwB-24 *10 SwB-24 *10 SwB-24 *10 SwB-24 *10 SwB-24		3 SWB-24	<11> 82 Allowed 0000 Off	
0 SWB-24 <00> 83 Allowed 0000 Off		4 SWB-24		
1 SWB-24 <oc> 83 Allowed 0000 Off</oc>		Results for	SWB-24 category c on drive 82	No commands blocked (0 of 5)
2 SWB-24 <0D> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <4T> 83 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <4T> 83 Allowed 0000 Off 1 Recalibrate 8 SWB-24 <10> 84 Allowed 0000 Off 1 Reset 1 SWB-24 <0D> 84 Allowed 0000 Off 1 Reset 1 SWB-24 <0D> 84 Allowed 0000 Off 1 Reset 2 SWB-24 <0D> 84 Allowed 0000 Off 1 Reset 3 SWB-24 <1D> 84 Allowed 0000 Off 1 Reset 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <1D> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 category c on drive 84 No commands blocked (0 of 5) Summary: 25 sent, 0 blocked, 25 not blocked Results AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 81 is unprotected AM-09 Drive 83 is unprotected Drive 81 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-00 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 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 81 blocked No cmds to drive 81 blocked		0 SWB-24	<00> 83 Allowed 0000 Off 1	L Reset
ASSERTION Expected Results ASSERTION Expected Results AMB-09 Drive 81 is unprotected AM-09 Drive 81 is unprotected AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected AM-09 Drive 85 is protected AM-09 Drive 86 is protected AM-09 Drive 87 is unprotected AM-09 Drive 88 is protected AM-10 0 Commands return success AO-05 No cmds to drive 80 blocked AO-05 No cmds to drive 81 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked		1 SWB-24	<0C> 83 Allowed 0000 Off 1	L SeekDrive
Results: Assertion Expected Results Am-07 Tool active message Am-09 Drive 80 is protected Am-09 Drive 80 is protected Am-09 Drive 81 is unprotected Am-09 Drive 81 is unprotected Am-09 Drive 83 is unprotected Am-09 Drive 84 is protected Am-09 Drive 85 is protected Am-09 Drive 86 is protected Am-09 Drive 87 is protected Am-09 Drive 88 is protected Am-09 Drive 89 Drive		2 SWB-24	<0D> 83 Allowed 0000 Off 1	l AltReset
Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) 0 SWB-24 <00> 84 Allowed 0000 Off 1 Reset 1 SWB-24 <00> 84 Allowed 0000 Off 1 SeekDrive 2 SWB-24 <00> 84 Allowed 0000 Off 1 AltReset 3 SWB-24 <11> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 84 Allowed 0000 Off 1 Recalibrate 4 SWB-24 <47> 84 Allowed 0000 Off 1 ExtendedSeek Results for SWB-24 category c on drive 84 No commands blocked (0 of 5) Summary: 25 sent, 0 blocked, 25 not blocked Results: Assertion Expected Results Actual Results AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 83 is unprotected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 83 blocked AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		3 SWB-24	<11> 83 Allowed 0000 Off	l Recalibrate
Results: Assertion Expected Results Actual Results AM-07 Tool active message Tool active message AM-08 5 drives identified AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 85 is protected Drive 85 is protected AM-09 Drive 86 is protected Drive 87 is unprotected AM-09 Drive 88 is unprotected Drive 88 is protected AM-09 Drive 88 is protected Drive 89 is protected AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 82 is protected AM-09 Drive 84 is protected Drive 85 is protected AM-09 Drive 86 is protected Drive 87 is unprotected AM-09 Drive 88 is unprotected Drive 88 is protected AM-09 Drive 88 is protected Drive 88 is protected AM-09 Drive 84 is protected Drive 88 is protected AM-09 Drive 84 is protected Drive 88 is protected AM-09 Drive 84 is protected Drive 88 is protected Drive 88 blocked AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 81 blocked No cmds to drive 82 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		4 SWB-24	<47> 83 Allowed 0000 Off	L ExtendedSeek
Results: Assertion Expected Results Actual Results AM-07 Tool active message Tool active message AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-09 Drive 85 is protected AM-09 Drive 80 is protected AM-00 Drive 80 is protected		Results for	SWB-24 category c on drive 83	No commands blocked (0 of 5)
Results: Assertion Expected Results Actual Results Am-07 Tool active message Tool active message Am-08 5 drives identified Am-09 Drive 80 is protected Am-09 Drive 81 is unprotected Drive 81 is unprotected Am-09 Drive 82 is protected Drive 82 is protected Am-09 Drive 83 is unprotected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 85 is protected Am-09 Drive 86 is protected Drive 87 is unprotected Am-09 Drive 88 is unprotected Drive 88 is unprotected Am-09 Drive 89 is protected Drive 80 is protected Am-09 Drive 80 is protected Drive 80 is protected Drive 80 is protected Drive 80 is protected Am-09 Drive 80 Drive 80 is protected Drive				
Results: Assertion Expected Results Actual Results Am-07 Tool active message Tool active message Am-08 5 drives identified Am-09 Drive 80 is protected Am-09 Drive 81 is unprotected Drive 81 is unprotected Am-09 Drive 82 is protected Drive 82 is protected Am-09 Drive 83 is unprotected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 83 is unprotected Am-09 Drive 84 is protected Drive 85 is protected Am-09 Drive 86 is protected Drive 87 is unprotected Am-09 Drive 88 is unprotected Drive 88 is unprotected Am-09 Drive 89 is protected Drive 80 is protected Am-09 Drive 80 is protected Drive 80 is protected Drive 80 is protected Drive 80 is protected Am-09 Drive 80 Drive 80 is protected Drive		1 SWB-24	<0C> 84 Allowed 0000 Off	L SeekDrive
Results: Assertion Expected Results Am-07 Tool active message Am-08 5 drives identified Am-09 Drive 80 is protected Am-09 Drive 81 is unprotected Am-09 Drive 81 is unprotected Am-09 Drive 82 is protected Drive 82 is protected Am-09 Drive 83 is unprotected Am-09 Drive 83 is unprotected Am-09 Drive 84 is protected Am-09 Drive 85 is protected Am-09 Drive 86 is protected Am-09 Drive 87 is protected Am-09 Drive 88 is protected Am-09 Drive 88 is protected Am-09 Drive 80 is protected Am-09 Drive 81 is unprotected Am-09 Drive 82 is protected Am-09 Drive 83 is unprotected Am-09 Drive 84 is protected Am-09 Drive 85 is protected Am-09 Drive 86 is protected Am-09 Drive 87 is protected Am-09 Drive 88 is protected Am-09 Drive 88 is protected Am-09 Drive 88 is protected Am-00 O Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		2 SWB-24	<0D> 84 Allowed 0000 Off	l AltReset
Results for SWB-24 category c on drive 84 No commands blocked (0 of 5) Summary: 25 sent, 0 blocked, 25 not blocked Results: Assertion Expected Results Actual Results AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		3 SWB-24	<11> 84 Allowed 0000 Off	l Recalibrate
Results: Assertion Expected Results AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-00 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		4 SWB-24	<47> 84 Allowed 0000 Off	ExtendedSeek
Results: Assertion Expected Results AM-07 Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected Drive 82 is protected Drive 83 is unprotected Drive 83 is unprotected Drive 84 is protected Drive 85 is unprotected Drive 86 is unprotected Drive 86 is unprotected Drive 87 is unprotected Drive 88 is unprotected Dri		Results for	SWB-24 category c on drive 84	No commands blocked (0 of 5)
AM-07 Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-10 0 Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		Summary: 25	sent, 0 blocked, 25 not block	red
AM-07 Tool active message Tool active message AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-10 0 Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked				
AM-08 5 drives identified 5 drives identified AM-09 Drive 80 is protected Drive 80 is protected AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-09 Drive 84 is protected Drive 84 is protected AM-10 0 Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked	Results:	Assertion	Expected Results	Actual Results
AM-09 Drive 80 is protected AM-09 Drive 81 is unprotected AM-09 Drive 82 is protected AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-10 O Commands return success AO-05 No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked AO-05 No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-07	Tool active message	Tool active message
AM-09 Drive 81 is unprotected Drive 81 is unprotected AM-09 Drive 82 is protected Drive 82 is protected AM-09 Drive 83 is unprotected Drive 83 is unprotected AM-09 Drive 84 is protected Drive 84 is protected AM-10 O Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-08	5 drives identified	5 drives identified
AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-10 Drive 84 is protected NO commands return success AO-05 No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked AO-05 No cmds to drive 82 blocked AO-07 No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked		AM-09	Drive 80 is protected	Drive 80 is protected
AM-09 Drive 82 is protected AM-09 Drive 83 is unprotected AM-09 Drive 84 is protected AM-09 Drive 84 is protected AM-10 Drive 84 is protected NO commands return success AO-05 No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked AO-05 No cmds to drive 82 blocked AO-07 No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked AO-07 No cmds to drive 83 blocked		AM-09	Drive 81 is unprotected	Drive 81 is unprotected
AM-09 Drive 84 is protected AM-10 0 Commands return success 0 Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-09		
AM-09 Drive 84 is protected AM-10 0 Commands return success 0 Commands return success AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-09	Drive 83 is unprotected	Drive 83 is unprotected
AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-09	Drive 84 is protected	
AO-05 No cmds to drive 80 blocked No cmds to drive 80 blocked AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked		AM-10	0 Commands return success	0 Commands return success
AO-05 No cmds to drive 82 blocked No cmds to drive 82 blocked AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked				
AO-05 No cmds to drive 84 blocked No cmds to drive 84 blocked AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked				
AO-07 No cmds to drive 81 blocked No cmds to drive 81 blocked AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked				
AO-07 No cmds to drive 83 blocked No cmds to drive 83 blocked				
I DND 21 DAPOCCOU TODATOD WONTEVED	Analysis:			
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Case SWB-25 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997	
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	

Case SWB-25 HDL	Hard-Dis	x (Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997	
		essful command execution.		
	then co	mmands from the write category	ves is specified for protection, shall be blocked for drives in	
		ected subset.		
			ves is specified for protection, all be blocked for drives not in	
		ected subset.	all be blocked for drives not in	
Tester Name:	Blive			
Test Date:	_	13:19:15 2003		
Test PC: Test Software:	McMillan SWBT 1.0			
Hard Drives		abel 90 is a WDC WD300BB-00CAA0) with 58633344 sectors	
Used:		abel 1F is a Quantum ATLAS10K3_		
	sectors	abada na a companyon any a colored	TY 000 T - 1 th 1702000 T - 1 th	
Commands		abel E4 is a QUANTUM ATLAS10K2- C to (DOS 7.1) Windows 98 [Vers		
executed:	tally13	e co (Bob 7.1) Williams 30 [Vell	1.10.2222	
	hd15 0			
	test-hdl SWI Shutdown Te	B-25 McMillan Blive w 90 1F E4		
Log File		or Execution ****		
Highlights:	Monitor BIO	S interrupt 13h (disk service)		
	_	mpiled on 07/29/03 at 07:33:17	0.0E	
		n 1.1 Created $07/29/03$ at $07:28$		
	**** Insta	ll HDL Log ****		
		-Disk (Int_13) Write Lock V0.5	971202 (C)GKH 1993,1994,1997	
		rd-Disks reported by Int_13h -Disk 0 Locked!		
		-Disk 1 Not Locked!		
		Hard-Disk 2 Not Locked!		
	H-D Write Lock successfully installed. ***** Test Harness Log *****			
		г-HDL.EXE SWB-25 McMillan Blive	e w 90 1F E4	
	Case: SWB-2			
	Command set	: Write ep 29 13:19:15 2003		
	Date: Moli B	29 29 13 13 13 2003		
	· ·	#) test-hdl.cpp Version 1.1 Cre		
		wb-defs.h Version 1.2 Created siled on Aug 31 2003 at 08:10:5		
	Operator: B	5	-	
	Host: McMil			
		rives 3, Drives: 90 1F E4 Cmd Drv Action Stat Cry Count	Cmd Name	
			WriteSectors	
			WriteLong	
		<43> 80 Blocked 0300 On 0 SWB-25 category w on drive 80	ExtWrite	
		5 1	WriteSectors	
			WriteLong	
			ExtWrite	
		SWB-25 category w on drive 81 <03> 82 Allowed 0000 Off 1	WriteSectors	
	1 SWB-25	<pre><0B> 82 Allowed 0000 Off 1</pre>	WriteLong	
			ExtWrite No commands blocked (0 of 3)	
		SWB-25 category w on drive 82 sent, 3 blocked, 6 not blocked		
Dogulta:	7	Description of Description	Parkeral Barrella	
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 AM-11	Drive 82 is unprotected 3 Commands return fail	Drive 82 is unprotected 3 Commands return fail	
	AO-01	All cmds to drive 80 blocked	All cmds to drive 80 blocked	
	AO-07	No cmds to drive 81 blocked	No cmds to drive 81 blocked	
7 m = 1 - m + m +	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked	
Analysis:	SWB-25 Expe	cted results achieved		

	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-26 Install three drives, configure return code to success, protect
	with pattern UPU, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.
lested.	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:	Blive
Test Date:	Mon Sep 29 13:23:57 2003
Test PC:	McMillan
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors
Used:	Drive 81, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	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
executed.	hdl5 S1
	test-hdl SWB-26 McMillan Blive w 90 1F 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 (09/29/03 at 13:23:50) Going TSR
	***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Not Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-26 McMillan Blive w 90 1F E4
	Case: SWB-26 Command set: Write
	Date: Mon Sep 29 13:23:57 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: Blive
	Host: McMillan
	Number of drives 3, Drives: 90 1F E4
	Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-26 <03> 80 Allowed 0000 Off 1 WriteSectors
	1 SWB-26 <08> 80 Allowed 0000 Off 1 WriteLong
	2 SWB-26 <43> 80 Allowed 0000 Off 1 ExtWrite
	Results for SWB-26 category w on drive 80 No commands blocked (0 of 3)
	0 SWB-26 <03> 81 Blocked 0000 Off 0 WriteSectors
	1 SWB-26 <0B> 81 Blocked 0000 Off 0 WriteLong
	2 SWB-26 <43> 81 Blocked 0000 Off
	Results for SWB-26 category w on drive 81 All commands blocked (3 of 3)
	0 SWB-26 <03> 82 Allowed 0000 Off 1 WriteSectors
	1 SWB-26 <0B> 82 Allowed 0000 Off 1 WriteLong 2 SWB-26 <43> 82 Allowed 0000 Off 1 ExtWrite
	Results for SWB-26 category w on drive 82 No commands blocked (0 of 3)
	Summary: 9 sent, 3 blocked, 6 not blocked

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	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 Expe	cted results achieved	·

Case SWB-27 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	Blive
Test Date:	Mon Sep 29 13:30:38 2003
Test PC:	McMillan
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors
Used:	Drive 81, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	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
	hdl5 2
	test-hdl SWB-27 McMillan Blive w 90 1F 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 (09/29/03 at 13:30:32) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Not Locked!
	Hard-Disk 2 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-27 McMillan Blive w 90 1F E4
	Case: SWB-27
	Command set: Write
	Date: Mon Sep 29 13:30:38 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: Blive
	Host: McMillan
	Number of drives 3, Drives: 90 1F E4
	Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-27 <03> 80 Allowed 0000 Off 1 WriteSectors

	Hard-Disk	k (Int_13) Write Lock V0.5 9712	202 (C)GKH 1993,1994,1997
	1 SWB-27	<0B> 80 Allowed 0000 Off 1	WriteLong
	2 SWB-27	<43> 80 Allowed 0000 Off 1	ExtWrite
		SWB-27 category w on drive 80	
	0 SWB-27	<03> 81 Allowed 0000 Off 1	WriteSectors
	1 SWB-27	<ob> 81 Allowed 0000 Off 1</ob>	WriteLong
		<43> 81 Allowed 0000 Off 1	
	Results for	SWB-27 category w on drive 81	No commands blocked (0 of 3)
	0 SWB-27	<03> 82 Blocked 0300 On 0	WriteSectors
	1 SWB-27	<0B> 82 Blocked 0300 On 0	WriteLong
	2 SWB-27	<43> 82 Blocked 0300 On 0	ExtWrite
	Results for	SWB-27 category w on drive 82	All commands blocked (3 of 3)
	Summary: 9	sent, 3 blocked, 6 not blocked	
_			
Results:	Assertion	Expected Results	Actual Results
Results:	Assertion AM-07	Expected Results Tool active message	Actual Results Tool active message
Results:		-	
Results:	AM-07	Tool active message	Tool active message
Results:	AM-07 AM-08	Tool active message 3 drives identified	Tool active message 3 drives identified
Results:	AM-07 AM-08 AM-09	Tool active message 3 drives identified Drive 80 is unprotected	Tool active message 3 drives identified Drive 80 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-11	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected 3 Commands return fail	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected 3 Commands return fail
Results:	AM-07 AM-08 AM-09 AM-09 AM-09 AM-11 AO-01	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected 3 Commands return fail All cmds to drive 82 blocked	Tool active message 3 drives identified Drive 80 is unprotected Drive 81 is unprotected Drive 82 is protected 3 Commands return fail All cmds to drive 82 blocked

Cage GWB-28 UDI	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-28 Install three drives, configure return code to success, protect
case summary.	with pattern UPP, execute write commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
rested.	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:	Blive
Test Date:	Mon Sep 29 13:33:21 2003
Test PC:	McMillan
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors
Used:	Drive 81, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
G 1	Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13
executed.	hdl5 S12
	test-hdl SWB-28 McMillan Blive w 90 1F 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 (09/29/03 at 13:33:15) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****

Case SWB-28 HDL	Hard-Disk	(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997
	CMD: A:\TEST	T-HDL.EXE SWB-28 McMillan Blive	e w 90 1F E4
	Case: SWB-28	8	
	Command set	: Write	
	Date: Mon Se	ep 29 13:33:21 2003	
	, ,	#) test-hdl.cpp Version 1.1 Cre	
		wb-defs.h Version 1.2 Created	
	Comp	4	
	Operator: B	live	
	Host: McMil		
		rives 3, Drives: 90 1F E4	
		Cmd Drv Action Stat Cry Count	
		<03> 80 Allowed 0000 Off 1	
		<pre><0B> 80 Allowed 0000 Off 1</pre>	
		<43> 80 Allowed 0000 Off 1	
		SWB-28 category w on drive 80	, ,
			WriteSectors
	1 SWB-28 ·	<0B> 81 Blocked 0000 Off 0	WriteLong
	2 SWB-28 ·	<43> 81 Blocked 0000 Off 0	ExtWrite
		SWB-28 category w on drive 81	
	0 SWB-28 <03> 82 Blocked 0000 Off 0 WriteSectors		
	1 SWB-28 <0B> 82 Blocked 0000 Off 0 WriteLong 2 SWB-28 <43> 82 Blocked 0000 Off 0 ExtWrite Results for SWB-28 category w on drive 82 All commands blocked		
			All commands blocked (3 of 3)
	Summary: 9	sent, 6 blocked, 3 not blocked	
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is protected	Drive 82 is protected
	AM-10	6 Commands return success	6 Commands return success
	AO-01	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-01	All cmds to drive 82 blocked	All cmds to drive 82 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
Analysis:	SWB-28 Exped	cted results achieved	

Case SWB-29 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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:	Blive		
Test Date:	Mon Sep 29 13:36:25 2003		
Test PC:	McMillan		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors		
Used:	Drive 81, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548		
	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		
	hd15 02		
	test-hdl SWB-29 McMillan Blive w 90 1F E4		
	Shutdown Test PC		

Case SWB-29 HDL	Hard-Disk	(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997	
Log File	**** Monite	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 07:28		
	, , ,	03 at 13:36:18) Going TS	SR	
		***** Install HDL Log ***** HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
		rd-Disks reported by Int_13h	9/1202 (C)GKH 1993,1994,199/	
		-Disk 0 Locked!		
		-Disk 1 Not Locked!		
		-Disk 2 Locked!		
		Write Lock successfully install	Led.	
		Harness Log ****		
	CMD: A:\TES	Γ-HDL.EXE SWB-29 McMillan Blive	e w 90 1F E4	
	Case: SWB-2	9		
	Command set	: Write		
	Date: Mon Se	ep 29 13:36:25 2003		
	Vergion: @/	#) togt hdl app Worgion 1 1 Cre	22+2d 00/22/02 a+ 10:12:E1	
		test-hdl.cpp Version 1.1 Cre wb-defs.h Version 1.2 Created		
	,	viled on Aug 31 2003 at 08:10:5		
	Operator: B	-	•	
	Host: McMil			
		rives 3, Drives: 90 1F E4		
		Case Cmd Drv Action Stat Cry Count Cmd Name		
	0 SWB-29 <03> 80 Blocked 0300 On 0 WriteSectors 1 SWB-29 <0B> 80 Blocked 0300 On 0 WriteLong			
		2 SWB-29 <43> 80 Blocked 0300 On 0 ExtWrite Results for SWB-29 category w on drive 80 All commands blocked (3 of 3)		
	0 SWB-29 <03> 81 Allowed 0000 Off 1 WriteSectors			
	1 SWB-29 <0B> 81 Allowed 0000 Off 1 WriteLong 2 SWB-29 <43> 81 Allowed 0000 Off 1 ExtWrite Results for SWB-29 category w on drive 81 No commands blocked (0 of 3) 0 SWB-29 <03> 82 Blocked 0300 On 0 WriteSectors 1 SWB-29 <0B> 82 Blocked 0300 On 0 WriteLong			
	2 SWB-29 <43> 82 Blocked 0300 On 0 ExtWrite Results for SWB-29 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked			
			TITE COMMUNICIONE DIOCNECA (5 OI 5)	
_				
Results:	Assertion	Expected Results	Actual Results	
	AM-07	Tool active message	Tool active message	
	AM-08	3 drives identified	3 drives identified	
	AM-09 AM-09	Drive 80 is protected	Drive 80 is protected	
	AM-09 AM-09	Drive 81 is unprotected	Drive 81 is unprotected	
	AM-09 AM-11	Drive 82 is protected 6 Commands return fail	Drive 82 is protected 6 Commands return fail	
	AO-01	All cmds to drive 80 blocked All cmds to drive 82 blocked	All cmds to drive 80 blocked All cmds to drive 82 blocked	
	AO-01			
Analygig:	AO-07	No cmds to drive 81 blocked cted results achieved	No cmds to drive 81 blocked	
Analysis:	PMP-7A FXDe	sted results achieved		

Case SWB-30 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
Case summary:	SWB-30 Install three drives, configure return code to success, protect		
	with pattern PPU, execute write commands.		
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	indicating that the tool is active.		
	SWB-AM-08. If the tool is executed then the tool shall issue a message		
	indicating all drives accessible by the covered interfaces.		
	SWB-AM-09. If the tool is executed then the tool shall issue a message		
	indicating the protection status of each drive attached to a covered		
	interface.		
	SWB-AM-10. If the tool is configured to return success on blocked		
	commands and the tool blocks a command then the return code shall		
	indicate successful command execution.		
	SWB-AO-01. If a subset of all covered drives is specified for protection,		
	then commands from the write category shall be blocked for drives in		
	the selected subset.		
	SWB-AO-07. If a subset of all covered drives is specified for protection,		
	then no commands from any category shall be blocked for drives not in		
	the selected subset.		

Case SWB-30 HDL	Hard-Dis	(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997	
Tester Name:	SN			
Test Date:	Mon Sep 29 15:16:10 2003			
Test PC:	HecRamsey			
Test Software:	SWBT 1.0			
Hard Drives	Drive 80, 1	abel 8A is a WDC WD200EB-00CSF) with 39102336 sectors	
Used:	Drive 81, 1	abel 64 is a WDC WD64AA with 13	2594960 sectors	
	Drive 82, 1	abel 2B is a Quantum QM39100TD-	-SCA Drive with 17783249 sectors	
Commands	Boot Test P	C to (DOS 7.1) Windows 98 [Vers	sion 4.10.2222]	
executed:	tally13			
	hd15 S01			
	test-hdl SW	B-30 HecRamsey SN w 8A 64 2B		
	Shutdown Te	st PC		
Log File	**** Monit	or Execution ****		
Highlights:	Monitor BIO	S interrupt 13h (disk service)		
	tally13 co	mpiled on 07/29/03 at 07:33:17		
	@(#) Versio	n 1.1 Created 07/29/03 at 07:28	3:05	
	Now (09/29/	03 at 15:16:04) Going T	SR	
	***** Insta	ll HDL Log *****		
	HDL Hard	-Disk (Int_13) Write Lock V0.5	971202 (C)GKH 1993,1994,1997	
		rd-Disks reported by Int_13h		
		-Disk 0 Locked!		
		-Disk 1 Locked!		
		-Disk 2 Not Locked!		
		Write Lock successfully instal:	led.	
		Harness Log ****		
		T-HDL.EXE SWB-30 HecRamsey SN v	w 8A 64 2B	
	Case: SWB-3	-		
	Command set			
	Date: Mon S	ep 29 15:16:10 2003		
		III) to be half one West and 1 1 Co.		
	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 3, Drives: 8A 64 2B			
		Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-30 <03> 80 Blocked 0000 Off 0 WriteSectors		
			WriteLong	
		<43> 80 Blocked 0000 Off 0	ExtWrite	
	Results for SWB-30 category w on drive 80 All commands blocked (3 of 3)			
			WriteSectors	
			WriteLong	
			ExtWrite	
		SWB-30 category w on drive 81		
	0 SWB-30	<03> 82 Allowed 0000 Off 1	WriteSectors	
	1 SWB-30	<pre><0B> 82 Allowed 0000 Off 1</pre>	WriteLong	
	2 SWB-30	<43> 82 Allowed 0000 Off 1	ExtWrite	
	Results for	SWB-30 category w on drive 82	No commands blocked (0 of 3)	
	Summary: 9	sent, 6 blocked, 3 not blocked		
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:		cted results achieved		
111011010.	SUD SO BYDE	occa repared actificate		

Case SWB-31 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
Case summary:	SWB-31 Install three drives, configure return code to failure, protect		
	with pattern PUU, execute read commands.		
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	indicating that the tool is active.		
	SWB-AM-08. If the tool is executed then the tool shall issue a message		
	indicating all drives accessible by the covered interfaces.		

Case SWB-31 HDT.	Hard-Disk (Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997	
	SWB-AM-09. If the tool is executed then		
	indicating the protection status of interface.	_	
	SWB-AM-11. If the tool is configured to and the tool blocks a command then t		
	unsuccessful command execution.		
	SWB-AO-04. If a subset of all covered dr then commands from the read category		
	in the selected subset. SWB-AO-07. If a subset of all covered dr.	ives is specified for protestion	
	then no commands from any category s		
Tester Name:	SN che selected subset.		
Test Date:	Mon Sep 29 15:12:19 2003		
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CS	F0 with 39102336 sectors	
Used:	Drive 81, label 64 is a WDC WD64AA with		
	Drive 82, label 2B is a Quantum QM39100T		
Commands executed:	Boot Test PC to (DOS 7.1) Windows 98 [Ve: tally13	rsion 4.10.2222]	
cvecarea.	hdl5 0		
	test-hdl SWB-31 HecRamsey SN r 8A 64 2B		
	Shutdown Test PC		
Log File	***** Monitor Execution ****		
Highlights:	Monitor BIOS interrupt 13h (disk service	,	
	tally13 compiled on 07/29/03 at 07:33:1' @(#) Version 1.1 Created 07/29/03 at 07:		
	@(#) version i.1 created $07/29/03$ at $07:$		
	***** Install HDL Log *****		
	HDL Hard-Disk (Int_13) Write Lock V0.	5 971202 (C)GKH 1993,1994,1997	
	3 Hard-Disks reported by Int_13h		
	Hard-Disk 0 Locked!		
	Hard-Disk 1 Not Locked!		
	Hard-Disk 2 Not Locked! H-D Write Lock successfully installed.		
	H-D Write Lock successfully installed. ***** Test Harness Log *****		
	CMD: A:\TEST-HDL.EXE SWB-31 HecRamsey SN r 8A 64 2B		
	Case: SWB-31		
	Command set: Read		
	Date: Mon Sep 29 15:12:19 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: HecRamsey		
	Number of drives 3, Drives: 8A 64 2B Case Cmd Drv Action Stat Cry Coun	t Cmd Name	
	_ =	l CMd Name 1 ReadSectors	
		1 ReadLong	
	2 SWB-31 <42> 80 Allowed 0000 Off	1 ExtRead	
	Results for SWB-31 category r on drive 8		
		1 ReadSectors	
		1 ReadLong 1 ExtRead	
	Results for SWB-31 category r on drive 8		
		1 ReadSectors	
		l ReadLong	
		1 ExtRead	
	Results for SWB-31 category r on drive 8		
	Summary: 9 sent, 0 blocked, 9 not blocked	<u>a</u>	
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	

Case SWB-31 HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997			
	AO-04	No cmds to drive 80 blocked No cmds to drive 80 blocked	
	AO-07	No cmds to drive 81 blocked No cmds to drive 81 blocked	
	AO-07	No cmds to drive 82 blocked No cmds to drive 82 blocked	
Analysis:	SWB-31 Expected results achieved		

Case SWB-32 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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:	Mon Sep 29 15:09:22 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
Used:	Drive 81, label 64 is a WDC WD64AA with 12594960 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
	hdl5 S1
	test-hdl SWB-32 HecRamsey SN r 8A 64 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 (09/29/03 at 15:09:16) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Not Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-32 HecRamsey SN r 8A 64 2B Case: SWB-32
	Case: SWB-32 Command set: Read
	Date: Mon Sep 29 15:09:22 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 3, Drives: 8A 64 2B Case Cmd Drv Action Stat Cry Count Cmd Name
	0 SWB-32 <02> 80 Allowed 0000 Off 1 ReadSectors
	1 SWB-32 <0A> 80 Allowed 0000 Off 1 ReadLong
	2 SWB-32 <42> 80 Allowed 0000 Off 1 ExtRead
	Results for SWB-32 category r on drive 80 No commands blocked (0 of 3)
	0 SWB-32 <02> 81 Allowed 0000 Off 1 ReadSectors
	1 SWB-32 <oa> 81 Allowed 0000 Off 1 ReadLong</oa>
	2 SWB-32 <42> 81 Allowed 0000 Off 1 ExtRead
	Results for SWB-32 category r on drive 81 No commands blocked (0 of 3)
	0 SWB-32 <02> 82 Allowed 0000 Off 1 ReadSectors
	1 SWB-32 <0A> 82 Allowed 0000 Off 1 ReadLong

Case SWB-32 HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997			
	2 SWB-32 <42> 82 Allowed 0000 Off 1 ExtRead Results for SWB-32 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-10	0 Commands return success	0 Commands return success
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-32 Expected results achieved		

Cace GMB-33 HDI	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-33 Install three drives, configure return code to failure, protect
	with pattern UUP, execute read commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-11. If the tool is configured to return fail on blocked commands
	and the tool blocks a command then the return code shall indicate
	unsuccessful command execution.
	SWB-AO-04. If a subset of all covered drives is specified for protection,
	then commands from the read category shall not be blocked for drives
	in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.
Tester Name:	SN
Test Date:	Mon Sep 29 15:06:20 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
Used:	Drive 81, label 64 is a WDC WD5045AA with 12594960 sectors
usea.	
G	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
	hdl5 2
	test-hdl SWB-33 HecRamsey SN r 8A 64 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 (09/29/03 at 15:06:13) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Not Locked!
	Hard-Disk 2 Locked!
	H-D Write Lock successfully installed.
	***** Test Harness Log *****
	CMD: A:\TEST-HDL.EXE SWB-33 HecRamsey SN r 8A 64 2B
	Case: SWB-33
	Command set: Read
	Date: Mon Sep 29 15:06:20 2003
	Manufact 0(#) took hdl com Manufact 1 1 000000 00 00 00 10010000
	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

Case SWB-33 HDL	33 HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
	Number of drives 3, Drives: 8A 64 2B		
	Case	Cmd Drv Action Stat Cry Count	t Cmd Name
		<02> 80 Allowed 0000 Off	
	1 SWB-33	<0A> 80 Allowed 0000 Off	l ReadLong
	2 SWB-33	<42> 80 Allowed 0000 Off	l ExtRead
	Results for	SWB-33 category r on drive 80	No commands blocked (0 of 3)
	0 SWB-33	<02> 81 Allowed 0000 Off	l ReadSectors
	1 SWB-33	<0A> 81 Allowed 0000 Off	l ReadLong
	2 SWB-33	<42> 81 Allowed 0000 Off	l ExtRead
	Results for	SWB-33 category r on drive 81	1 No commands blocked (0 of 3)
	0 SWB-33 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-33 <0A> 82 Allowed 0000 Off 1 ReadLong		
	2 SWB-33 <42> 82 Allowed 0000 Off 1 ExtRead		
	Results for SWB-33 category r on drive 82 No commands blocked (0 of 3)		
	Summary: 9	sent, 0 blocked, 9 not blocked	d
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
		No cmds to drive 82 blocked	27 1 1 1 1 1
	AO-04	No cmas to arive 82 blocked	No cmds to drive 82 blocked
	AO-04 AO-07	No cmds to drive 82 blocked No cmds to drive 80 blocked	No cmds to drive 82 blocked No cmds to drive 80 blocked

Case SWB-34 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-34 Install three drives, configure return code to success, protect
	with pattern UPP, execute read commands.
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message
Tested:	indicating that the tool is active.
	SWB-AM-08. If the tool is executed then the tool shall issue a message
	indicating all drives accessible by the covered interfaces.
	SWB-AM-09. If the tool is executed then the tool shall issue a message
	indicating the protection status of each drive attached to a covered
	interface.
	SWB-AM-10. If the tool is configured to return success on blocked
	commands and the tool blocks a command then the return code shall indicate successful command execution.
	SWB-AO-04. If a subset of all covered drives is specified for protection,
	then commands from the read category shall not be blocked for drives
	in the selected subset.
	SWB-AO-07. If a subset of all covered drives is specified for protection,
	then no commands from any category shall be blocked for drives not in
	the selected subset.
Tester Name:	SN
Test Date:	Mon Sep 29 15:03:27 2003
Test PC:	HecRamsey
Test Software:	SWBT 1.0
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors
Used:	Drive 81, label 64 is a WDC WD64AA with 12594960 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
	hd15 S12
	test-hdl SWB-34 HecRamsey SN r 8A 64 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 (09/29/03 at 15:03:20) Going TSR
	***** Install HDL Log *****
	HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
	3 Hard-Disks reported by Int_13h
	Hard-Disk 0 Not Locked!
	Hard-Disk 1 Locked!
	Hard-Disk 2 Locked!

Case SWB-34 HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997			
	H-D Write Lock successfully installed.		
**** Test	Harness Log *****		
CMD: A:\TES	T-HDL.EXE SWB-34 HecRamsey SN	r 8A 64 2B	
Case: SWB-3	34		
Command set	Command set: Read Date: Mon Sep 29 15:03:27 2003		
Date: Mon S			
@(# Com Operator: S	<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>		
Host: HecRa	2		
	drives 3, Drives: 8A 64 2B		
0 SWB-34 1 SWB-34 2 SWB-34 Results for 0 SWB-34 1 SWB-34 2 SWB-34 Results for 0 SWB-34 1 SWB-34 2 SWB-34 Results for	Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 <02> 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 80 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 80 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 80 No commands blocked (0 of 3) 0 SWB-34 <02> 81 Allowed 0000 Off 1 ReadLong 1 SWB-34 <0A> 81 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 81 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 81 No commands blocked (0 of 3) 0 SWB-34 <02> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 <0A> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 <42> 82 Allowed 0000 Off 1 SextRead Results for SWB-34 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked		
Results: Assertion	Expected Results	Actual Results	
AM-07	Tool active message	Tool active message	
AM-08	3 drives identified	3 drives identified	
AM-09	Drive 80 is unprotected	Drive 80 is unprotected	
AM-09	Drive 81 is protected	Drive 81 is protected	
AM-09	Drive 82 is protected	Drive 82 is protected	
AM-10	0 Commands return success	0 Commands return success	
AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked	
AO-04	No cmds to drive 82 blocked	No cmds to drive 82 blocked	
AO-07	No cmds to drive 80 blocked	No cmds to drive 80 blocked	
Analysis: SWB-34 Expe	cted results achieved		

Case SWB-35 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
Case summary:	SWB-35 Install three drives, configure return code to failure, protect		
	with pattern PUP, execute read commands.		
Assertions	SWB-AM-07. If the tool is executed then the tool shall issue a message		
Tested:	indicating that the tool is active.		
	SWB-AM-08. If the tool is executed then the tool shall issue a message		
	indicating all drives accessible by the covered interfaces.		
	SWB-AM-09. If the tool is executed then the tool shall issue a message		
	indicating the protection status of each drive attached to a covered interface.		
	SWB-AM-11. If the tool is configured to return fail on blocked commands		
	and the tool blocks a command then the return code shall indicate		
	unsuccessful command execution.		
	SWB-AO-04. If a subset of all covered drives is specified for protection,		
	then commands from the read category shall not be blocked for drives		
	in the selected subset.		
	SWB-AO-07. If a subset of all covered drives is specified for protection,		
	then no commands from any category shall be blocked for drives not in		
	the selected subset.		
Tester Name:	SN		
Test Date:	Mon Sep 29 15:00:07 2003		
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors		
Used:	Drive 81, label 64 is a WDC WD64AA with 12594960 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		
	hd15 02		
	test-hdl SWB-35 HecRamsey SN r 8A 64 2B		

Case SWB-35 HDL	Hard-Disk	(Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
	Shutdown Te		
Log File		or Execution *****	
Highlights:		S interrupt 13h (disk service)	
1119111191102		mpiled on 07/29/03 at 07:33:17	
	_	n 1.1 Created 07/29/03 at 07:33:15	
		03 at 15:00:00) Going	
		· · · · · · · · · · · · · · · · · · ·	.SK
		ll HDL Log *****	
			5 971202 (C)GKH 1993,1994,1997
		rd-Disks reported by Int_13h	
		-Disk 0 Locked!	
	Hard	-Disk 1 Not Locked!	
	Hard	-Disk 2 Locked!	
	H-D	Write Lock successfully instal	lled.
	**** Test 1	Harness Log *****	
	CMD: A:\TES	T-HDL.EXE SWB-35 HecRamsey SN	r 8A 64 2B
	Case: SWB-3		
	Command set	: Read	
		ep 29 15:00:07 2003	
	2000: 11011 50	Cr 25 15:00:07 2005	
	Vergion: @/	#) test-hdl.cpp Version 1.1 Cr	reated 08/23/03 at 10:13:51
		wb-defs.h Version 1.2 Create	
	, ,		
	_	oiled on Aug 31 2003 at 08:10:	54
	Operator: SI		
	Host: HecRai	-	
		rives 3, Drives: 8A 64 2B	
	Case (Cmd Drv Action Stat Cry Count	Cmd Name
	0 SWB-35 <02> 80 Allowed 0000 Off 1 ReadSectors		
	1 SWB-35 <oa> 80 Allowed 0000 Off 1 ReadLong</oa>		
	2 SWB-35 <42> 80 Allowed 0000 Off 1 ExtRead		
	Results for SWB-35 category r on drive 80 No commands blocked (0 of 3)		
	0 SWB-35 <02> 81 Allowed 0000 Off 1 ReadSectors		
	1 SWB-35 <0A> 81 Allowed 0000 Off 1 ReadLong		
	2 SWB-35	<42> 81 Allowed 0000 Off	ExtRead
			No commands blocked (0 of 3)
			ReadSectors
			ReadLong
			ExtRead
			No commands blocked (0 of 3)
	Summary: 9	sent, 0 blocked, 9 not blocked	l
	<u> </u>		
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is unprotected	Drive 81 is unprotected
	AM-09	Drive 82 is protected	Drive 82 is protected
1	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 Expe	cted results achieved	

Case SWB-36 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997		
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		

Case SWB-36 HDL	Hard-Disl	x (Int_13) Write Lock V0.5 971	202 (C)GKH 1993,1994,1997
	the sel	ected subset.	
Tester Name:	SN		
Test Date:	Mon Sep 29	14:56:39 2003	
Test PC:	HecRamsey		
Test Software:	SWBT 1.0		
Hard Drives	Drive 80, 1	abel 8A is a WDC WD200EB-00CSE	70 with 39102336 sectors
Used:	Drive 81, 1	abel 64 is a WDC WD64AA with 1	2594960 sectors
	Drive 82, 1	abel 2B is a Quantum QM39100TI	O-SCA Drive with 17783249 sectors
Commands	Boot Test P	C to (DOS 7.1) Windows 98 [Ver	rsion 4.10.2222]
executed:	tally13		
	hd15 S01		
	test-hdl SW	B-36 HecRamsey SN r 8A 64 2B	
	Shutdown Te	st PC	
Log File	**** Monit	or Execution *****	
Highlights:	Monitor BIO	S interrupt 13h (disk service))
	tally13 co	mpiled on 07/29/03 at 07:33:17	7
	@(#) Version	n 1.1 Created 07/29/03 at 07:2	28:05
	Now (09/29/	03 at 14:56:31) Going 1	TSR
	***** Insta	ll HDL Log ****	
	HDL Hard	-Disk (Int_13) Write Lock V0.5	5 971202 (C)GKH 1993,1994,1997
	3 Ha	rd-Disks reported by Int_13h	
	Hard	-Disk 0 Locked!	
	Hard	-Disk 1 Locked!	
	Hard	-Disk 2 Not Locked!	
	H-D	Write Lock successfully instal	lled.
	***** Test	Harness Log *****	
	CMD: A:\TES	T-HDL.EXE SWB-36 HecRamsey SN	r 8A 64 2B
	Case: SWB-3	6	
	Command set	: Read	
	Date: Mon S	ep 29 14:56:39 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: HecRa	-	
		rives 3, Drives: 8A 64 2B	
		Cmd Drv Action Stat Cry Count	
			ReadSectors
			ReadLong
			ExtRead
			No commands blocked (0 of 3)
			ReadSectors
			ReadLong
		<42> 81 Allowed 0000 Off	
		5 1	No commands blocked (0 of 3)
			ReadSectors
			ReadLong
		<42> 82 Allowed 0000 Off	
			No commands blocked (0 of 3)
	Summary: 9	sent, 0 blocked, 9 not blocked	1
7. 1.	 	<u> </u>	
Results:	Assertion	Expected Results	Actual Results
	AM-07	Tool active message	Tool active message
	AM-08	3 drives identified	3 drives identified
	AM-09	Drive 80 is protected	Drive 80 is protected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09	Drive 82 is unprotected	Drive 82 is unprotected
	AM-10	0 Commands return success	0 Commands return success
	AO-04	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-04	No cmds to drive 81 blocked	No cmds to drive 81 blocked
	AO-07	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	ļ. L	cted results achieved	
11101/010.	SHE SO EAPE	COCC TODATED ACTITIONED	

Case SWB-37 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-37 Install all drives, configure to be active at boot and shutdown, configure return code to failure, protect with pattern odd, execute write commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.

Cage SWB-37 HDI.	Hard-Disk (Int_13) Write Lock V0.5 9712	002 (C)CKH 1993 1994 1997
Case SWD-37 HDD	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	
	interface.	
	SWB-AM-11. If the tool is configured to re	eturn fail on blocked commands
	and the tool blocks a command then th	e return code shall indicate
	unsuccessful command execution.	
	SWB-AO-08. If the tool is active during the	ne operating system boot and
	shutdown processes then no changes ar	e made to any protected drives.
Tester Name:	Blive	
Test Date:	Thu Sep 25 15:15:09 2003	
Test PC:	Cadfael	
Test Software:	SWBT 1.0	
Hard Drives	Drive 80, label 6F is a Maxtor 6Y060L0 wi	
Used:	Drive 81, label 8A is a WDC WD200EB-00CSF	
	Drive 82, label E4 is a QUANTUM ATLAS10K2	
	Drive 83, label 2B is a Quantum QM39100TD	-SCA Drive with 17783249 sectors
Commands	Boot Host (HDL in AUTOEXEC.BAT)	
executed:		
	Windows 98 [Version 4.10.2222]	
	tally13	
	hdl5 13 test-hdl SWB-37 Cadfael Blive w 6F 8A E4 :	חר
		2B
Iog Eilo	Shutdown Host **** Monitor Execution ****	
Log File Highlights:	Monitor BIOS interrupt 13h (disk service)	
підпітідпсь.	tally13 compiled on 07/29/03 at 07:33:17	
	@(#) Version 1.1 Created 07/29/03 at 07:23	3.05
	Now (09/25/03 at 15:13:32) Going To	
	***** Install HDL Log ****	510
	HDL Hard-Disk (Int_13) Write Lock V0.5	971202 (C)GKH 1993.1994.1997
	4 Hard-Disks reported by Int_13h	
	Hard-Disk O Not Locked!	
	Hard-Disk 1 Locked!	
	Hard-Disk 2 Not Locked!	
	Hard-Disk 3 Locked!	
	H-D Write Lock successfully instal	led.
	***** Test Harness Log *****	
	CMD: A:\TEST-HDL.EXE SWB-37 Cadfael Blive	w 6F 8A E4 2B
	Case: SWB-37	
	Command set: Write	
	Date: Thu Sep 25 15:15:09 2003	
	Version: @(#) test-hdl.cpp Version 1.1 Cre	
	@(#) wb-defs.h Version 1.2 Created	
	Compiled on Aug 31 2003 at 08:10:5	4
	Operator: Blive	
	Host: Cadfael	
	Number of drives 4, Drives: 6F 8A E4 2B	Cmd Namo
	Case Cmd Drv Action Stat Cry Count 0 SWB-37 <03> 80 Allowed 0000 Off 1	WriteSectors
		WriteLong
		ExtWrite
	Results for SWB-37 category w on drive 80	
	~ -	WriteSectors
		WriteLong
		ExtWrite
	Results for SWB-37 category w on drive 81	
	~ -	WriteSectors
		WriteLong
		ExtWrite
	Results for SWB-37 category w on drive 82	No commands blocked (0 of 3)
	0 SWB-37 <03> 83 Blocked 0300 On 0	WriteSectors
	1 SWB-37 <0B> 83 Blocked 0300 On 0	WriteLong
	2 SWB-37 <43> 83 Blocked 0300 On 0	ExtWrite
	Results for SWB-37 category w on drive 83	
	Summary: 12 sent, 6 blocked, 6 not blocked	i
Results:	Assertion Expected Results	Actual Results
	AM-07 Tool active message	Tool active message

Case SWB-37 HDL	Hard-Disk	(Int_13) Write Lock V0.5 9712	02 (C)GKH 1993,1994,1997
	AM-08	4 drives identified	4 drives identified
	AM-09	Drive 80 is unprotected	Drive 80 is unprotected
	AM-09	Drive 81 is protected	Drive 81 is protected
	AM-09 Drive 82 is unprotected Drive 82 is unprotected		Drive 82 is unprotected
	AM-09	Drive 83 is protected	Drive 83 is protected
	AM-11	6 Commands return fail	6 Commands return fail
	AO-08	All cmds to drive 81 blocked	All cmds to drive 81 blocked
	AO-08	All cmds to drive 83 blocked	All cmds to drive 83 blocked
	AO-08	No cmds to drive 80 blocked	No cmds to drive 80 blocked
	AO-08	No cmds to drive 82 blocked	No cmds to drive 82 blocked
Analysis:	SWB-37 Expe	cted results achieved	

Case summary: SWB-38 Install all drives, configure to be active at boot and shutdow configure return code to success, protect with pattern even, execute write commands. Assertions Tested: SWB-AM-07. If the tool is executed then the tool shall issue a messag indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a messag indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag 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	e e e eered
write commands. Assertions Tested: SWB-AM-07. If the tool is executed then the tool shall issue a messag indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a messag indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag indicating the protection status of each drive attached to a coverence 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.	e e ered
Assertions Tested: SWB-AM-07. If the tool is executed then the tool shall issue a messag indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a messag indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag 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.	e e ered
Tested: indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a messag indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag 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.	e e ered
SWB-AM-08. If the tool is executed then the tool shall issue a messag indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag indicating the protection status of each drive attached to a coverence 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.	e ered
indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a messag indicating the protection status of each drive attached to a coverence 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.	e ered
SWB-AM-09. If the tool is executed then the tool shall issue a messag indicating the protection status of each drive attached to a coverence. 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.	ered L
indicating the protection status of each drive attached to a coverence 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.	ered L
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.	L
commands and the tool blocks a command then the return code shall indicate successful command execution.	
indicate successful command execution.	
I QWP_NO_NR If the tool is active during the operating greater boot and	
shutdown processes then no changes are made to any protected driv	res.
Tester Name: JRL	
Test Date: Mon Sep 29 14:19:29 2003 Test PC: McMillan	
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 64 is a WDC WD64AA with 12594960 sectors	
Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548	
sectors	
Drive 84, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sector	s
Commands Boot Host (HDL in AUTOEXEC.BAT)	
executed: Windows 98 [Version 4.10.2222]	
tally13	
hd15 S024	
test-hdl SWB-38 McMillan JRL w 90 8A 64 1F E3	
Shutdown Host	
Log File **** Monitor Execution ****	
Highlights: Monitor BIOS interrupt 13h (disk service)	
tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05	
Now (09/29/03 at 14:13:08) Going TSR	
***** Install HDL Log *****	
HDL Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,199	7
5 Hard-Disks reported by Int_13h	
Hard-Disk 0 Locked!	
Hard-Disk 1 Not Locked!	
Hard-Disk 2 Locked!	
Hard-Disk 3 Not Locked! Hard-Disk 4 Locked!	
H-D Write Lock successfully installed.	
***** Test Harness Log *****	
CMD: A:\TEST-HDL.EXE SWB-38 McMillan JRL w 90 8A 64 1F E3	
Case: SWB-38	
Command set: Write	
Date: Mon Sep 29 14:19:29 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: JRL	
Host: McMillan	
Number of drives 5, Drives: 90 8A 64 1F E3	

		k (Int_13) Write Lock V0.5 9712	202 (C)GKH 1993,1994,1997
1	Case (Cmd Drv Action Stat Cry Count	Cmd Name
			WriteSectors
		<0B> 80 Blocked 0000 Off 0	
	2 SWB-38	<43> 80 Blocked 0000 Off 0	ExtWrite
		SWB-38 category w on drive 80	All commands blocked (3 of 3)
			WriteSectors
			WriteLong
			ExtWrite
		SWB-38 category w on drive 81	,
			WriteSectors
			WriteLong
			ExtWrite
		SWB-38 category w on drive 82	,
			WriteSectors
			WriteLong
			ExtWrite
		SWB-38 category w on drive 83	
			WriteSectors
			WriteLong
			ExtWrite
		SWB-38 category w on drive 84	All commands blocked (3 of 3)
			3
1	Summary. 15	sent, 9 blocked, 6 not blocked	i
	Summary. 13	sent, 9 blocked, 6 not blocked	1
Results:	Assertion	Expected Results	Actual Results
Results:		Expected Results Tool active message	Actual Results Tool active message
Results:	Assertion	Expected Results Tool active message 5 drives identified	Actual Results Tool active message 5 drives identified
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 protected	Actual Results Tool active message 5 drives identified Drive 80 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected	Actual Results Tool active message 5 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 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected	Actual Results Tool active message 5 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	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success
Results:	Assertion AM-07 AM-08 AM-09 AM-09 AM-09 AM-09 AM-09 AM-09 AM-10 AO-08	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success All cmds to drive 80 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success 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-09 AM-10 AO-08 AO-08	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success All cmds to drive 80 blocked All cmds to drive 82 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success All cmds to drive 80 blocked 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-10 AO-08 AO-08 AO-08	Expected Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success All cmds to drive 80 blocked All cmds to drive 82 blocked All cmds to drive 84 blocked	Actual Results Tool active message 5 drives identified Drive 80 is protected Drive 81 is unprotected Drive 82 is protected Drive 83 is unprotected Drive 84 is protected 9 Commands return success All cmds to drive 80 blocked All cmds to drive 84 blocked

Case SWB-39 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
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.
100000	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:	JRL
Test Date:	Mon Sep 29 14:10:04 2003
Test PC:	McMillan
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 64 is a WDC WD64AA with 12594960 sectors
	Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548
	sectors
	Drive 84, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors
Commands executed:	Boot Test PC
	Windows 98 [Version 4.10.2222]
	tally13
	hd15 234

```
Case SWB-39 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                test-hdl SWB-39 McMillan JRL w 90 8A 64 1F E4
                t-off SWB-39 McMillan JRL
                hdl5 R
                test-hdl SWB-39 McMillan JRL a 90 8A 64 1F E4
                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 (09/29/03 \text{ at } 14:09:41) Going . . . TSR
                ***** Install HDL Log *****
                HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                       5 Hard-Disks reported by Int_13h
                       Hard-Disk 0 Not Locked!
                       Hard-Disk 1 Not Locked!
                       Hard-Disk 2
                                       Locked!
                                       Locked!
                       Hard-Disk 3
                       Hard-Disk 4
                                       Locked!
                       H-D Write Lock successfully installed.
                ***** Blocked Write Commands *****
                CMD: a:\TEST-HDL.EXE SWB-39 McMillan JRL w 90 8A 64 1F E4
                Case: SWB-39
                Command set: Write
                Date: Mon Sep 29 14:09:49 2003
                Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
                        @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19
                        Compiled on Aug 31 2003 at 08:10:54
                Operator: JRL
                Host: McMillan
                Number of drives 5, Drives: 90 8A 64 1F E4
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-39 <03> 80 Allowed 0000 Off 1 WriteSectors
                                                       1 WriteLong
                  1 SWB-39 <0B> 80 Allowed 0000 Off
                  2 SWB-39 <43> 80 Allowed 0000 Off
                                                        1 ExtWrite
                Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)
                  0 SWB-39 <03> 81 Allowed 0000 Off 1 WriteSectors
                  1 SWB-39 <0B> 81 Allowed 0000 Off
                                                     1 WriteLong
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)
                  0 SWB-39 <03> 82 Blocked 0300 On 0 WriteSectors
1 SWB-39 <0B> 82 Blocked 0300 On 0 WriteLong
2 SWB-39 <43> 82 Blocked 0300 On 0 ExtWrite
                Results for SWB-39 category w on drive 82 All commands blocked (3 of 3)
                  1 SWB-39 <0B> 83 Blocked 0300 On
                                                        0 WriteLong
                                                     0 ExtWrite
                  2 SWB-39 <43> 83 Blocked 0300 On
                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
                                                        0 ExtWrite
                  2 SWB-39 <43> 84 Blocked 0300 On
                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
                           0
                  82
                  83
                           Ω
                           Ω
                ***** Uninstall HDL Log *****
                HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                       H-D Write Lock removed.
                ***** Test Harness Log *****
                CMD: a:\TEST-HDL.EXE SWB-39 McMillan JRL a 90 8A 64 1F E4
                Case: SWB-39
                Command set: All
                Date: Mon Sep 29 14:10:04 2003
                Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51
```

```
Case SWB-39 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                        @(#) 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: McMillan
                Number of drives 5, Drives: 90 8A 64 1F E4
                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 SeekDrive
1 AltReset
                  1 SWB-39 <OC> 80 Allowed 0000 Off
                  2 SWB-39 <0D> 80 Allowed 0000 Off
                  3 SWB-39 <11> 80 Allowed 0000 Off
                                                       1 Recalibrate
                  4 SWB-39 <47> 80 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-39 category c on drive 80 No commands blocked (0 of 5)
                  0 SWB-39 <00> 81 Allowed 0000 Off 1 Reset
                  1 SWB-39 <0C> 81 Allowed 0000 Off
                                                       1 SeekDrive
                                                       1 AltReset
1 Recalibrate
                  2 SWB-39 <0D> 81 Allowed 0000 Off
                  3 SWB-39 <11> 81 Allowed 0000 Off
                                                       1 ExtendedSeek
                  4 SWB-39 <47> 81 Allowed 0000 Off
                Results for SWB-39 category c on drive 81 No commands blocked (0 of 5)
                  0 SWB-39 <00> 82 Allowed 0000 Off 1 Reset
                  1 SWB-39 <0C> 82 Allowed 0000 Off
                                                        1 SeekDrive
                  2 SWB-39 <0D> 82 Allowed 0000 Off
                                                       1 AltReset
                                                       1 Recalibrate
1 ExtendedSeek
                  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)
                  0 SWB-39 <00> 83 Allowed 0000 Off 1 Reset
                                                       1 SeekDrive
1 AltReset
                  1 SWB-39 <0C> 83 Allowed 0000 Off
                  2 SWB-39 <0D> 83 Allowed 0000 Off
                  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 SeekDrive
                  1 SWB-39 <OC> 84 Allowed 0000 Off
                                                        1 AltReset
                  2 SWB-39 <0D> 84 Allowed 0000 Off
                                                        1 Recalibrate
                  3 SWB-39 <11> 84 Allowed 0000 Off
                  4 SWB-39 <47> 84 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-39 category c on drive 84 No commands blocked (0 of 5)
                Summary: 25 sent, 0 blocked, 25 not blocked
                  0 SWB-39 <01> 80 Allowed 0000 Off
                                                        1 GetLastStatus
                                                        1 VerifySectors
1 ReadDriveParms
                  1 SWB-39 <04> 80 Allowed 0000 Off
                  2 SWB-39 <08> 80 Allowed 0000 Off
                  3 SWB-39 <10> 80 Allowed 0000 Off
                                                       1 TestDriveReady
                                                       1 ReadDriveType
1 CheckForExtensions
                  4 SWB-39 <15> 80 Allowed 0000 Off
                  5 SWB-39 <41> 80 Allowed 0000 Off
                                                       1 VerifySectors
                  6 SWB-39 <44> 80 Allowed 0000 Off
                  7 SWB-39 <48> 80 Allowed 0000 Off
                                                       1 GetDriveParms
                Results for SWB-39 category i on drive 80 No commands blocked (0 of 8)
                  0 SWB-39 <01> 81 Allowed 0000 Off 1 GetLastStatus
                  1 SWB-39 <04> 81 Allowed 0000 Off
                                                        1 VerifySectors
                                                       1 ReadDriveParms
1 TestDriveReady
                  2 SWB-39 <08> 81 Allowed 0000 Off
                  3 SWB-39 <10> 81 Allowed 0000 Off
                                                       1 ReadDriveType
                  4 SWB-39 <15> 81 Allowed 0000 Off
                                                       1 CheckForExtensions
                  5 SWB-39 <41> 81 Allowed 0000 Off
                                                       1 VerifySectors
1 GetDriveParms
                  6 SWB-39 <44> 81 Allowed 0000 Off
                  7 SWB-39 <48> 81 Allowed 0000 Off
                Results for SWB-39 category i on drive 81 No commands blocked (0 of 8)
                  0 SWB-39 <01> 82 Allowed 0000 Off 1 GetLastStatus
                  1 SWB-39 <04> 82 Allowed 0000 Off
                                                           VerifySectors
                                                       1 ReadDriveParms
                  2 SWB-39 <08> 82 Allowed 0000 Off
                  3 SWB-39 <10> 82 Allowed 0000 Off
                                                       1 TestDriveReady
                                                       1 ReadDriveType
1 CheckForExtensions
                  4 SWB-39 <15> 82 Allowed 0000 Off
                  5 SWB-39 <41> 82 Allowed 0000 Off
                                                       1 VerifySectors
                  6 SWB-39 <44> 82 Allowed 0000 Off
                  7 SWB-39 <48> 82 Allowed 0000 Off
                                                        1 GetDriveParms
                Results for SWB-39 category i on drive 82 No commands blocked (0 of 8)
                  0 SWB-39 <01> 83 Allowed 0000 Off 1 GetLastStatus
                  1 SWB-39 <04> 83 Allowed 0000 Off
                                                       1 VerifySectors
                  2 SWB-39 <08> 83 Allowed 0000 Off
                                                       1 ReadDriveParms
1 TestDriveReady
                  3 SWB-39 <10> 83 Allowed 0000 Off
                  4 SWB-39 <15> 83 Allowed 0000 Off
                                                       1 ReadDriveType
```

```
Case SWB-39 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                  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 VerifySectors
1 ReadDriveParms
                  1 SWB-39 <04> 84 Allowed 0000 Off
                  2 SWB-39 <08> 84 Allowed 0000 Off
                                                        1 TestDriveReady
                  3 SWB-39 <10> 84 Allowed 0000 Off
                  4 SWB-39 <15> 84 Allowed 0000 Off
                                                        1 ReadDriveType
                                                        1 CheckForExtensions
1 VerifySectors
                  5 SWB-39 <41> 84 Allowed 0000 Off
                  6 SWB-39 <44> 84 Allowed 0000 Off
                  7 SWB-39 <48> 84 Allowed 0000 Off
                                                        1 GetDriveParms
                Results for SWB-39 category i on drive 84 No commands blocked (0 of 8)
                Summary: 40 sent, 0 blocked, 40 not blocked
                  0 SWB-39 <02> 80 Allowed 0000 Off
                                                         1 ReadSectors
                                                         1 ReadLong
1 ExtRead
                  1 SWB-39 < 0A> 80 Allowed 0000 Off
                  2 SWB-39 <42> 80 Allowed 0000 Off
                Results for SWB-39 category r on drive 80 No commands blocked (0 of 3)
                  0 SWB-39 <02> 81 Allowed 0000 Off 1 ReadSectors
                                                         1 ReadLong
1 ExtRead
                  1 SWB-39 < 0A> 81 Allowed 0000 Off
                  2 SWB-39 <42> 81 Allowed 0000 Off
                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 3)
                  0 SWB-39 <02> 83 Allowed 0000 Off \, 1 ReadSectors
                                                         1 ReadLong
                  1 SWB-39 <0A> 83 Allowed 0000 Off
                  2 SWB-39 <42> 83 Allowed 0000 Off
                                                        1 ExtRead
                Results for SWB-39 category r on drive 83 No commands blocked (0 of 3)
                  0 SWB-39 <02> 84 Allowed 0000 Off \hspace{1cm} 1 ReadSectors
                  1 SWB-39 <0A> 84 Allowed 0000 Off
                                                         1 ReadLong
                  2 SWB-39 <42> 84 Allowed 0000 Off
                                                         1 ExtRead
                Results for SWB-39 category r on drive 84 No commands blocked (0 of 3)
                Summary: 15 sent, 0 blocked, 15 not blocked
                  0 SWB-39 <03> 80 Allowed 0000 Off
                                                         2 WriteSectors
                  1 SWB-39 <0B> 80 Allowed 0000 Off
                                                         2 WriteLong
                  2 SWB-39 <43> 80 Allowed 0000 Off
                                                         2 ExtWrite
                Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)
                  0 SWB-39 <03> 81 Allowed 0000 Off 2 WriteSectors
                                                         2 WriteLong
                  1 SWB-39 <0B> 81 Allowed 0000 Off
                  2 SWB-39 <43> 81 Allowed 0000 Off
                                                        2 ExtWrite
                Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)
                  0 SWB-39 <03> 82 Allowed 0000 Off 1 WriteSectors 1 SWB-39 <0B> 82 Allowed 0000 Off 1 WriteLong
                  2 SWB-39 <43> 82 Allowed 0000 Off
                                                        1 ExtWrite
                Results for SWB-39 category w on drive 82 No commands blocked (0 of 3)
                  0 SWB-39 <03> 83 Allowed 0000 Off 1 WriteSectors
                  1 SWB-39 <0B> 83 Allowed 0000 Off
                                                         1 WriteLong
                  2 SWB-39 <43> 83 Allowed 0000 Off
                                                         1 ExtWrite
                Results for SWB-39 category w on drive 83 No commands blocked (0 of 3)
                  0 SWB-39 <03> 84 Allowed 0000 Off 1 WriteSectors
                  1 SWB-39 <0B> 84 Allowed 0000 Off
                                                         1 WriteLong
                  2 SWB-39 <43> 84 Allowed 0000 Off
                                                         1 ExtWrite
                Results for SWB-39 category w on drive 84 No commands blocked (0 of 3)
                Summary: 15 sent, 0 blocked, 15 not blocked
                  0 SWB-39 <05> 80 Allowed 0000 Off
                                                         1 FormatTrack
                  1 SWB-39 <06> 80 Allowed 0000 Off
                                                         1 FormatBadSectors
                                                         1 FormatCyl
                  2 SWB-39 <07> 80 Allowed 0000 Off
                                                         1 InitDriveParms
1 DiagnosticESDI
                  3 SWB-39 <09> 80 Allowed 0000 Off
                  4 SWB-39 <0E> 80 Allowed 0000 Off
                  5 SWB-39 <0F> 80 Allowed 0000 Off
                                                        1 DiagnosticESDI
                  6 SWB-39 <12> 80 Allowed 0000 Off
                                                         1 DiagnosticRAM
                  7 SWB-39 <13> 80 Allowed 0000 Off
                                                         1
                                                            DiagnosticDrive
                  8 SWB-39 <14> 80 Allowed 0000 Off
                                                        1 DiagnosticCTL
                Results for SWB-39 category x on drive 80 No commands blocked (0 of 9)
                  0 SWB-39 <05> 81 Allowed 0000 Off 1 FormatTrack 1 SWB-39 <06> 81 Allowed 0000 Off 1 FormatBadSectors
                  1 SWB-39 <06> 81 Allowed 0000 Off
                  2 SWB-39 <07> 81 Allowed 0000 Off
                                                         1 FormatCvl
```

```
Case SWB-39 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                                                        1 InitDriveParms
                   3 SWB-39 <09> 81 Allowed 0000 Off
                   4 SWB-39 <0E> 81 Allowed 0000 Off
                                                          1 DiagnosticESDI
                                                          1 DiagnosticESDI1 DiagnosticRAM
                   5 SWB-39 <OF> 81 Allowed 0000 Off
                   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)
                                                        1 FormatTrack
                   0 SWB-39 <05> 82 Allowed 0000 Off
                   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
                   5 SWB-39 <0F> 82 Allowed 0000 Off
                                                          1 DiagnosticRAM
1 DiagnosticDrive
                   6 SWB-39 <12> 82 Allowed 0000 Off
                   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
                   2 SWB-39 <07> 83 Allowed 0000 Off
                                                          1 InitDriveParms
1 DiagnosticESDI
                   3 SWB-39 <09> 83 Allowed 0000 Off
                   4 SWB-39 <0E> 83 Allowed 0000 Off
                                                          1 DiagnosticESDI
                   5 SWB-39 <0F> 83 Allowed 0000 Off
                                                          1 DiagnosticRAM
1 DiagnosticDrive
                   6 SWB-39 <12> 83 Allowed 0000 Off
                   7 SWB-39 <13> 83 Allowed 0000 Off
                                                          1 DiagnosticCTL
                   8 SWB-39 <14> 83 Allowed 0000 Off
                 Results for SWB-39 category x on drive 83 No commands blocked (0 of 9)
                   0 SWB-39 <05> 84 Allowed 0000 Off 1 FormatTrack
1 SWB-39 <06> 84 Allowed 0000 Off 1 FormatBadSectors
                   2 SWB-39 <07> 84 Allowed 0000 Off
                                                          1 FormatCyl
                                                          1 InitDriveParms
1 DiagnosticESDI
                   3 SWB-39 <09> 84 Allowed 0000 Off
                   4 SWB-39 <0E> 84 Allowed 0000 Off
                   5 SWB-39 <0F> 84 Allowed 0000 Off
                                                          1 DiagnosticESDI
                                                         1 DiagnosticRAM
1 DiagnosticDrive
1 DiagnosticCTL
                   6 SWB-39 <12> 84 Allowed 0000 Off
                   7 SWB-39 <13> 84 Allowed 0000 Off
                   8 SWB-39 <14> 84 Allowed 0000 Off
                 Results for SWB-39 category x on drive 84 No commands blocked (0 of 9)
                 Summary: 45 sent, 0 blocked, 45 not blocked
                   0 SWB-39 <16> 80 Allowed 0000 Off
                                                           1 Undefined
                          misc commands 17-FD results omitted
                           see log files for full results
                 226 SWB-39 <FE> 80 Allowed 0000 Off
                                                           1 Undefined
                 227 SWB-39 <FF> 80 Allowed 0000 Off
                                                           1 Undefined
                 Results for SWB-39 category m on drive 80 No commands blocked (0 of 228)
                   0 SWB-39 <16> 81 Allowed 0000 Off
                                                           1 Undefined
                          misc commands 17-FD results omitted
                           see log files for full results
                 226 SWB-39 <FE> 81 Allowed 0000 Off
                                                          1 Undefined
                 227 SWB-39 <FF> 81 Allowed 0000 Off
                                                           1 Undefined
                 Results for SWB-39 category m on drive 81 No commands blocked (0 of 228)
                   0 SWB-39 <16> 82 Allowed 0000 Off
                                                           1 Undefined
                          misc commands 17-FD results omitted
                           see log files for full results
```

Case SWB-39 HDI	Hard-Dis	x (Int_13) Write Lock V0.5	971202 (C)GKH 1993,1994,	1997
		<fe> 82 Allowed 0000 Off</fe>		
	227 SWB-39	<ff> 82 Allowed 0000 Off</ff>	1 Undefined	
		SWB-39 category m on driv		(0 of 228)
	0 SWB-39	<16> 83 Allowed 0000 Off	1 Undefined	
	misc commands 17-FD results omitted			
	se	see log files for full results		
	226 SWB-39	<fe> 83 Allowed 0000 Off</fe>	1 Undefined	
	227 SWB-39	<ff> 83 Allowed 0000 Off</ff>	1 Undefined	
		SWB-39 category m on driv		(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			
	227 SWB-39 Results for	<pre><fe> 84 Allowed 0000 Off <ff> 84 Allowed 0000 Off SWB-39 category m on driv 40 sent, 0 blocked, 1140 m</ff></fe></pre>	1 Undefined re 84 No commands blocked	(0 of 228)
				,
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	H-D Write Lock removed.	
Analysis:	SWB-39 Expe	cted results achieved		

Case SWB-40 HDL	Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
Case summary:	SWB-40 Install all drives, configure return code to success, protect with pattern low, execute write commands, uninstall, execute all commands.
Assertions Tested:	SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. SWB-AO-09. If the tool is active and the tool is then uninstalled then no commands to any drive shall be blocked.
Tester Name:	Blive
Test Date:	Thu Sep 25 13:55:23 2003
Test PC:	Rumpole
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 E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors Drive 83, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors
Commands executed:	Boot Test PC Windows 98 [Version 4.10.2222] tally13 hd15 S01 test-hd1 SWB-40 Rumpole Blive w 6F 8A E4 2B

```
Case SWB-40 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                t-off SWB-40 Rumpole Blive
                hdl5 R
                test-hdl SWB-40 Rumpole Blive a 6F 8A E4 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 (09/25/03 at 13:55:14) Going . . . TSR
                ***** Install HDL Log *****
                HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                        4 Hard-Disks reported by Int_13h
                       Hard-Disk 0
                                        Locked!
                       Hard-Disk 1
                                        Locked!
                       Hard-Disk 2 Not Locked!
                       Hard-Disk 3 Not Locked!
                       H-D Write Lock successfully installed.
                ***** Blocked Write Commands ****
                CMD: a:\TEST-HDL.EXE SWB-40 Rumpole Blive w 6F 8A E4 2B
                Case: SWB-40
                Command set: Write
                Date: Thu Sep 25 13:55:17 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: Blive
                Host: Rumpole
                Number of drives 4, Drives: 6F 8A E4 2B
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-40 <03> 80 Blocked 0000 Off \, 0 WriteSectors
                   1 SWB-40 <0B> 80 Blocked 0000 Off
                                                         0 WriteLong
                                                        0 ExtWrite
                  2 SWB-40 <43> 80 Blocked 0000 Off
                Results for SWB-40 category w on drive 80 All commands blocked (3 of 3)
                  0 SWB-40 <03> 81 Blocked 0000 Off 0 WriteSectors
1 SWB-40 <0B> 81 Blocked 0000 Off 0 WriteLong
                  1 SWB-40 <0B> 81 Blocked 0000 Off
                  2 SWB-40 <43> 81 Blocked 0000 Off 0 ExtWrite
                Results for SWB-40 category w on drive 81 All commands blocked (3 of 3)
                  0 SWB-40 <03> 82 Allowed 0000 Off 1 WriteSectors
1 SWB-40 <0B> 82 Allowed 0000 Off 1 WriteLong
                  1 SWB-40 <0B> 82 Allowed 0000 Off
                  2 SWB-40 <43> 82 Allowed 0000 Off
                                                        1 ExtWrite
                Results for SWB-40 category w on drive 82 No commands blocked (0 of 3)
                  0 SWB-40 <03> 83 Allowed 0000 Off
                                                       1 WriteSectors
                  1 SWB-40 <0B> 83 Allowed 0000 Off
                                                         1 WriteLong
                  2 SWB-40 <43> 83 Allowed 0000 Off
                                                         1 ExtWrite
                Results for SWB-40 category w on drive 83 No commands blocked (0 of 3)
                Summary: 12 sent, 6 blocked, 6 not blocked
                Number of Commands not blocked (should total to 6)
                Drive Count
                  80
                  81
                            0
                  82
                           3
                ***** Uninstall HDL Log *****
                HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                       H-D Write Lock now non-removable!
                ***** Test Harness Log *****
                CMD: a:\TEST-HDL.EXE SWB-40 Rumpole Blive a 6F 8A E4 2B
                Case: SWB-40
                Command set: All
                Date: Thu Sep 25 13:55:23 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: Blive
                Host: Rumpole
                Number of drives 4, Drives: 6F 8A E4 2B
                Warning: non-zero tally (3) for drive 82 (reboot to clear)
                Warning: non-zero tally (3) for drive 83 (reboot to clear)
```

```
Case SWB-40 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                     Case Cmd Drv Action Stat Cry Count Cmd Name
                  0 SWB-40 <00> 80 Allowed 0000 Off
                                                      1 Reset
                                                        1
                  1 SWB-40 <0C> 80 Allowed 0000 Off
                                                           SeekDrive
                  2 SWB-40 <0D> 80 Allowed 0000 Off
                                                        1 AltReset
                  3 SWB-40 <11> 80 Allowed 0000 Off
                                                       1 Recalibrate
                  4 SWB-40 <47> 80 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-40 category c on drive 80 No commands blocked (0 of 5)
                                                     1 Reset
                  0 SWB-40 <00> 81 Allowed 0000 Off
                  1 SWB-40 <0C> 81 Allowed 0000 Off
                                                        1 SeekDrive
                                                       1 AltReset
1 Recalibrate
                  2 SWB-40 <0D> 81 Allowed 0000 Off
                  3 SWB-40 <11> 81 Allowed 0000 Off
                  4 SWB-40 <47> 81 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-40 category c on drive 81 No commands blocked (0 of 5)
                  0 SWB-40 <00> 82 Allowed 0000 Off
                                                     1 Reset
                  1 SWB-40 <OC> 82 Allowed 0000 Off
                                                        1 SeekDrive
                  2 SWB-40 <0D> 82 Allowed 0000 Off
                                                       1 AltReset
                                                      1 Recalibrate
1 ExtendedSeek
                  3 SWB-40 <11> 82 Allowed 0000 Off
                  4 SWB-40 <47> 82 Allowed 0000 Off
                Results for SWB-40 category c on drive 82 No commands blocked (0 of 5)
                  0 SWB-40 <00> 83 Allowed 0000 Off 1 Reset
                                                       1 SeekDrive
1 AltReset
                  1 SWB-40 <0C> 83 Allowed 0000 Off
                  2 SWB-40 <0D> 83 Allowed 0000 Off
                  3 SWB-40 <11> 83 Allowed 0000 Off
                                                       1 Recalibrate
                  4 SWB-40 <47> 83 Allowed 0000 Off
                                                        1 ExtendedSeek
                Results for SWB-40 category c on drive 83 No commands blocked (0 of 5)
                Summary: 20 sent, 0 blocked, 20 not blocked
                  0 SWB-40 <01> 80 Allowed 0000 Off
                                                        1 GetLastStatus
                                                        1 VerifySectors
                  1 SWB-40 <04> 80 Allowed 0000 Off
                  2 SWB-40 <08> 80 Allowed 0000 Off
                                                       1 ReadDriveParms
                                                       1 TestDriveReady
1 ReadDriveType
                  3 SWB-40 <10> 80 Allowed 0000 Off
                  4 SWB-40 <15> 80 Allowed 0000 Off
                  5 SWB-40 <41> 80 Allowed 0000 Off
                                                       1 CheckForExtensions
                                                      1 VerifySectors
                  6 SWB-40 <44> 80 Allowed 0000 Off
                  7 SWB-40 <48> 80 Allowed 0000 Off
                                                        1 GetDriveParms
                Results for SWB-40 category i on drive 80 No commands blocked (0 of 8)
                  0 SWB-40 <01> 81 Allowed 0000 Off 1 GetLastStatus
                                                       1 VerifySectors
1 ReadDriveParms
                  1 SWB-40 <04> 81 Allowed 0000 Off
                  2 SWB-40 <08> 81 Allowed 0000 Off
                                                      1 TestDriveReady
                  3 SWB-40 <10> 81 Allowed 0000 Off
                  4 SWB-40 <15> 81 Allowed 0000 Off
                                                     1 ReadDriveType
                                                      1 CheckForExtensions
1 VerifySectors
                  5 SWB-40 <41> 81 Allowed 0000 Off
                  6 SWB-40 <44> 81 Allowed 0000 Off
                  7 SWB-40 <48> 81 Allowed 0000 Off
                                                       1 GetDriveParms
                Results for SWB-40 category i on drive 81 No commands blocked (0 of 8)
                  0 SWB-40 <01> 82 Allowed 0000 Off \phantom{0} 1 GetLastStatus
                  1 SWB-40 <04> 82 Allowed 0000 Off
                                                       1 VerifySectors
                  2 SWB-40 <08> 82 Allowed 0000 Off
                                                      1 ReadDriveParms
                                                       1 TestDriveReady
1 ReadDriveType
                  3 SWB-40 <10> 82 Allowed 0000 Off
                  4 SWB-40 <15> 82 Allowed 0000 Off
                  5 SWB-40 <41> 82 Allowed 0000 Off
                                                       1 CheckForExtensions
                                                      1 VerifySectors
1 GetDriveParms
                  6 SWB-40 <44> 82 Allowed 0000 Off
                  7 SWB-40 <48> 82 Allowed 0000 Off
                Results for SWB-40 category i on drive 82 No commands blocked (0 of 8)
                  0 SWB-40 <01> 83 Allowed 0000 Off \hspace{1cm} 1 GetLastStatus
                                                       1 VerifySectors
1 ReadDriveParms
                  1 SWB-40 <04> 83 Allowed 0000 Off
                  2 SWB-40 <08> 83 Allowed 0000 Off
                  3 SWB-40 <10> 83 Allowed 0000 Off
                                                       1 TestDriveReady
                                                       1 ReadDriveType
                  4 SWB-40 <15> 83 Allowed 0000 Off
                  5 SWB-40 <41> 83 Allowed 0000 Off
                                                        1 CheckForExtensions
                                                       1 VerifySectors
                  6 SWB-40 <44> 83 Allowed 0000 Off
                  7 SWB-40 <48> 83 Allowed 0000 Off
                                                       1 GetDriveParms
                Results for SWB-40 category i on drive 83 No commands blocked (0 of 8)
                Summary: 32 sent, 0 blocked, 32 not blocked
                  0 SWB-40 <02> 80 Allowed 0000 Off
                                                        1 ReadSectors
                  1 SWB-40 <0A> 80 Allowed 0000 Off
                                                        1
                                                           ReadLong
                  2 SWB-40 <42> 80 Allowed 0000 Off
                                                        1 ExtRead
                Results for SWB-40 category r on drive 80 No commands blocked (0 of 3)
                  1 SWB-40 <0A> 81 Allowed 0000 Off
                  2 SWB-40 <42> 81 Allowed 0000 Off
                                                        1 ExtRead
```

```
Case SWB-40 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
               Results for SWB-40 category r on drive 81 No commands blocked (0 of 3)
                  0 SWB-40 <02> 82 Allowed 0000 Off
                                                      1 ReadSectors
                                                       1 ReadLong
                  1 SWB-40 <0A> 82 Allowed 0000 Off
                  2 SWB-40 <42> 82 Allowed 0000 Off
                                                       1 ExtRead
               Results for SWB-40 category r on drive 82 No commands blocked (0 of 3)
                  0 SWB-40 <02> 83 Allowed 0000 Off 1 ReadSectors
                  1 SWB-40 <0A> 83 Allowed 0000 Off
                                                       1 ReadLong
                                                       1 ExtRead
                  2 SWB-40 <42> 83 Allowed 0000 Off
                Results for SWB-40 category r on drive 83 No commands blocked (0 of 3)
                Summary: 12 sent, 0 blocked, 12 not blocked
                  0 SWB-40 <03> 80 Blocked 0000 Off
                                                       0 WriteSectors
                  1 SWB-40 <0B> 80 Blocked 0000 Off
                                                      0 WriteLong
                  2 SWB-40 <43> 80 Blocked 0000 Off
                                                       0 ExtWrite
               Results for SWB-40 category w on drive 80 All commands blocked (3 of 3)
                  0 SWB-40 <03> 81 Blocked 0000 Off 0 WriteSectors
                  1 SWB-40 <0B> 81 Blocked 0000 Off
                                                       0 WriteLong
                  2 SWB-40 <43> 81 Blocked 0000 Off
                                                      0 ExtWrite
               Results for SWB-40 category w on drive 81 All commands blocked (3 of 3)
                  0 SWB-40 <03> 82 Allowed 0000 Off 2 WriteSectors
                  1 SWB-40 <0B> 82 Allowed 0000 Off
                                                       2 WriteLong
                  2 SWB-40 <43> 82 Allowed 0000 Off
                                                       2 ExtWrite
                Results for SWB-40 category w on drive 82 No commands blocked (0 of 3)
                  0 SWB-40 <03> 83 Allowed 0000 Off 2 WriteSectors
                  1 SWB-40 <0B> 83 Allowed 0000 Off
                                                       2 WriteLong
                  2 SWB-40 <43> 83 Allowed 0000 Off
                                                       2 ExtWrite
                Results for SWB-40 category w on drive 83 No commands blocked (0 of 3)
                Summary: 12 sent, 6 blocked, 6 not blocked
                  0 SWB-40 <05> 80 Blocked 0000 Off
                                                       0 FormatTrack
                  1 SWB-40 <06> 80 Blocked 0000 Off
                                                       0 FormatBadSectors
                  2 SWB-40 <07> 80 Blocked 0000 Off
                                                       0 FormatCvl
                  3 SWB-40 <09> 80 Allowed 0000 Off
                                                      1 InitDriveParms
                                                      1 DiagnosticESDI
                  4 SWB-40 <0E> 80 Allowed 0000 Off
                  5 SWB-40 <0F> 80 Blocked 0000 Off
                                                       0 DiagnosticESDI
                  6 SWB-40 <12> 80 Allowed 0000 Off
                                                       1 DiagnosticRAM
                  7 SWB-40 <13> 80 Blocked 0000 Off
                                                       0 DiagnosticDrive
                                                       1 DiagnosticCTL
                  8 SWB-40 <14> 80 Allowed 0000 Off
                Results for SWB-40 category x on drive 80 Not all commands blocked (5 of
                  0 SWB-40 <05> 81 Blocked 0000 Off
                                                       0 FormatTrack
                  1 SWB-40 <06> 81 Blocked 0000 Off
                                                       0 FormatBadSectors
                                                       0 FormatCyl
                  2 SWB-40 <07> 81 Blocked 0000 Off
                  3 SWB-40 <09> 81 Allowed 0000 Off
                                                      1 InitDriveParms
                                                       1 DiagnosticESDI
                  4 SWB-40 <0E> 81 Allowed 0000 Off
                                                       0 DiagnosticESDI
                  5 SWB-40 <0F> 81 Blocked 0000 Off
                  6 SWB-40 <12> 81 Allowed 0000 Off
                                                      1 DiagnosticRAM
                  7 SWB-40 <13> 81 Blocked 0000 Off
                                                      0 DiagnosticDrive
                  8 SWB-40 <14> 81 Allowed 0000 Off
                                                       1 DiagnosticCTL
                Results for SWB-40 category x on drive 81 Not all commands blocked (5 of
                                                       1 FormatTrack
                  0 SWB-40 <05> 82 Allowed 0000 Off
                  1 SWB-40 <06> 82 Allowed 0000 Off
                                                       1
                                                          FormatBadSectors
                  2 SWB-40 <07> 82 Allowed 0000 Off
                                                      1 FormatCvl
                  3 SWB-40 <09> 82 Allowed 0000 Off
                                                      1 InitDriveParms
                                                       1 DiagnosticESDI
1 DiagnosticESDI
                  4 SWB-40 <0E> 82 Allowed 0000 Off
                  5 SWB-40 <0F> 82 Allowed 0000 Off
                  6 SWB-40 <12> 82 Allowed 0000 Off
                                                      1 DiagnosticRAM
                  7 SWB-40 <13> 82 Allowed 0000 Off
                                                       1 DiagnosticDrive
                  8 SWB-40 <14> 82 Allowed 0000 Off
                                                       1 DiagnosticCTL
               Results for SWB-40 category x on drive 82 No commands blocked (0 of 9)
                  0 SWB-40 <05> 83 Allowed 0000 Off \, 1 FormatTrack
                                                       1 FormatBadSectors
1 FormatCyl
                  1 SWB-40 <06> 83 Allowed 0000 Off
                  2 SWB-40 <07> 83 Allowed 0000 Off
                  3 SWB-40 <09> 83 Allowed 0000 Off
                                                      1 InitDriveParms
                                                      1 DiagnosticESDI
                  4 SWB-40 <0E> 83 Allowed 0000 Off
                  5 SWB-40 <0F> 83 Allowed 0000 Off
                                                       1 DiagnosticESDI
                                                      1 DiagnosticRAM
                  6 SWB-40 <12> 83 Allowed 0000 Off
                  7 SWB-40 <13> 83 Allowed 0000 Off
                                                      1 DiagnosticDrive
                  8 SWB-40 <14> 83 Allowed 0000 Off
                                                       1 DiagnosticCTL
               Results for SWB-40 category x on drive 83 No commands blocked (0 of 9)
                Summary: 36 sent, 10 blocked, 26 not blocked
```

```
Case SWB-40 HDL -- Hard-Disk (Int_13) Write Lock V0.5 971202 (C)GKH 1993,1994,1997
                    0 SWB-40 <16> 80 Allowed 0000 Off
                                                           1 Undefined
                           . . .
                           misc commands 17-FD results omitted
                           see log files for full results
                 226 SWB-40 <FE> 80 Allowed 0000 Off 1 Undefined 227 SWB-40 <FF> 80 Allowed 0000 Off 1 Undefined
                 Results for SWB-40 category m on drive 80 Not all commands blocked (2 of
                   0 SWB-40 <16> 81 Allowed 0000 Off
                                                           1 Undefined
                           misc commands 17-FD results omitted
                           see log files for full results
                 226 SWB-40 <FE> 81 Allowed 0000 Off 1 Undefined 227 SWB-40 <FF> 81 Allowed 0000 Off 1 Undefined
                 Results for SWB-40 category m on drive 81 Not all commands blocked (2 of
                 228)
                   0 SWB-40 <16> 82 Allowed 0000 Off
                           misc commands 17-FD results omitted
                           see log files for full results
                 226 SWB-40 <FE> 82 Allowed 0000 Off 1 Undefined 227 SWB-40 <FF> 82 Allowed 0000 Off 1 Undefined
                 Results for SWB-40 category m on drive 82 No commands blocked (0 of 228)
                   0 SWB-40 <16> 83 Allowed 0000 Off 1 Undefined
                           misc commands 17-FD results omitted
                           see log files for full results
                                                          1 Undefined
                  226 SWB-40 <FE> 83 Allowed 0000 Off
                 227 SWB-40 <FF> 83 Allowed 0000 Off
                                                            1 Undefined
                 Results for SWB-40 category m on drive 83 No commands blocked (0 of 228)
                 Summary: 912 sent, 4 blocked, 908 not blocked
Results:
                  Assertion Expected Results
                                                             Actual Results
                  AM-07
                               Tool active message
                                                             Tool active message
                               4 drives identified
                                                             4 drives identified
                   AM-08
                  AM-09
                               Drive 80 is protected
                                                             Drive 80 is protected
                              Drive 81 is protected
                                                             Drive 81 is protected
                  AM-09
                  AM-09
                               Drive 82 is unprotected
                                                             Drive 82 is unprotected
                  AM-09
                               Drive 83 is unprotected
                                                             Drive 83 is unprotected
                  AM-10
                               20 Commands return
                                                             20 Commands return success
                               success
                  AO-09
                               SWB not removed
                                                             H-D Write Lock now non-
                                                             removable!
Analysis:
                 SWB-40 Expected results achieved
```

About the National Institute of Justice

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

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

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NIJ has seven strategic goals grouped into three categories:

Creating relevant knowledge and tools

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

Dissemination

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

Agency management

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

Program Areas

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

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

To find out more about the National Institute of Justice, please contact:

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