



**NIJ**

Special

**REPORT**

**Test Results for Software Write Block  
Tools: PDBLOCK Version 2.00**

**U.S. Department of Justice  
Office of Justice Programs**

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Block Tools: PDBLOCK Version 2.00**



**Sarah V. Hart**

*Director*

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**National Institute of Standards and Technology**  
Technology Administration, U.S. Department of Commerce

# Contents

- Introduction.....3**
- Test Results for Software Write Block Tools .....4**
  - 1.0 Results Summary by Requirements ..... 4
  - 2.0 Anomalies ..... 4
  - 3.0 Test Case Selection ..... 5
  - 4.0 Test Results by Assertion..... 5
    - 4.1 Mandatory Assertions ..... 5
    - 4.2 Optional Assertions..... 8
  - 5.0 Testing Environment..... 9
    - 5.1 Test Computers ..... 10
    - 5.2 Hard Disk Drives ..... 10
    - 5.3 Support Software ..... 12
    - 5.4 Run Protocol Selection ..... 13
  - 6.0 Interpretation of Test Results..... 13
    - 6.1 Test Assertion Verification ..... 14
    - 6.2 Test Results Summary Key..... 17
  - 7.0 Test Results Summaries ..... 20

## Introduction

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

Test results provide the information necessary for developers to improve tools, users to make informed choices, and the legal community and others to understand the tools' capabilities. The approach for 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](#) for both comment and review by the computer forensics community.

This document reports the results from testing PDBLOCK Version 2.00 against [Software Write Block Tool Specification & Test Plan Version 3.0](#), available on ([CFTT's Website](#)). This specification identifies the following top-level tool requirements:

- 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 for Software Write Block Tools

Tool Tested: PDBLOCK VERSION 2.00 © 1999 DIGITAL INTELLIGENCE, INC.

Operating System: MS-DOS® (Windows® 98 DOS)<sup>1</sup> Version 4.10.2222

Supplier: Digital Intelligence, Inc.  
1325 Pearl Street  
Waukesha, WI 53186  
262-524-9363  
<http://www.digitalintelligence.com>

## 1.0 Results Summary by Requirements

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

For all test cases run, the tool always blocked all write commands sent to a protected drive. 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 all commands from the write category sent to a protected drive. However, the tool did not block some commands from the configuration and miscellaneous categories that are either undefined (invalid) or outmoded and not routinely used by current software. These commands in current BIOS implementations do not write to a hard drive, but in the future they could be defined such that they would change the contents or accessibility of a protected drive. In the test specification, these commands are therefore included in categories that should be blocked.

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<sup>1</sup> MS-DOS and Windows are registered trademarks of Microsoft Corporation.



The tool did not block five commands in the configuration category: Initialize Drive Parameters (0x09), PS/2 ESDI Diagnostic (0x0E), PC/XT Controller Ram Diagnostic (0x12), the controller drive diagnostic command (0x13), and Controller Internal Diagnostic (0x14). These commands are rarely used, if at all. The tool only blocked three commands in the miscellaneous category (command codes 0x1A, 0x22, and 0xED). Command code 0xED is always blocked with a return code of *fail* (0x0100), regardless of the setting of the */fail* command line option.

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

Although PDBLOCK Version 2.00 always protects drives from write commands, it does not report the accessible drives. Therefore it does not meet the SWB-RM-04 requirement from *Software Write Block Tool Specification & Test Plan Version 3.0*: The tool shall report all drives accessible by the covered interfaces.

Test cases: All.

### 3.0 Test Case Selection

The test cases were selected from *Software Write Block Tool Specification & Test Plan Version 3.0*. All 40 test cases listed in the specification were applied to PDBLOCK Version 2.00.

### 4.0 Test Results by Assertion

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

#### 4.1 Mandatory Assertions

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

Each command in the write category was sent to all protected drives. PDBLOCK Version 2.00 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 five commands, PDBLOCK Version 2.00 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), the controller drive diagnostic command (0x13), and Controller Internal Diagnostic (0x14).

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. PDBLOCK Version 2.00 only blocked three of the commands sent from the miscellaneous category to a protected drive. Command codes 0x1A, 0x22, and 0xED were blocked; all other command codes were allowed. [Table 4-1](#) contains an extract of the relevant information from the SWB-06 test case log file. Command code 0xED is always blocked with a return code of *fail* (0x0100) regardless of the setting of the */fail* command line option.

**Table 4-1 Extract from Test Case SWB-06 Test Log**

| Case | Cmd    | Drv  | Action | Stat    | Cry  | Count | Cmd Name    |
|------|--------|------|--------|---------|------|-------|-------------|
| 3    | SWB-06 | <19> | 80     | Allowed | 0000 | Off   | 1 Undefined |
| 4    | SWB-06 | <1A> | 80     | Blocked | 0000 | Off   | 0 Undefined |
| 5    | SWB-06 | <1B> | 80     | Allowed | 0000 | Off   | 1 Undefined |
| 11   | SWB-06 | <21> | 80     | Allowed | 0000 | Off   | 1 Undefined |
| 12   | SWB-06 | <22> | 80     | Blocked | 0000 | Off   | 0 Undefined |
| 13   | SWB-06 | <23> | 80     | Allowed | 0000 | Off   | 1 Undefined |
| 208  | SWB-06 | <EC> | 80     | Allowed | 0000 | Off   | 1 Undefined |
| 209  | SWB-06 | <ED> | 80     | Blocked | 0100 | On    | 0 Undefined |
| 210  | SWB-06 | <EE> | 80     | Allowed | 0000 | Off   | 1 Undefined |

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. PDBLOCK Version 2.00 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. PDBLOCK Version 2.00 never blocked any commands sent from the control category.

**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. PDBLOCK Version 2.00 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.**

PDBLOCK Version 2.00 always issued the message `PDBlock Version 2.00` 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.**

PDBLOCK Version 2.00 does not identify the accessible drives with a message.

**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.**

PDBLOCK Version 2.00 always issued the message `Drives Protected: [list]` to indicate the protection status of each drive; “[list]” identifies the protected drives.

**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.**

When PDBLOCK Version 2.00 was configured to return *success* on blocked commands, except for command code 0xED, all blocked commands returned *success*. Command 0xED is always blocked and the return code is always 0x0100 (invalid command). See [Table 4-1](#), a log file extract from test case SWB-06, and note that line 209 (result for the 0xED command) returns error 0x0100.

Test cases: SWB-06, SWB-18, and SWB-40.

**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.**

When PDBLOCK Version 2.00 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, PDBLOCK Version 2.00 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, PDBLOCK Version 2.00 blocked every command (with the exception of five) sent from the configuration category to a protected drive. The tool does not block the following commands: the Initialize Drive Parameters (0x09), PS/2 ESDI Diagnostic (0x0E), PC/XT Controller Ram Diagnostic (0x12), the controller drive diagnostic command (0x13), and Controller Internal Diagnostic (0x14).

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, PDBLOCK Version 2.00 only blocked three of the commands sent from the miscellaneous category to a protected drive. Command codes 0x1A, 0x22, and 0xED were blocked; all other command codes were allowed.

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, PDBLOCK Version 2.00 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, PDBLOCK Version 2.00 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, PDBLOCK Version 2.00 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, PDBLOCK Version 2.00 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 PDBLOCK Version 2.00 and started from the AUTOEXEC.BAT file. Each command in the write category was sent to every protected drive to show that the tool was active. Finally, the system was shutdown. A SHA1<sup>2</sup> hash value was then computed and compared with a SHA1 hash value computed before the test for each drive used in the test to ensure that nothing was written to the disks after the harness was no longer active. 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 one exception, when the tool was activated and then deactivated and commands in all categories were sent to each protected drive, PDBLOCK Version 2.00 never blocked any commands sent. The exception is command code 0xED. This command code is always blocked.

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

PDBLOCK Version 2.00 always indicated a blocked command with an audible signal.

## 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

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<sup>2</sup> The Secure Hash Algorithm (SHA1), developed by NIST and the National Security Agency for use with the Digital Signature Standard, is specified in *Secure Hash Standard* (FIPS Publication 180) (National Institute of Standards and Technology, May 1993).

host computers were used for execution of test cases: HecRamsey, McCloud, McMillan, AndWife, Cadfael, Rumpole, Wimsey, and JudgeDee. Eight 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 following hardware components in common:

**Table 5–1 Extended BIOS Host Computer Hardware Components**

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

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

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

**Table 5–2 Alternate Extended BIOS Host Computer Hardware Components**

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

## 5.2 Hard Disk Drives

The hard disk drives that were used are 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 were installed in HecRamsey, McCloud, McMillan, AndWife, 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 **Label** column is an external identification for the hard drive. The **Model** column is the model identification string obtained from the drive. The **Interface** column identifies the type of interface used to connect the drive to the computer. The **Usable Sectors** column documents the size of the drive in sectors. The **GB** column gives the size of the drive in gigabytes.

**Table 5–3 Hard Drives Used in Testing**

| Label | Model                    | Interface | Usable Sectors | GB    |
|-------|--------------------------|-----------|----------------|-------|
| 1F    | QUANTUM_ATLAS10K3_18_SCA | SCSI      | 35916547       | 18.38 |
| 2B    | QUANTUM_QM39100TD-SCA    | SCSI      | 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 were set up in a variety of ways with the common partition types (FAT16, FAT32, FAT32X, NTFS, and Linux ext2) represented. The setup of each drive is documented in [Table 5–4](#). The **Drive Label** column is an external identification for the hard drive. The **Partition Table** column describes the partition table for the drive. Under **Partition Table**, the **N** subcolumn is a sequence number. The unlabeled subcolumn identifies a primary partition (P), primary extended partition (X), secondary partition within an extended partition (S), or extended partition within an extended partition (x). The **Start LBA** subcolumn is the starting logical block address (LBA) of the partition. The **Length** subcolumn is the length of the partition in sectors. The **boot** subcolumn indicates the boot partition. The **Partition type** subcolumn contains the two-digit hexadecimal partition type code and the name of the partition type for common partition types.

**Table 5–4 Drive Partition Setup**

| Drive Label | Partition Table    |                  |               |             |                       |
|-------------|--------------------|------------------|---------------|-------------|-----------------------|
| 1F          | <b>N</b>           | <b>Start LBA</b> | <b>Length</b> | <b>boot</b> | <b>Partition type</b> |
|             | 1                  | P                | 000000063     | 001236942   | Boot 0B Fat32         |
|             | 2                  | X                | 001429785     | 033865020   | 0F extended           |
|             | 3                  | S                | 000000063     | 000208782   | 83 Linux              |
|             | 4                  | x                | 000208845     | 000144585   | 05 extended           |
|             | 5                  | S                | 000000063     | 000144522   | 0B Fat32              |
|             | 6                  | x                | 000771120     | 000192780   | 05 extended           |
|             | 7                  | S                | 000000063     | 000192717   | 16 other              |
|             | 8                  | S                | 000000000     | 000000000   | 00 empty entry        |
| 9           | P                  | 035294805        | 000064260     | 83 Linux    |                       |
| 2B          | No partition table |                  |               |             |                       |
| 64          | No partition table |                  |               |             |                       |
| 6F          | No partition table |                  |               |             |                       |
| 8A          | No partition table |                  |               |             |                       |
| 90          | No partition table |                  |               |             |                       |
| E4          | <b>N</b>           | <b>Start LBA</b> | <b>Length</b> | <b>boot</b> | <b>Partition type</b> |
|             | 1                  | P                | 000000063     | 006152832   | Boot 0B Fat32         |
|             | 2                  | X                | 008193150     | 009735390   | 0F extended           |

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

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

**Table 5-5 Drive SHA1 Values Before Testing**

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

**Table 5-6 Drive SHA1 Values After Testing**

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

### 5.3 Support Software

Software Write Block Test Harness (SWBT) Release 1.0 was developed to support the testing of interrupt 0x13-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 [CFTT's Web site](#). The support software has components to monitor interrupt 0x13 activity (TALLY13.COM) and to issue each of the 256 possible interrupt 0x13 commands (TEST-HDL.EXE). The TEST-HDL program was written in ANSI C and compiled with the Borland C++ compiler Version 4.5. The TALLY13 program was written in assembler language and compiled with Borland Turbo Assembler Version 5.0.

The programs listed in [Table 5-7](#) are required for testing.

**Table 5-7 Software Required for Testing**

| <b>Program</b> | <b>Description</b>   |
|----------------|--|
| SWB Tool       | The software write block tool to be tested.  |
| TALLY13        | The interrupt 0x13 monitor program. The monitor program blocks all interrupt 0x13 command functions, counts the number of times each function is requested for each drive, and provides an interface for retrieving the count of the number of times each command function was requested for each drive. |
| TEST-HDL       | The test harness issues (requests) all interrupt 0x13 command functions for a specified command category, queries the monitor program to determine if the function was blocked or allowed, and logs the results to a file.   |
| T-OFF          | Deactivate TALLY13.  |
| SIG-LOG        | Log operator's observations of an audible or visual signal indicating blocked commands.  |

## 5.4 Run Protocol Selection

Most test cases followed the same test procedures; four, however, required a different run protocol. The details of the run protocols can be found in *Software Write Block Tool Specification & Test Plan Version 3.0*. Three protocols were used to test PDBLOCK Version 2.00: **typical**, **boot**, and **uninstall**.

The **typical** protocol was used for test cases 01-36, the **boot** protocol was used for test cases 37 and 38, and the **uninstall** protocol was used for cases 39 and 40.

## 6.0 Interpretation of Test Results

The main item of interest for interpreting the test results is determining 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. Conformance of each assertion tested by a given test case is evaluated by examining the Commands Executed and Log File Highlights boxes of the test report summary. The Log File Highlights box contains extracts from each of the log files generated for a test case.

## 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK command line in the Commands Executed box. The Test Harness Log section of the Log File Highlights box 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 PDBLOCK Log indicates that the tool is active, then 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.**

PDBLOCK Version 2.00 does not conform to this test assertion because it does not issue a message indicating all accessible drives.

**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.**

If drive **N** is listed on the PDBLOCK command line and the Install PDBLOCK log reports drive **N** as locked, then the test case conforms to the test assertion. The string **all** may also be used to indicate all drives are protected.

**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.**

PDBLOCK Version 2.00 is configured to return *success* on blocked commands by default unless the */fail* flag is used on the PDBLOCK 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.**

PDBLOCK Version 2.00 is configured to return *fail* on blocked commands if the */fail* flag is used on the PDBLOCK command line. The return value of blocked commands is *fail* if in the Test Harness Log the value of the Stat column is either *0100* or *0300* and the value of the Cry column is *on*.

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

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

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

The protected drives are identified on the PDBLOCK 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 deactivates successfully, then all commands are allowed to all drives. If the tool does not deactivate, then no change occurs to the protection status of the drives.

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

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

The signal log in the Log File Highlights box records the test operator's observations of either an audible or visual signal by the tool being tested to indicate a blocked command. If any commands are blocked, a value of *y* indicates that a signal was observed and that the tool conforms to the assertion.

## **6.2 Test Results Summary Key**

A summary of the actual test results is presented in this report (see 7.0 Test Results Summaries). The following table presents a description of each section of the test report summary.

**Table 6–1 Description of Test Report Summary**

| <b>Heading</b>      | <b>Description</b>   |
|---------------------|--|
| First Line          | Test case ID and the name and version of the software tested.  |
| Case Summary        | Test case summary from <i>Software Write Block Tool Specification &amp; Test Plan Version 3.0</i> .  |
| Assertions Tested   | Assertions tested by the test case from <i>Software Write Block Tool Specification &amp; Test Plan Version 3.0</i> .   |
| Tester Name         | Name or initials of the person executing the test procedure.   |
| Test Date           | Time and date that the test was started.   |
| Test PC             | Name of the computer used to execute the tool.   |
| Test Software       | Name and version of the test software.   |
| Hard Drives Used    | Description of the hard drives used in the test.   |
| Commands Executed   | <p>Documentation of each command executed during the test.</p> <p>The protected drives are identified on the PDBLOCK command line. PDBLOCK Version 2.00 identifies the drives starting at 0.</p>   |
| Log File Highlights | <p>Selected entries from the test case log files. Four log files may appear. The log file created for TALLY13 is labeled <i>Monitor Execution</i>. The log file created for PDBLOCK Version 2.00 is labeled <i>Install PDBLOCK Log</i>. The log file created by TEST–HDL is labeled <i>Test Harness Log</i>. The log file created by SIG–LOG is labeled <i>Signal Log</i>.</p> <p>For test cases SWB–39 and SWB–40, there are two separate logs for PDBLOCK Version 2.00 and also for TEST–HDL because these cases require execution of PDBLOCK twice.</p> <p>The monitor execution log file records the program version and the date that the TALLY13 program was executed.</p> <p>The PDBLOCK log file is obtained by output redirection of the execution of PDBLOCK Version 2.00. The log file contains the version of PDBLOCK used, the number of drives identified, and the protection status of each drive. The test harness log is the record of commands sent to PDBLOCK Version 2.00 and the action taken by PDBLOCK to either block or allow each command sent. The format of the file is as follows:</p> <ol style="list-style-type: none"> <li>1. Command line. The command line used to execute TEST–HDL. This line begins with the string CMD.</li> <li>2. Case number.</li> <li>3. Interrupt 0x13 functions. The category of interrupt 0x13 functions tested by this case.</li> </ol> |

| Heading  | Description   |
|----------|---|
|          | <p>4. Date.</p> <p>5. Version. Version information about TEST-HDL and components. The creation date, creation time, and version of each source code component are listed. The compile time and date for the executable program are listed.</p> <p>6. Operator. The operator running the test.</p> <p>7. Host. The host computer running the test.</p> <p>8. Drives. The number of drives and the external drive label for each drive.</p> <p>Items 9 and 10 are repeated for each installed drive.</p> <p>9. List of commands sent. Each line of the list has nine columns: sequence number, test case number, command code in hex (Cmd), drive number in hex (Drv), action taken by PDBLOCK Version 2.00 (either <i>Blocked</i> or <i>Allowed</i>), return status (<i>0000</i> means success, <i>0300</i> or <i>0100</i> means fail), carry flag value (labeled Cry 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 PDBLOCK Version 2.00, and the command name (or undefined for commands in the miscellaneous category).</p> <p>10. Summary of commands for the drive. The message indicates the number of commands blocked out of the number of commands sent.</p> <p>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).</p> <p>The signal log records the test operator's observations of either an audible or visual signal by the tool being tested to indicate a blocked command. A value of <i>y</i> indicates that the operator observed a signal. A value of <i>n</i> indicates that no signal was observed.</p> |
| 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 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-01 Install all drives, configure return code to failure, protect all drives, execute write commands.   |
| Assertions Tested:               | <p>SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:00:44 2004   |
| Test PC:                         | McCloud  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock all /fail test-hdl SWB-01 McCloud PEB w 90 F6 6F 1F 2B Shutdown Test PC           </pre>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 11:57:53) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: ALL Return Code:      FAILURE Bell:             ON Message:         ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-01 McCloud PEB w 90 F6 6F 1F 2B Case: SWB-01 Command set: Write Date: Thu Jan 22 12:00:44 2004  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: PEB Host: McCloud Number of drives 5, Drives: 90 F6 6F 1F 2B    Case  Cmd  Drv  Action  Stat  Cry  Count  Cmd Name    0 SWB-01 &lt;03&gt; 80 Blocked 0300 On    0  WriteSectors    1 SWB-01 &lt;0B&gt; 80 Blocked 0300 On    0  WriteLong    2 SWB-01 &lt;43&gt; 80 Blocked 0300 On    0  ExtWrite Results for SWB-01 category w on drive 80 All commands blocked (3 of 3)    0 SWB-01 &lt;03&gt; 81 Blocked 0300 On    0  WriteSectors    1 SWB-01 &lt;0B&gt; 81 Blocked 0300 On    0  WriteLong    2 SWB-01 &lt;43&gt; 81 Blocked 0300 On    0  ExtWrite           </pre> |



| Case SWB-01 PDBlock Version 2.00 |  |                              |                              |
|----------------------------------|--|------------------------------|------------------------------|
|                                  | Results for SWB-01 category w on drive 81 All commands blocked (3 of 3)<br>0 SWB-01 <03> 82 Blocked 0300 On 0 WriteSectors<br>1 SWB-01 <0B> 82 Blocked 0300 On 0 WriteLong<br>2 SWB-01 <43> 82 Blocked 0300 On 0 ExtWrite<br>Results for SWB-01 category w on drive 82 All commands blocked (3 of 3)<br>0 SWB-01 <03> 83 Blocked 0300 On 0 WriteSectors<br>1 SWB-01 <0B> 83 Blocked 0300 On 0 WriteLong<br>2 SWB-01 <43> 83 Blocked 0300 On 0 ExtWrite<br>Results for SWB-01 category w on drive 83 All commands blocked (3 of 3)<br>0 SWB-01 <03> 84 Blocked 0300 On 0 WriteSectors<br>1 SWB-01 <0B> 84 Blocked 0300 On 0 WriteLong<br>2 SWB-01 <43> 84 Blocked 0300 On 0 ExtWrite<br>Results for SWB-01 category w on drive 84 All commands blocked (3 of 3)<br>Summary: 15 sent, 15 blocked, 0 not blocked<br><br>***** Signal Log *****<br>SIGNAL: y |                              |                              |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>      | <b>Actual Results</b>        |
|                                  | AM-01  | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
|                                  | AM-01  | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
|                                  | AM-01  | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
|                                  | AM-01  | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
|                                  | AM-01  | All cmds to drive 84 blocked | All cmds to drive 84 blocked |
|                                  | AM-07  | Tool active message          | Tool active message          |
|                                  | AM-08  | 5 drives identified          | No drives identified         |
|                                  | AM-09  | Drive 80 is protected        | Drive 80 is protected        |
|                                  | AM-09  | Drive 81 is protected        | Drive 81 is protected        |
|                                  | AM-09  | Drive 82 is protected        | Drive 82 is protected        |
|                                  | AM-09  | Drive 83 is protected        | Drive 83 is protected        |
|                                  | AM-09  | Drive 84 is protected        | Drive 84 is protected        |
|                                  | AM-11  | 15 Commands return fail      | 15 Commands return fail      |
|                                  | AO-10  | Signal observed              | Signal observed              |
| Analysis:                        | SWB-01 Expected results not achieved for assertions: AM-08   |                              |                              |

| Case SWB-02 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-02 Install two drives, configure return code to success, protect all drives, execute write commands.   |
| Assertions Tested:               | SWB-AM-01. If a drive is protected and a command from the write category is issued for the protected drive then the tool shall block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | JRL  |
| Test Date:                       | Thu Jan 22 12:39:47 2004   |
| Test PC:                         | HecRamsey  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 01<br>test-hdl SWB-02 HecRamsey JRL w 8A E4<br>Shutdown Test PC  |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17   |

| Case SWB-02 PDBlock Version 2.00 |   |                              |                  |                |       |                              |                              |       |                              |                              |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                           |                           |       |                 |                 |  |
|----------------------------------|---|------------------------------|------------------|----------------|-------|------------------------------|------------------------------|-------|------------------------------|------------------------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|---------------------------|---------------------------|-------|-----------------|-----------------|--|
|                                  | <pre>@(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:31:27) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code:      SUCCESS Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-02 HecRamsey JRL w 8A E4 Case: SWB-02 Command set: Write Date: Thu Jan 22 12:39:47 2004  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: HecRamsey Number of drives 2, Drives: 8A E4   Case Cmd Drv Action  Stat Cry Count Cmd Name   0 SWB-02 &lt;03&gt; 80 Blocked 0000 Off    0 WriteSectors   1 SWB-02 &lt;0B&gt; 80 Blocked 0000 Off    0 WriteLong   2 SWB-02 &lt;43&gt; 80 Blocked 0000 Off    0 ExtWrite Results for SWB-02 category w on drive 80 All commands blocked (3 of 3)   0 SWB-02 &lt;03&gt; 81 Blocked 0000 Off    0 WriteSectors   1 SWB-02 &lt;0B&gt; 81 Blocked 0000 Off    0 WriteLong   2 SWB-02 &lt;43&gt; 81 Blocked 0000 Off    0 ExtWrite Results for SWB-02 category w on drive 81 All commands blocked (3 of 3) Summary: 6 sent, 6 blocked, 0 not blocked  ***** Signal Log ***** SIGNAL: y</pre> |                              |                  |                |       |                              |                              |       |                              |                              |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                           |                           |       |                 |                 |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-01</td> <td>All cmds to drive 80 blocked</td> <td>All cmds to drive 80 blocked</td> </tr> <tr> <td>AM-01</td> <td>All cmds to drive 81 blocked</td> <td>All cmds to drive 81 blocked</td> </tr> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>2 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is protected</td> <td>Drive 81 is protected</td> </tr> <tr> <td>AM-10</td> <td>6 Commands return success</td> <td>6 Commands return success</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>  | 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 | No 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 | AO-10 | Signal observed | Signal observed |  |
| 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   | No 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    |                  |                |       |                              |                              |       |                              |                              |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                           |                           |       |                 |                 |  |
| AO-10                            | Signal observed   | Signal observed              |                  |                |       |                              |                              |       |                              |                              |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                           |                           |       |                 |                 |  |
| Analysis:                        | SWB-02 Expected results not achieved for assertions: AM-08  |                              |                  |                |       |                              |                              |       |                              |                              |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                           |                           |       |                 |                 |  |

| Case SWB-03 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-03 Install one drive, configure return code to failure, protect all drives, execute configuration commands.  |
| Assertions Tested:               | <p>SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:26:41 2004   |
| Test PC:                         | Wimsey   |
| Test Software:                   | SWBT 1.0   |
| Hard Drives                      | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors   |

| Case SWB-03 PDBlock Version 2.00 |  |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
|----------------------------------|--|----------------------------------|------------------|----------------|-------|------------------------------|----------------------------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|------------------------|------------------------|-------|-----------------|-----------------|--|--|
| Used:                            |  |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 0 /fail<br>test-hdl SWB-03 Wimsey PEB x 64<br>Shutdown Test PC   |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:24:20) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-03 Wimsey PEB x 64 Case: SWB-03 Command set: Configure Date: Thu Jan 22 12:26:41 2004  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: PEB Host: Wimsey Number of drives 1, Drives: 64       Case Cmd Drv Action  Stat Cry Count  Cmd Name 0 SWB-03 &lt;05&gt; 80 Blocked 0300 On      0  FormatTrack 1 SWB-03 &lt;06&gt; 80 Blocked 0300 On      0  FormatBadSectors 2 SWB-03 &lt;07&gt; 80 Blocked 0300 On      0  FormatCyl 3 SWB-03 &lt;09&gt; 80 Allowed 0000 Off     1  InitDriveParms 4 SWB-03 &lt;0E&gt; 80 Allowed 0000 Off     1  DiagnosticESDI 5 SWB-03 &lt;0F&gt; 80 Blocked 0300 On      0  DiagnosticESDI 6 SWB-03 &lt;12&gt; 80 Allowed 0000 Off     1  DiagnosticRAM 7 SWB-03 &lt;13&gt; 80 Allowed 0000 Off     1  DiagnosticDrive 8 SWB-03 &lt;14&gt; 80 Allowed 0000 Off     1  DiagnosticCTL Results for SWB-03 category x on drive 80 Not all commands blocked (4 of 9) Summary: 9 sent, 4 blocked, 5 not blocked  ***** Signal Log ***** SIGNAL: y           </pre> |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-02</td> <td>All cmds to drive 80 blocked</td> <td>Not all cmds to drive 80 blocked</td> </tr> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>1 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-11</td> <td>4 Commands return fail</td> <td>4 Commands return fail</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>   | Assertion                        | Expected Results | Actual Results | AM-02 | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked | AM-07 | Tool active message | Tool active message | AM-08 | 1 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-11 | 4 Commands return fail | 4 Commands return fail | AO-10 | Signal observed | Signal observed |  |  |
| Assertion                        | Expected Results   | Actual Results                   |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AM-02                            | All cmds to drive 80 blocked   | Not all cmds to drive 80 blocked |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AM-07                            | Tool active message  | Tool active message              |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AM-08                            | 1 drives identified  | No drives identified             |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AM-09                            | Drive 80 is protected  | Drive 80 is protected            |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AM-11                            | 4 Commands return fail   | 4 Commands return fail           |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| AO-10                            | Signal observed  | Signal observed                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |
| Analysis:                        | SWB-03 Expected results not achieved for assertions: AM-02 AM-08   |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                        |                        |       |                 |                 |  |  |

| Case SWB-04 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-04 Install all drives, configure return code to success, protect all drives, execute configuration commands.   |
| Assertions Tested:               | SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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 |

| Case SWB-04 PDBlock Version 2.00 |   |
|----------------------------------|---|
|                                  | covered interface.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.   |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 12:11:56 2004  |
| Test PC:                         | McCloud   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors<br>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors  |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock all<br>test-hdl SWB-04 McCloud PEB x 90 F6 6F 1F 2B<br>Shutdown Test PC   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:06:47) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: ALL Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-04 McCloud PEB x 90 F6 6F 1F 2B Case: SWB-04 Command set: Configure Date: Thu Jan 22 12:11:56 2004  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: PEB Host: McCloud Number of drives 5, Drives: 90 F6 6F 1F 2B Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-04 &lt;05&gt; 80 Blocked 0000 Off 0 FormatTrack 1 SWB-04 &lt;06&gt; 80 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 &lt;07&gt; 80 Blocked 0000 Off 0 FormatCyl 3 SWB-04 &lt;09&gt; 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 &lt;0E&gt; 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 &lt;0F&gt; 80 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 &lt;12&gt; 80 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-04 &lt;13&gt; 80 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-04 &lt;14&gt; 80 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-04 category x on drive 80 Not all commands blocked (4 of 9) 0 SWB-04 &lt;05&gt; 81 Blocked 0000 Off 0 FormatTrack 1 SWB-04 &lt;06&gt; 81 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 &lt;07&gt; 81 Blocked 0000 Off 0 FormatCyl 3 SWB-04 &lt;09&gt; 81 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 &lt;0E&gt; 81 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 &lt;0F&gt; 81 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 &lt;12&gt; 81 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-04 &lt;13&gt; 81 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-04 &lt;14&gt; 81 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-04 category x on drive 81 Not all commands blocked (4 of 9) 0 SWB-04 &lt;05&gt; 82 Blocked 0000 Off 0 FormatTrack </pre> |

| Case SWB-04 PDBlock Version 2.00 |   |                              |                                  |
|----------------------------------|---|------------------------------|----------------------------------|
|                                  | <pre> 1 SWB-04 &lt;06&gt; 82 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 &lt;07&gt; 82 Blocked 0000 Off 0 FormatCyl 3 SWB-04 &lt;09&gt; 82 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 &lt;0E&gt; 82 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 &lt;0F&gt; 82 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 &lt;12&gt; 82 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-04 &lt;13&gt; 82 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-04 &lt;14&gt; 82 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-04 category x on drive 82 Not all commands blocked (4 of 9) 0 SWB-04 &lt;05&gt; 83 Blocked 0000 Off 0 FormatTrack 1 SWB-04 &lt;06&gt; 83 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 &lt;07&gt; 83 Blocked 0000 Off 0 FormatCyl 3 SWB-04 &lt;09&gt; 83 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 &lt;0E&gt; 83 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 &lt;0F&gt; 83 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 &lt;12&gt; 83 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-04 &lt;13&gt; 83 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-04 &lt;14&gt; 83 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-04 category x on drive 83 Not all commands blocked (4 of 9) 0 SWB-04 &lt;05&gt; 84 Blocked 0000 Off 0 FormatTrack 1 SWB-04 &lt;06&gt; 84 Blocked 0000 Off 0 FormatBadSectors 2 SWB-04 &lt;07&gt; 84 Blocked 0000 Off 0 FormatCyl 3 SWB-04 &lt;09&gt; 84 Allowed 0000 Off 1 InitDriveParms 4 SWB-04 &lt;0E&gt; 84 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-04 &lt;0F&gt; 84 Blocked 0000 Off 0 DiagnosticESDI 6 SWB-04 &lt;12&gt; 84 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-04 &lt;13&gt; 84 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-04 &lt;14&gt; 84 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-04 category x on drive 84 Not all commands blocked (4 of 9) Summary: 45 sent, 20 blocked, 25 not blocked  ***** Signal Log ***** SIGNAL: y </pre> |                              |                                  |
| Results:                         | <b>Assertion</b>  | <b>Expected Results</b>      | <b>Actual Results</b>            |
|                                  | AM-02   | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked |
|                                  | AM-02   | All cmds to drive 81 blocked | Not all cmds to drive 81 blocked |
|                                  | AM-02   | All cmds to drive 82 blocked | Not all cmds to drive 82 blocked |
|                                  | AM-02   | All cmds to drive 83 blocked | Not all cmds to drive 83 blocked |
|                                  | AM-02   | All cmds to drive 84 blocked | Not all cmds to drive 84 blocked |
|                                  | AM-07   | Tool active message          | Tool active message              |
|                                  | AM-08   | 5 drives identified          | No drives identified             |
|                                  | AM-09   | Drive 80 is protected        | Drive 80 is protected            |
|                                  | AM-09   | Drive 81 is protected        | Drive 81 is protected            |
|                                  | AM-09   | Drive 82 is protected        | Drive 82 is protected            |
|                                  | AM-09   | Drive 83 is protected        | Drive 83 is protected            |
|                                  | AM-09   | Drive 84 is protected        | Drive 84 is protected            |
|                                  | AM-10   | 20 Commands return success   | 20 Commands return success       |
|                                  | AO-10   | Signal observed              | Signal observed                  |
| Analysis:                        | SWB-04 Expected results not achieved for assertions: AM-02 AM-08  |                              |                                  |

| Case SWB-05 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-05 Install two drives, configure return code to failure, protect all drives, execute miscellaneous commands.  |
| Assertions Tested:               | SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message |

| Case SWB-05 PDBlock Version 2.00 |  |
|----------------------------------|--|
|                                  | <p>indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:46:43 2004   |
| Test PC:                         | HecRamsey  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 01 /fail</p> <p>test-hdl SWB-05 HecRamsey PEB m 8A E4</p> <p>Shutdown Test PC</p>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:43:57) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-05 HecRamsey PEB m 8A E4 Case: SWB-05 Command set: Misc Date: Thu Jan 22 12:46:43 2004  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: PEB Host: HecRamsey Number of drives 2, Drives: 8A E4   Case Cmd Drv Action Stat Cry Count Cmd Name   0 SWB-05 &lt;16&gt; 80 Allowed 0000 Off      1 Undefined   ...    misc commands 17-FD results omitted    see log files for full results    ...  226 SWB-05 &lt;FE&gt; 80 Allowed 0000 Off      1 Undefined 227 SWB-05 &lt;FF&gt; 80 Allowed 0000 Off      1 Undefined Results for SWB-05 category m on drive 80 Not all commands blocked (3 of 228)   0 SWB-05 &lt;16&gt; 81 Allowed 0000 Off      1 Undefined   ...    misc commands 17-FD results omitted    see log files for full results    ...  226 SWB-05 &lt;FE&gt; 81 Allowed 0000 Off      1 Undefined 227 SWB-05 &lt;FF&gt; 81 Allowed 0000 Off      1 Undefined Results for SWB-05 category m on drive 81 Not all commands blocked (3 </pre> |

| Case SWB-05 PDBlock Version 2.00 |  |  |                                  |
|----------------------------------|--|--|----------------------------------|
|                                  | of 228)<br>Summary: 456 sent, 6 blocked, 450 not blocked |  |                                  |
|                                  | ***** Signal Log *****<br>SIGNAL: y                      |  |                                  |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>  | <b>Actual Results</b>            |
|                                  | 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              |
|                                  | AM-08  | 2 drives identified  | No drives identified             |
|                                  | AM-09  | Drive 80 is protected  | Drive 80 is protected            |
|                                  | AM-09  | Drive 81 is protected  | Drive 81 is protected            |
|                                  | AM-11  | 6 Commands return fail   | 6 Commands return fail           |
|                                  | AO-10  | Signal observed  | Signal observed                  |
|                                  | Analysis:  | SWB-05 Expected results not achieved for assertions: AM-03 AM-08 |                                  |

| Case SWB-06 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-06 Install one drive, configure return code to success, protect all drives, execute miscellaneous commands.  |
| Assertions Tested:               | SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:30:11 2004   |
| Test PC:                         | Wimsey   |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 0<br>test-hdl SWB-06 Wimsey PEB m 64<br>Shutdown Test PC   |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/22/04 at 12:28:53) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code: SUCCESS<br>Bell: ON<br>Message: ON<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-06 Wimsey PEB m 64<br>Case: SWB-06<br>Command set: Misc<br>Date: Thu Jan 22 12:30:11 2004<br><br>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51<br>@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19  |

| Case SWB-06 PDBlock Version 2.00  |  |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
|---|--|----------------------------------|------------------|----------------|-------|------------------------------|----------------------------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|---------------------------|---------------------------|-------|-----------------|-----------------|--|--|
| <p>Compiled on Aug 31 2003 at 08:10:54</p> <p>Operator: PEB<br/>Host: Wimsey<br/>Number of drives 1, Drives: 64</p> <pre> Case  Cmd Drv Action  Stat Cry Count  Cmd Name 0 SWB-06 &lt;16&gt; 80 Allowed 0000 Off      1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-06 &lt;FE&gt; 80 Allowed 0000 Off      1 Undefined 227 SWB-06 &lt;FF&gt; 80 Allowed 0000 Off      1 Undefined Results for SWB-06 category m on drive 80 Not all commands blocked (3 of 228) Summary: 228 sent, 3 blocked, 225 not blocked  ***** Signal Log ***** SIGNAL: y </pre> |  |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| Results:  | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-03</td> <td>All cmds to drive 80 blocked</td> <td>Not all cmds to drive 80 blocked</td> </tr> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>1 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-10</td> <td>3 Commands return success</td> <td>2 Commands return success</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table> | Assertion                        | Expected Results | Actual Results | AM-03 | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked | AM-07 | Tool active message | Tool active message | AM-08 | 1 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-10 | 3 Commands return success | 2 Commands return success | AO-10 | Signal observed | Signal observed |  |  |
| Assertion   | Expected Results   | Actual Results                   |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AM-03   | All cmds to drive 80 blocked   | Not all cmds to drive 80 blocked |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AM-07   | Tool active message  | Tool active message              |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AM-08   | 1 drives identified  | No drives identified             |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AM-09   | Drive 80 is protected  | Drive 80 is protected            |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AM-10   | 3 Commands return success  | 2 Commands return success        |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| AO-10   | Signal observed  | Signal observed                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |
| Analysis:   | SWB-06 Expected results not achieved for assertions: AM-03 AM-08 AM-10   |                                  |                  |                |       |                              |                                  |       |                     |                     |       |                     |                      |       |                       |                       |       |                           |                           |       |                 |                 |  |  |

| Case SWB-07 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-07 Install all drives, configure return code to failure, protect all drives, execute read commands.   |
| Assertions Tested:               | <p>SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 12:19:11 2004  |
| Test PC:                         | McCloud   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p> <p>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock all /fail test-hdl SWB-07 McCloud PEB r 90 F6 6F 1F 2B Shutdown Test PC </pre>  |
| Log File                         | ***** Monitor Execution *****   |



**Case SWB-07 PDBlock Version 2.00**

```

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 (01/22/04 at 12:17:07) Going . . . TSR
**** Install PDB Log ****
PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er
Drives Protected: ALL
Return Code:      FAILURE
Bell:             ON
Message:         ON
**** Test Harness Log ****
CMD: A:\TEST-HDL.EXE SWB-07 McCloud PEB r 90 F6 6F 1F 2B
Case: SWB-07
Command set: Read
Date: Thu Jan 22 12:19:11 2004

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: PEB
Host: McCloud
Number of drives 5, Drives: 90 F6 6F 1F 2B
  Case Cmd Drv Action Stat Cry Count Cmd Name
    0 SWB-07 <02> 80 Allowed 0000 Off    1  ReadSectors
    1 SWB-07 <0A> 80 Allowed 0000 Off    1  ReadLong
    2 SWB-07 <42> 80 Allowed 0000 Off    1  ExtRead
Results for SWB-07 category r on drive 80 No commands blocked (0 of 3)
    0 SWB-07 <02> 81 Allowed 0000 Off    1  ReadSectors
    1 SWB-07 <0A> 81 Allowed 0000 Off    1  ReadLong
    2 SWB-07 <42> 81 Allowed 0000 Off    1  ExtRead
Results for SWB-07 category r on drive 81 No commands blocked (0 of 3)
    0 SWB-07 <02> 82 Allowed 0000 Off    1  ReadSectors
    1 SWB-07 <0A> 82 Allowed 0000 Off    1  ReadLong
    2 SWB-07 <42> 82 Allowed 0000 Off    1  ExtRead
Results for SWB-07 category r on drive 82 No commands blocked (0 of 3)
    0 SWB-07 <02> 83 Allowed 0000 Off    1  ReadSectors
    1 SWB-07 <0A> 83 Allowed 0000 Off    1  ReadLong
    2 SWB-07 <42> 83 Allowed 0000 Off    1  ExtRead
Results for SWB-07 category r on drive 83 No commands blocked (0 of 3)
    0 SWB-07 <02> 84 Allowed 0000 Off    1  ReadSectors
    1 SWB-07 <0A> 84 Allowed 0000 Off    1  ReadLong
    2 SWB-07 <42> 84 Allowed 0000 Off    1  ExtRead
Results for SWB-07 category r on drive 84 No commands blocked (0 of 3)
Summary: 15 sent, 0 blocked, 15 not blocked

**** Signal Log ****
SIGNAL: n
    
```

| Assertion | Expected Results            | Actual Results              |
|-----------|-----------------------------|-----------------------------|
| AM-04     | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| AM-04     | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| AM-04     | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| AM-04     | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| AM-04     | No cmds to drive 84 blocked | No cmds to drive 84 blocked |
| AM-07     | Tool active message         | Tool active message         |
| AM-08     | 5 drives identified         | No drives identified        |
| AM-09     | Drive 80 is protected       | Drive 80 is protected       |
| AM-09     | Drive 81 is protected       | Drive 81 is protected       |
| AM-09     | Drive 82 is protected       | Drive 82 is protected       |
| AM-09     | Drive 83 is protected       | Drive 83 is protected       |
| AM-09     | Drive 84 is protected       | Drive 84 is protected       |
| AM-11     | 0 Commands return fail      | 0 Commands return fail      |
| AO-10     | No signal observed          | No signal observed          |

Analysis: SWB-07 Expected results not achieved for assertions: AM-08

**Case SWB-08 PDBlock Version 2.00**

Case summary: SWB-08 Install two drives, configure return code to success, protect all drives, execute read commands.

| Case SWB-08 PDBlock Version 2.00 |  |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
|----------------------------------|--|-----------------------------|------------------|----------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|---------------------|---------------------|-------|---------------------|----------------------|--|--|
| Assertions Tested:               | <p>SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Tester Name:                     | PEB  |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Test Date:                       | Thu Jan 22 12:56:01 2004   |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Test PC:                         | HecRamsey  |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Test Software:                   | SWBT 1.0   |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Hard Drives Used:                | <p>Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors</p> <p>Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>  |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 01</p> <p>test-hdl SWB-08 HecRamsey PEB r 8A E4</p> <p>Shutdown Test PC</p>   |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:53:14) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-08 HecRamsey PEB r 8A E4 Case: SWB-08 Command set: Read Date: Thu Jan 22 12:56:01 2004  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: PEB Host: HecRamsey Number of drives 2, Drives: 8A E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-08 &lt;02&gt; 80 Allowed 0000 Off 1 ReadSectors 1 SWB-08 &lt;0A&gt; 80 Allowed 0000 Off 1 ReadLong 2 SWB-08 &lt;42&gt; 80 Allowed 0000 Off 1 ExtRead Results for SWB-08 category r on drive 80 No commands blocked (0 of 3) 0 SWB-08 &lt;02&gt; 81 Allowed 0000 Off 1 ReadSectors 1 SWB-08 &lt;0A&gt; 81 Allowed 0000 Off 1 ReadLong 2 SWB-08 &lt;42&gt; 81 Allowed 0000 Off 1 ExtRead Results for SWB-08 category r on drive 81 No commands blocked (0 of 3) Summary: 6 sent, 0 blocked, 6 not blocked  ***** Signal Log ***** SIGNAL: n </pre> |                             |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-04</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AM-04</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>2 drives identified</td> <td>No drives identified</td> </tr> </tbody> </table>   | Assertion                   | Expected Results | Actual Results | AM-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked | AM-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked | AM-07 | Tool active message | Tool active message | AM-08 | 2 drives identified | No drives identified |  |  |
| Assertion                        | Expected Results   | Actual Results              |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| AM-04                            | No cmds to drive 80 blocked  | No cmds to drive 80 blocked |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| AM-04                            | No cmds to drive 81 blocked  | No cmds to drive 81 blocked |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| AM-07                            | Tool active message  | Tool active message         |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |
| AM-08                            | 2 drives identified  | No drives identified        |                  |                |       |                             |                             |       |                             |                             |       |                     |                     |       |                     |                      |  |  |

| Case SWB-08 PDBlock Version 2.00 |  |                           |                           |
|----------------------------------|--|---------------------------|---------------------------|
|                                  | AM-09  | Drive 80 is protected     | Drive 80 is protected     |
|                                  | AM-09  | Drive 81 is protected     | Drive 81 is protected     |
|                                  | AM-10  | 0 Commands return success | 0 Commands return success |
|                                  | AO-10  | No signal observed        | No signal observed        |
| Analysis:                        | SWB-08 Expected results not achieved for assertions: AM-08 |                           |                           |

| Case SWB-09 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-09 Install one drive, configure return code to failure, protect all drives, execute information commands.  |
| Assertions Tested:               | <p>SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:35:00 2004   |
| Test PC:                         | Wimsey   |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 0 /fail test-hdl SWB-09 Wimsey PEB i 64 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:32:49) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0 Return Code:      FAILURE Bell:             ON Message:         ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-09 Wimsey PEB i 64 Case: SWB-09 Command set: Information Date: Thu Jan 22 12:35:00 2004  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: PEB Host: Wimsey Number of drives 1, Drives: 64 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-09 &lt;01&gt; 80 Allowed 0000 Off 1 GetLastStatus 1 SWB-09 &lt;04&gt; 80 Allowed 0000 Off 1 VerifySectors 2 SWB-09 &lt;08&gt; 80 Allowed 0000 Off 1 ReadDriveParms 3 SWB-09 &lt;10&gt; 80 Allowed 0000 Off 1 TestDriveReady 4 SWB-09 &lt;15&gt; 80 Allowed 0000 Off 1 ReadDriveType 5 SWB-09 &lt;41&gt; 80 Allowed 0000 Off 1 CheckForExtensions 6 SWB-09 &lt;44&gt; 80 Allowed 0000 Off 1 VerifySectors 7 SWB-09 &lt;48&gt; 80 Allowed 0000 Off 1 GetDriveParms Results for SWB-09 category i on drive 80 No commands blocked (0 of 8) </pre> |

| Case SWB-09 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | Summary: 8 sent, 0 blocked, 8 not blocked                  |                             |                             |
|                                  | ***** Signal Log *****<br>SIGNAL: n                        |                             |                             |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>     | <b>Actual Results</b>       |
|                                  | 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         | No drives identified        |
|                                  | AM-09  | Drive 80 is protected       | Drive 80 is protected       |
|                                  | AM-11  | 0 Commands return fail      | 0 Commands return fail      |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-09 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-10 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-10 Install all drives, configure return code to success, protect all drives, execute information commands.   |
| Assertions Tested:               | SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:26:09 2004   |
| Test PC:                         | McCloud  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors<br>Drive 84, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock all<br>test-hdl SWB-10 McCloud PEB i 90 F6 6F 1F 2B<br>Shutdown Test PC  |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/22/04 at 12:22:49) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code: SUCCESS<br>Bell: ON<br>Message: ON<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-10 McCloud PEB i 90 F6 6F 1F 2B<br>Case: SWB-10<br>Command set: Information<br>Date: Thu Jan 22 12:26:09 2004<br><br>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51<br>@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19<br>Compiled on Aug 31 2003 at 08:10:54   |

**Case SWB-10 PDBlock Version 2.00**

```

Operator: PEB
Host: McCloud
Number of drives 5, Drives: 90 F6 6F 1F 2B
  Case  Cmd Drv Action  Stat Cry Count  Cmd Name
  0 SWB-10 <01> 80 Allowed 0000 Off    1  GetLastStatus
  1 SWB-10 <04> 80 Allowed 0000 Off    1  VerifySectors
  2 SWB-10 <08> 80 Allowed 0000 Off    1  ReadDriveParms
  3 SWB-10 <10> 80 Allowed 0000 Off    1  TestDriveReady
  4 SWB-10 <15> 80 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
  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
  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)
  0 SWB-10 <01> 84 Allowed 0000 Off    1  GetLastStatus
  1 SWB-10 <04> 84 Allowed 0000 Off    1  VerifySectors
  2 SWB-10 <08> 84 Allowed 0000 Off    1  ReadDriveParms
  3 SWB-10 <10> 84 Allowed 0000 Off    1  TestDriveReady
  4 SWB-10 <15> 84 Allowed 0000 Off    1  ReadDriveType
  5 SWB-10 <41> 84 Allowed 0000 Off    1  CheckForExtensions
  6 SWB-10 <44> 84 Allowed 0000 Off    1  VerifySectors
  7 SWB-10 <48> 84 Allowed 0000 Off    1  GetDriveParms
Results for SWB-10 category i on drive 84 No commands blocked (0 of 8)
Summary: 40 sent, 0 blocked, 40 not blocked

***** Signal Log *****
SIGNAL: n
    
```

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 |
| 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-06     | No cmds to drive 84 blocked | No cmds to drive 84 blocked |
| AM-07     | Tool active message         | Tool active message         |
| AM-08     | 5 drives identified         | No drives identified        |
| AM-09     | Drive 80 is protected       | Drive 80 is protected       |
| AM-09     | Drive 81 is protected       | Drive 81 is protected       |
| AM-09     | Drive 82 is protected       | Drive 82 is protected       |
| AM-09     | Drive 83 is protected       | Drive 83 is protected       |
| AM-09     | Drive 84 is protected       | Drive 84 is protected       |
| AM-10     | 0 Commands return success   | 0 Commands return success   |

| Case SWB-10 PDBlock Version 2.00 |  |                    |                    |
|----------------------------------|--|--------------------|--------------------|
|                                  | AO-10  | No signal observed | No signal observed |
| Analysis:                        | SWB-10 Expected results not achieved for assertions: AM-08 |                    |                    |

| Case SWB-11 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-11 Install two drives, configure return code to failure, protect all drives, execute control commands.  |
| Assertions Tested:               | <p>SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.</p> <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 13:07:16 2004  |
| Test PC:                         | HecRamsey   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 01 /fail test-hdl SWB-11 HecRamsey PEB c 8A E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:04:55) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-11 HecRamsey PEB c 8A E4 Case: SWB-11 Command set: Control Date: Thu Jan 22 13:07:16 2004  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: PEB Host: HecRamsey Number of drives 2, Drives: 8A E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-11 &lt;00&gt; 80 Allowed 0000 Off 1 Reset 1 SWB-11 &lt;0C&gt; 80 Allowed 0000 Off 1 SeekDrive 2 SWB-11 &lt;0D&gt; 80 Allowed 0000 Off 1 AltReset 3 SWB-11 &lt;11&gt; 80 Allowed 0000 Off 1 Recalibrate 4 SWB-11 &lt;47&gt; 80 Allowed 0000 Off 1 ExtendedSeek Results for SWB-11 category c on drive 80 No commands blocked (0 of 5) 0 SWB-11 &lt;00&gt; 81 Allowed 0000 Off 1 Reset 1 SWB-11 &lt;0C&gt; 81 Allowed 0000 Off 1 SeekDrive 2 SWB-11 &lt;0D&gt; 81 Allowed 0000 Off 1 AltReset 3 SWB-11 &lt;11&gt; 81 Allowed 0000 Off 1 Recalibrate 4 SWB-11 &lt;47&gt; 81 Allowed 0000 Off 1 ExtendedSeek Results for SWB-11 category c on drive 81 No commands blocked (0 of 5) </pre> |

| Case SWB-11 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | Summary: 10 sent, 0 blocked, 10 not blocked                |                             |                             |
|                                  | ***** Signal Log *****<br>SIGNAL: n                        |                             |                             |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>     | <b>Actual Results</b>       |
|                                  | 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         | No 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      |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-11 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-12 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-12 Install one drive, configure return code to success, protect all drives, execute control commands.  |
| Assertions Tested:               | SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.<br>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:44:20 2004   |
| Test PC:                         | Wimsey   |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 0<br>test-hdl SWB-12 Wimsey PEB c 64<br>Shutdown Test PC   |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/22/04 at 12:43:16) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code: SUCCESS<br>Bell: ON<br>Message: ON<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-12 Wimsey PEB c 64<br>Case: SWB-12<br>Command set: Control<br>Date: Thu Jan 22 12:44:20 2004<br><br>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51<br>@(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19<br>Compiled on Aug 31 2003 at 08:10:54<br>Operator: PEB<br>Host: Wimsey   |

| Case SWB-12 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | Number of drives 1, Drives: 64<br>Case Cmd Drv Action Stat Cry Count Cmd Name<br>0 SWB-12 <00> 80 Allowed 0000 Off 1 Reset<br>1 SWB-12 <0C> 80 Allowed 0000 Off 1 SeekDrive<br>2 SWB-12 <0D> 80 Allowed 0000 Off 1 AltReset<br>3 SWB-12 <11> 80 Allowed 0000 Off 1 Recalibrate<br>4 SWB-12 <47> 80 Allowed 0000 Off 1 ExtendedSeek<br>Results for SWB-12 category c on drive 80 No commands blocked (0 of 5)<br>Summary: 5 sent, 0 blocked, 5 not blocked<br><br>***** Signal Log *****<br>SIGNAL: n |                             |                             |
| Results:                         | Assertion  | Expected Results            | 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         | No drives identified        |
|                                  | AM-09  | Drive 80 is protected       | Drive 80 is protected       |
|                                  | AM-10  | 0 Commands return success   | 0 Commands return success   |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-12 Expected results not achieved for assertions: AM-08   |                             |                             |

| Case SWB-13 PDBlock Version 2.00 |   |
|----------------------------------|---|
| 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.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 11:57:50 2004  |
| Test PC:                         | Rumpole   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors  |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 13 /fail<br>test-hdl SWB-13 Rumpole PEB w 6F 90 2B 1F<br>Shutdown Test PC   |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/22/04 at 11:54:12) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,3<br>Return Code: FAILURE<br>Bell: ON  |



| Case SWB-13 PDBlock Version 2.00 |   |                              |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
|----------------------------------|---|------------------------------|--------|-----------|------------------|----------------|----------------|---------------------|---------------------|-------|---------------------|----------------------|--------|-------------------------|-------------------------|---------|-----------------------|-----------------------|----------------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|------------------------|------------------------|-------|------------------------------|------------------------------|-------|------------------------------|------------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------|-----------------|
|                                  | <p>Message: ON<br/> ***** Test Harness Log *****<br/> CMD: A:\TEST-HDL.EXE SWB-13 Rumpole PEB w 6F 90 2B 1F<br/> Case: SWB-13<br/> Command set: Write<br/> Date: Thu Jan 22 11:57:50 2004</p> <p>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51<br/> @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19<br/> Compiled on Aug 31 2003 at 08:10:54</p> <p>Operator: PEB<br/> Host: Rumpole<br/> Number of drives 4, Drives: 6F 90 2B 1F</p> <table border="1"> <thead> <tr> <th>Case</th> <th>Cmd</th> <th>Drv</th> <th>Action</th> <th>Stat</th> <th>Cry</th> <th>Count</th> <th>Cmd Name</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>SWB-13</td> <td>&lt;03&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 WriteSectors</td> </tr> <tr> <td>1</td> <td>SWB-13</td> <td>&lt;0B&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 WriteLong</td> </tr> <tr> <td>2</td> <td>SWB-13</td> <td>&lt;43&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 ExtWrite</td> </tr> </tbody> </table> <p>Results for SWB-13 category w on drive 80 No commands blocked (0 of 3)<br/> 0 SWB-13 &lt;03&gt; 81 Blocked 0300 On 0 WriteSectors<br/> 1 SWB-13 &lt;0B&gt; 81 Blocked 0300 On 0 WriteLong<br/> 2 SWB-13 &lt;43&gt; 81 Blocked 0300 On 0 ExtWrite</p> <p>Results for SWB-13 category w on drive 81 All commands blocked (3 of 3)<br/> 0 SWB-13 &lt;03&gt; 82 Allowed 0000 Off 1 WriteSectors<br/> 1 SWB-13 &lt;0B&gt; 82 Allowed 0000 Off 1 WriteLong<br/> 2 SWB-13 &lt;43&gt; 82 Allowed 0000 Off 1 ExtWrite</p> <p>Results for SWB-13 category w on drive 82 No commands blocked (0 of 3)<br/> 0 SWB-13 &lt;03&gt; 83 Blocked 0300 On 0 WriteSectors<br/> 1 SWB-13 &lt;0B&gt; 83 Blocked 0300 On 0 WriteLong<br/> 2 SWB-13 &lt;43&gt; 83 Blocked 0300 On 0 ExtWrite</p> <p>Results for SWB-13 category w on drive 83 All commands blocked (3 of 3)<br/> Summary: 12 sent, 6 blocked, 6 not blocked</p> <p>***** Signal Log *****<br/> SIGNAL: y</p> |                              |        | Case      | Cmd              | Drv            | Action         | Stat                | Cry                 | Count | Cmd Name            | 0                    | SWB-13 | <03>                    | 80                      | Allowed | 0000                  | Off                   | 1 WriteSectors | 1                       | SWB-13                  | <0B>  | 80                    | Allowed               | 0000  | Off                    | 1 WriteLong            | 2     | SWB-13                       | <43>                         | 80    | Allowed                      | 0000                         | Off   | 1 ExtWrite                  |                             |       |                             |                             |       |                 |                 |
| Case                             | Cmd   | Drv                          | Action | Stat      | Cry              | Count          | Cmd Name       |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| 0                                | SWB-13  | <03>                         | 80     | Allowed   | 0000             | Off            | 1 WriteSectors |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| 1                                | SWB-13  | <0B>                         | 80     | Allowed   | 0000             | Off            | 1 WriteLong    |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| 2                                | SWB-13  | <43>                         | 80     | Allowed   | 0000             | Off            | 1 ExtWrite     |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>4 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is unprotected</td> <td>Drive 80 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is protected</td> <td>Drive 81 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is unprotected</td> <td>Drive 82 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 83 is protected</td> <td>Drive 83 is protected</td> </tr> <tr> <td>AM-11</td> <td>6 Commands return fail</td> <td>6 Commands return fail</td> </tr> <tr> <td>AO-01</td> <td>All cmds to drive 81 blocked</td> <td>All cmds to drive 81 blocked</td> </tr> <tr> <td>AO-01</td> <td>All cmds to drive 83 blocked</td> <td>All cmds to drive 83 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 82 blocked</td> <td>No cmds to drive 82 blocked</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>  |                              |        | Assertion | Expected Results | Actual Results | AM-07          | Tool active message | Tool active message | AM-08 | 4 drives identified | No drives identified | AM-09  | Drive 80 is unprotected | Drive 80 is unprotected | AM-09   | Drive 81 is protected | Drive 81 is protected | AM-09          | Drive 82 is unprotected | Drive 82 is unprotected | AM-09 | Drive 83 is protected | Drive 83 is protected | AM-11 | 6 Commands return fail | 6 Commands return fail | AO-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked | AO-01 | All cmds to drive 83 blocked | All cmds to drive 83 blocked | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked | AO-10 | Signal observed | Signal observed |
| Assertion                        | Expected Results  | Actual Results               |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-07                            | Tool active message   | Tool active message          |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-08                            | 4 drives identified   | No drives identified         |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 80 is unprotected   | Drive 80 is unprotected      |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 81 is protected   | Drive 81 is protected        |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 82 is unprotected   | Drive 82 is unprotected      |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 83 is protected   | Drive 83 is protected        |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-11                            | 6 Commands return fail  | 6 Commands return fail       |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-01                            | All cmds to drive 81 blocked  | All cmds to drive 81 blocked |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-01                            | All cmds to drive 83 blocked  | All cmds to drive 83 blocked |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-07                            | No cmds to drive 80 blocked   | No cmds to drive 80 blocked  |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-07                            | No cmds to drive 82 blocked   | No cmds to drive 82 blocked  |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-10                            | Signal observed   | Signal observed              |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Analysis:                        | SWB-13 Expected results not achieved for assertions: AM-08  |                              |        |           |                  |                |                |                     |                     |       |                     |                      |        |                         |                         |         |                       |                       |                |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |

| Case SWB-14 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-14 Install all drives, configure return code to success, protect with pattern low, 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.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for |

| Case SWB-14 PDBlock Version 2.00 |  |                         |                       |
|----------------------------------|--|-------------------------|-----------------------|
|                                  | drives not in the selected subset.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.  |                         |                       |
| Tester Name:                     | PEB  |                         |                       |
| Test Date:                       | Thu Jan 22 12:05:27 2004   |                         |                       |
| Test PC:                         | Rumpole  |                         |                       |
| Test Software:                   | SWBT 1.0   |                         |                       |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors   |                         |                       |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 01<br>test-hdl SWB-14 Rumpole PEB w 6F 90 2B 1F<br>Shutdown Test PC  |                         |                       |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:02:52) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-14 Rumpole PEB w 6F 90 2B 1F Case: SWB-14 Command set: Write Date: Thu Jan 22 12:05:27 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-14 &lt;03&gt; 80 Blocked 0000 Off 0 WriteSectors 1 SWB-14 &lt;0B&gt; 80 Blocked 0000 Off 0 WriteLong 2 SWB-14 &lt;43&gt; 80 Blocked 0000 Off 0 ExtWrite Results for SWB-14 category w on drive 80 All commands blocked (3 of 3) 0 SWB-14 &lt;03&gt; 81 Blocked 0000 Off 0 WriteSectors 1 SWB-14 &lt;0B&gt; 81 Blocked 0000 Off 0 WriteLong 2 SWB-14 &lt;43&gt; 81 Blocked 0000 Off 0 ExtWrite Results for SWB-14 category w on drive 81 All commands blocked (3 of 3) 0 SWB-14 &lt;03&gt; 82 Allowed 0000 Off 1 WriteSectors 1 SWB-14 &lt;0B&gt; 82 Allowed 0000 Off 1 WriteLong 2 SWB-14 &lt;43&gt; 82 Allowed 0000 Off 1 ExtWrite Results for SWB-14 category w on drive 82 No commands blocked (0 of 3) 0 SWB-14 &lt;03&gt; 83 Allowed 0000 Off 1 WriteSectors 1 SWB-14 &lt;0B&gt; 83 Allowed 0000 Off 1 WriteLong 2 SWB-14 &lt;43&gt; 83 Allowed 0000 Off 1 ExtWrite Results for SWB-14 category w on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 6 blocked, 6 not blocked  ***** Signal Log ***** SIGNAL: y </pre> |                         |                       |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b> | <b>Actual Results</b> |
|                                  | AM-07  | Tool active message     | Tool active message   |
|                                  | AM-08  | 4 drives identified     | No drives identified  |
|                                  | AM-09  | Drive 80 is protected   | Drive 80 is protected |
|                                  | AM-09  | Drive 81 is protected   | Drive 81 is protected |

| Case SWB-14 PDBlock Version 2.00 |  |                              |                              |
|----------------------------------|--|------------------------------|------------------------------|
|                                  | 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  |
|                                  | AO-10  | Signal observed              | Signal observed              |
| Analysis:                        | SWB-14 Expected results not achieved for assertions: AM-08 |                              |                              |

| Case SWB-15 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-15 Install all drives, configure return code to failure, protect with pattern first, execute configuration commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-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.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:08:42 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 0 /fail</p> <p>test-hdl SWB-15 Rumpole PEB x 6F 90 2B 1F</p> <p>Shutdown Test PC</p>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:07:34) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-15 Rumpole PEB x 6F 90 2B 1F Case: SWB-15 Command set: Configure Date: Thu Jan 22 12:08:42 2004  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: PEB Host: Rumpole </pre>  |

**Case SWB-15 PDBlock Version 2.00**

```

Number of drives 4, Drives: 6F 90 2B 1F
  Case Cmd Drv Action Stat Cry Count Cmd Name
0 SWB-15 <05> 80 Blocked 0300 On      0 FormatTrack
1 SWB-15 <06> 80 Blocked 0300 On      0 FormatBadSectors
2 SWB-15 <07> 80 Blocked 0300 On      0 FormatCyl
3 SWB-15 <09> 80 Allowed 0000 Off     1 InitDriveParms
4 SWB-15 <0E> 80 Allowed 0000 Off     1 DiagnosticESDI
5 SWB-15 <0F> 80 Blocked 0300 On      0 DiagnosticESDI
6 SWB-15 <12> 80 Allowed 0000 Off     1 DiagnosticRAM
7 SWB-15 <13> 80 Allowed 0000 Off     1 DiagnosticDrive
8 SWB-15 <14> 80 Allowed 0000 Off     1 DiagnosticCTL
Results for SWB-15 category x on drive 80 Not all commands blocked (4
of 9)
0 SWB-15 <05> 81 Allowed 0000 Off     1 FormatTrack
1 SWB-15 <06> 81 Allowed 0000 Off     1 FormatBadSectors
2 SWB-15 <07> 81 Allowed 0000 Off     1 FormatCyl
3 SWB-15 <09> 81 Allowed 0000 Off     1 InitDriveParms
4 SWB-15 <0E> 81 Allowed 0000 Off     1 DiagnosticESDI
5 SWB-15 <0F> 81 Allowed 0000 Off     1 DiagnosticESDI
6 SWB-15 <12> 81 Allowed 0000 Off     1 DiagnosticRAM
7 SWB-15 <13> 81 Allowed 0000 Off     1 DiagnosticDrive
8 SWB-15 <14> 81 Allowed 0000 Off     1 DiagnosticCTL
Results for SWB-15 category x on drive 81 No commands blocked (0 of 9)
0 SWB-15 <05> 82 Allowed 0000 Off     1 FormatTrack
1 SWB-15 <06> 82 Allowed 0000 Off     1 FormatBadSectors
2 SWB-15 <07> 82 Allowed 0000 Off     1 FormatCyl
3 SWB-15 <09> 82 Allowed 0000 Off     1 InitDriveParms
4 SWB-15 <0E> 82 Allowed 0000 Off     1 DiagnosticESDI
5 SWB-15 <0F> 82 Allowed 0000 Off     1 DiagnosticESDI
6 SWB-15 <12> 82 Allowed 0000 Off     1 DiagnosticRAM
7 SWB-15 <13> 82 Allowed 0000 Off     1 DiagnosticDrive
8 SWB-15 <14> 82 Allowed 0000 Off     1 DiagnosticCTL
Results for SWB-15 category x on drive 82 No commands blocked (0 of 9)
0 SWB-15 <05> 83 Allowed 0000 Off     1 FormatTrack
1 SWB-15 <06> 83 Allowed 0000 Off     1 FormatBadSectors
2 SWB-15 <07> 83 Allowed 0000 Off     1 FormatCyl
3 SWB-15 <09> 83 Allowed 0000 Off     1 InitDriveParms
4 SWB-15 <0E> 83 Allowed 0000 Off     1 DiagnosticESDI
5 SWB-15 <0F> 83 Allowed 0000 Off     1 DiagnosticESDI
6 SWB-15 <12> 83 Allowed 0000 Off     1 DiagnosticRAM
7 SWB-15 <13> 83 Allowed 0000 Off     1 DiagnosticDrive
8 SWB-15 <14> 83 Allowed 0000 Off     1 DiagnosticCTL
Results for SWB-15 category x on drive 83 No commands blocked (0 of 9)
Summary: 36 sent, 4 blocked, 32 not blocked

**** Signal Log ****
SIGNAL: y
    
```

Results:

| Assertion | Expected Results             | Actual Results                   |
|-----------|------------------------------|----------------------------------|
| AM-07     | Tool active message          | Tool active message              |
| AM-08     | 4 drives identified          | No drives identified             |
| AM-09     | Drive 80 is protected        | Drive 80 is protected            |
| AM-09     | Drive 81 is unprotected      | Drive 81 is unprotected          |
| AM-09     | Drive 82 is unprotected      | Drive 82 is unprotected          |
| AM-09     | Drive 83 is unprotected      | Drive 83 is unprotected          |
| AM-11     | 4 Commands return fail       | 4 Commands return fail           |
| AO-02     | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked |
| AO-07     | No cmds to drive 81 blocked  | No cmds to drive 81 blocked      |
| AO-07     | No cmds to drive 82 blocked  | No cmds to drive 82 blocked      |
| AO-07     | No cmds to drive 83 blocked  | No cmds to drive 83 blocked      |
| AO-10     | Signal observed              | Signal observed                  |

Analysis:

SWB-15 Expected results not achieved for assertions: AM-08 AO-02

**Case SWB-16 PDBlock Version 2.00**

| Case SWB-16 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-16 Install all drives, configure return code to success, protect with pattern mid, execute configuration commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-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.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:15:59 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 2 test-hdl SWB-16 Rumpole PEB x 6F 90 2B 1F Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:14:45) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 2 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-16 Rumpole PEB x 6F 90 2B 1F Case: SWB-16 Command set: Configure Date: Thu Jan 22 12:15:59 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-16 &lt;05&gt; 80 Allowed 0000 Off 1 FormatTrack 1 SWB-16 &lt;06&gt; 80 Allowed 0000 Off 1 FormatBadSectors 2 SWB-16 &lt;07&gt; 80 Allowed 0000 Off 1 FormatCyl 3 SWB-16 &lt;09&gt; 80 Allowed 0000 Off 1 InitDriveParms 4 SWB-16 &lt;0E&gt; 80 Allowed 0000 Off 1 DiagnosticESDI 5 SWB-16 &lt;0F&gt; 80 Allowed 0000 Off 1 DiagnosticESDI 6 SWB-16 &lt;12&gt; 80 Allowed 0000 Off 1 DiagnosticRAM 7 SWB-16 &lt;13&gt; 80 Allowed 0000 Off 1 DiagnosticDrive 8 SWB-16 &lt;14&gt; 80 Allowed 0000 Off 1 DiagnosticCTL Results for SWB-16 category x on drive 80 No commands blocked (0 of 9) </pre> |

| Case SWB-16 PDBlock Version 2.00 |  |                                  |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
|----------------------------------|--|----------------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-------------------------|-------------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|---------------------------|---------------------------|-------|------------------------------|----------------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------|-----------------|--|
|                                  | <pre> 0 SWB-16 &lt;05&gt; 81 Allowed 0000 Off      1  FormatTrack 1 SWB-16 &lt;06&gt; 81 Allowed 0000 Off      1  FormatBadSectors 2 SWB-16 &lt;07&gt; 81 Allowed 0000 Off      1  FormatCyl 3 SWB-16 &lt;09&gt; 81 Allowed 0000 Off      1  InitDriveParms 4 SWB-16 &lt;0E&gt; 81 Allowed 0000 Off      1  DiagnosticESDI 5 SWB-16 &lt;0F&gt; 81 Allowed 0000 Off      1  DiagnosticESDI 6 SWB-16 &lt;12&gt; 81 Allowed 0000 Off      1  DiagnosticRAM 7 SWB-16 &lt;13&gt; 81 Allowed 0000 Off      1  DiagnosticDrive 8 SWB-16 &lt;14&gt; 81 Allowed 0000 Off      1  DiagnosticCTL Results for SWB-16 category x on drive 81 No commands blocked (0 of 9) 0 SWB-16 &lt;05&gt; 82 Blocked 0000 Off      0  FormatTrack 1 SWB-16 &lt;06&gt; 82 Blocked 0000 Off      0  FormatBadSectors 2 SWB-16 &lt;07&gt; 82 Blocked 0000 Off      0  FormatCyl 3 SWB-16 &lt;09&gt; 82 Allowed 0000 Off      1  InitDriveParms 4 SWB-16 &lt;0E&gt; 82 Allowed 0000 Off      1  DiagnosticESDI 5 SWB-16 &lt;0F&gt; 82 Blocked 0000 Off      0  DiagnosticESDI 6 SWB-16 &lt;12&gt; 82 Allowed 0000 Off      1  DiagnosticRAM 7 SWB-16 &lt;13&gt; 82 Allowed 0000 Off      1  DiagnosticDrive 8 SWB-16 &lt;14&gt; 82 Allowed 0000 Off      1  DiagnosticCTL Results for SWB-16 category x on drive 82 Not all commands blocked (4 of 9) 0 SWB-16 &lt;05&gt; 83 Allowed 0000 Off      1  FormatTrack 1 SWB-16 &lt;06&gt; 83 Allowed 0000 Off      1  FormatBadSectors 2 SWB-16 &lt;07&gt; 83 Allowed 0000 Off      1  FormatCyl 3 SWB-16 &lt;09&gt; 83 Allowed 0000 Off      1  InitDriveParms 4 SWB-16 &lt;0E&gt; 83 Allowed 0000 Off      1  DiagnosticESDI 5 SWB-16 &lt;0F&gt; 83 Allowed 0000 Off      1  DiagnosticESDI 6 SWB-16 &lt;12&gt; 83 Allowed 0000 Off      1  DiagnosticRAM 7 SWB-16 &lt;13&gt; 83 Allowed 0000 Off      1  DiagnosticDrive 8 SWB-16 &lt;14&gt; 83 Allowed 0000 Off      1  DiagnosticCTL Results for SWB-16 category x on drive 83 No commands blocked (0 of 9) Summary: 36 sent, 4 blocked, 32 not blocked  **** Signal Log **** SIGNAL: y </pre> |                                  |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>4 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is unprotected</td> <td>Drive 80 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is unprotected</td> <td>Drive 81 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 83 is unprotected</td> <td>Drive 83 is unprotected</td> </tr> <tr> <td>AM-10</td> <td>4 Commands return success</td> <td>4 Commands return success</td> </tr> <tr> <td>AO-02</td> <td>All cmds to drive 82 blocked</td> <td>Not all cmds to drive 82 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 83 blocked</td> <td>No cmds to drive 83 blocked</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>   | Assertion                        | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 4 drives identified | No 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 | 4 Commands return success | 4 Commands return success | AO-02 | All cmds to drive 82 blocked | Not all cmds to drive 82 blocked | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked | AO-07 | No cmds to drive 83 blocked | No cmds to drive 83 blocked | AO-10 | Signal observed | Signal observed |  |
| Assertion                        | Expected Results   | Actual Results                   |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AM-07                            | Tool active message  | Tool active message              |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AM-08                            | 4 drives identified  | No 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                            | 4 Commands return success  | 4 Commands return success        |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AO-02                            | All cmds to drive 82 blocked   | Not all cmds to drive 82 blocked |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AO-07                            | No cmds to drive 80 blocked  | No cmds to drive 80 blocked      |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AO-07                            | No cmds to drive 81 blocked  | No cmds to drive 81 blocked      |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AO-07                            | No cmds to drive 83 blocked  | No cmds to drive 83 blocked      |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| AO-10                            | Signal observed  | Signal observed                  |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |
| Analysis:                        | SWB-16 Expected results not achieved for assertions: AM-08 AO-02   |                                  |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                                  |       |                             |                             |       |                             |                             |       |                             |                             |       |                 |                 |  |

| Case SWB-17 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-17 Install all drives, configure return code to failure, protect with pattern random_p, execute miscellaneous commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> |

| Case SWB-17 PDBlock Version 2.00 |   |
|----------------------------------|---|
|                                  | <p>SWB-AO-03. If a subset of all covered drives is specified for protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 12:20:18 2004  |
| Test PC:                         | Rumpole   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 1 /fail test-hdl SWB-17 Rumpole PEB m 6F 90 2B 1F Shutdown Test PC </pre>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:19:13) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 1 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-17 Rumpole PEB m 6F 90 2B 1F Case: SWB-17 Command set: Misc Date: Thu Jan 22 12:20:18 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-17 &lt;16&gt; 80 Allowed 0000 Off 1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-17 &lt;FE&gt; 80 Allowed 0000 Off 1 Undefined 227 SWB-17 &lt;FF&gt; 80 Allowed 0000 Off 1 Undefined Results for SWB-17 category m on drive 80 Not all commands blocked (1 of 228) 0 SWB-17 &lt;16&gt; 81 Allowed 0000 Off 1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ... </pre> |

**Case SWB-17 PDBlock Version 2.00**

```

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 (3
of 228)
  0 SWB-17 <16> 82 Allowed 0000 Off      1 Undefined
  ...

misc commands 17-FD results omitted

see log files for full results

...

226 SWB-17 <FE> 82 Allowed 0000 Off      1 Undefined
227 SWB-17 <FF> 82 Allowed 0000 Off      1 Undefined
Results for SWB-17 category m on drive 82 Not all commands blocked (1
of 228)
  0 SWB-17 <16> 83 Allowed 0000 Off      1 Undefined
  ...

misc commands 17-FD results omitted

see log files for full results

...

226 SWB-17 <FE> 83 Allowed 0000 Off      1 Undefined
227 SWB-17 <FF> 83 Allowed 0000 Off      1 Undefined
Results for SWB-17 category m on drive 83 Not all commands blocked (1
of 228)
Summary: 912 sent, 6 blocked, 906 not blocked

**** Signal Log ****
SIGNAL: y

```

| Results: | Assertion | Expected Results             | Actual Results                   |
|----------|-----------|------------------------------|----------------------------------|
|          | AM-07     | Tool active message          | Tool active message              |
|          | AM-08     | 4 drives identified          | No 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     | 6 Commands return fail       | 6 Commands return fail           |
|          | AO-03     | All cmds to drive 81 blocked | Not all cmds to drive 81 blocked |
|          | AO-07     | No cmds to drive 80 blocked  | Not all cmds to drive 80 blocked |
|          | AO-07     | No cmds to drive 82 blocked  | Not all cmds to drive 82 blocked |
|          | AO-07     | No cmds to drive 83 blocked  | Not all cmds to drive 83 blocked |
|          | AO-10     | Signal observed              | Signal observed                  |

Analysis: SWB-17 Expected results not achieved for assertions: AM-08 AO-03

**Case SWB-18 PDBlock Version 2.00**

Case summary: SWB-18 Install all drives, configure return code to success, protect with pattern not\_last, execute miscellaneous commands.

Assertions Tested:

- SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.
- SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.
- SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.
- SWB-AM-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



| Case SWB-18 PDBlock Version 2.00 |  |
|----------------------------------|--|
|                                  | <p>protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:32:02 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 012</p> <p>test-hdl SWB-18 Rumpole PEB m 6F 90 2B 1F</p> <p>Shutdown Test PC</p>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:30:38) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1,2 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-18 Rumpole PEB m 6F 90 2B 1F Case: SWB-18 Command set: Misc Date: Thu Jan 22 12:32:02 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-18 &lt;16&gt; 80 Allowed 0000 Off 1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-18 &lt;FE&gt; 80 Allowed 0000 Off 1 Undefined 227 SWB-18 &lt;FF&gt; 80 Allowed 0000 Off 1 Undefined Results for SWB-18 category m on drive 80 Not all commands blocked (3 of 228) 0 SWB-18 &lt;16&gt; 81 Allowed 0000 Off 1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-18 &lt;FE&gt; 81 Allowed 0000 Off 1 Undefined </pre> |

| Case SWB-18 PDBlock Version 2.00 |  |                                  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
|----------------------------------|--|----------------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|----------------------------|---------------------------|-------|------------------------------|----------------------------------|-------|------------------------------|----------------------------------|-------|------------------------------|----------------------------------|-------|-----------------------------|----------------------------------|-------|-----------------|-----------------|--|
|                                  | <pre> 227 SWB-18 &lt;FF&gt; 81 Allowed 0000 Off      1 Undefined Results for SWB-18 category m on drive 81 Not all commands blocked (3 of 228)   0 SWB-18 &lt;16&gt; 82 Allowed 0000 Off      1 Undefined   ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-18 &lt;FE&gt; 82 Allowed 0000 Off      1 Undefined 227 SWB-18 &lt;FF&gt; 82 Allowed 0000 Off      1 Undefined Results for SWB-18 category m on drive 82 Not all commands blocked (3 of 228)   0 SWB-18 &lt;16&gt; 83 Allowed 0000 Off      1 Undefined   ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-18 &lt;FE&gt; 83 Allowed 0000 Off      1 Undefined 227 SWB-18 &lt;FF&gt; 83 Allowed 0000 Off      1 Undefined Results for SWB-18 category m on drive 83 Not all commands blocked (1 of 228) Summary: 912 sent, 10 blocked, 902 not blocked  **** Signal Log **** SIGNAL: y </pre>   |                                  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>4 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is protected</td> <td>Drive 81 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 83 is unprotected</td> <td>Drive 83 is unprotected</td> </tr> <tr> <td>AM-10</td> <td>10 Commands return success</td> <td>6 Commands return success</td> </tr> <tr> <td>AO-03</td> <td>All cmds to drive 80 blocked</td> <td>Not all cmds to drive 80 blocked</td> </tr> <tr> <td>AO-03</td> <td>All cmds to drive 81 blocked</td> <td>Not all cmds to drive 81 blocked</td> </tr> <tr> <td>AO-03</td> <td>All cmds to drive 82 blocked</td> <td>Not all cmds to drive 82 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 83 blocked</td> <td>Not all cmds to drive 83 blocked</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table> | Assertion                        | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 4 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-09 | Drive 81 is protected | Drive 81 is protected | AM-09 | Drive 82 is protected | Drive 82 is protected | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected | AM-10 | 10 Commands return success | 6 Commands return success | AO-03 | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked | AO-03 | All cmds to drive 81 blocked | Not all cmds to drive 81 blocked | AO-03 | All cmds to drive 82 blocked | Not all cmds to drive 82 blocked | AO-07 | No cmds to drive 83 blocked | Not all cmds to drive 83 blocked | AO-10 | Signal observed | Signal observed |  |
| Assertion                        | Expected Results   | Actual Results                   |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-07                            | Tool active message  | Tool active message              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-08                            | 4 drives identified  | No drives identified             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-09                            | Drive 80 is protected  | Drive 80 is protected            |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-09                            | Drive 81 is protected  | Drive 81 is protected            |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-09                            | Drive 82 is protected  | Drive 82 is protected            |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-09                            | Drive 83 is unprotected  | Drive 83 is unprotected          |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AM-10                            | 10 Commands return success   | 6 Commands return success        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AO-03                            | All cmds to drive 80 blocked   | Not all cmds to drive 80 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AO-03                            | All cmds to drive 81 blocked   | Not all cmds to drive 81 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AO-03                            | All cmds to drive 82 blocked   | Not all cmds to drive 82 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AO-07                            | No cmds to drive 83 blocked  | Not all cmds to drive 83 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| AO-10                            | Signal observed  | Signal observed                  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |
| Analysis:                        | SWB-18 Expected results not achieved for assertions: AM-08 AM-10 AO-03   |                                  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                       |                       |       |                         |                         |       |                            |                           |       |                              |                                  |       |                              |                                  |       |                              |                                  |       |                             |                                  |       |                 |                 |  |

| Case SWB-19 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-19 Install all drives, configure return code to failure, protect with pattern last, execute read commands.  |
| Assertions Tested:               | <pre> SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be </pre> |

| Case SWB-19 PDBlock Version 2.00 |   |                         |                       |
|----------------------------------|---|-------------------------|-----------------------|
|                                  | <p>blocked for drives in the selected subset.<br/> 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.<br/> SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |                         |                       |
| Tester Name:                     | PEB   |                         |                       |
| Test Date:                       | Thu Jan 22 12:40:48 2004  |                         |                       |
| Test PC:                         | Rumpole   |                         |                       |
| Test Software:                   | SWBT 1.0  |                         |                       |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors  |                         |                       |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 3 /fail<br>test-hdl SWB-19 Rumpole PEB r 6F 90 2B 1F<br>Shutdown Test PC  |                         |                       |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:39:13) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 3 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-19 Rumpole PEB r 6F 90 2B 1F Case: SWB-19 Command set: Read Date: Thu Jan 22 12:40:48 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F   Case  Cmd Drv Action  Stat Cry Count  Cmd Name   0 SWB-19 &lt;02&gt; 80 Allowed 0000 Off    1  ReadSectors   1 SWB-19 &lt;0A&gt; 80 Allowed 0000 Off    1  ReadLong   2 SWB-19 &lt;42&gt; 80 Allowed 0000 Off    1  ExtRead Results for SWB-19 category r on drive 80 No commands blocked (0 of 3)   0 SWB-19 &lt;02&gt; 81 Allowed 0000 Off    1  ReadSectors   1 SWB-19 &lt;0A&gt; 81 Allowed 0000 Off    1  ReadLong   2 SWB-19 &lt;42&gt; 81 Allowed 0000 Off    1  ExtRead Results for SWB-19 category r on drive 81 No commands blocked (0 of 3)   0 SWB-19 &lt;02&gt; 82 Allowed 0000 Off    1  ReadSectors   1 SWB-19 &lt;0A&gt; 82 Allowed 0000 Off    1  ReadLong   2 SWB-19 &lt;42&gt; 82 Allowed 0000 Off    1  ExtRead Results for SWB-19 category r on drive 82 No commands blocked (0 of 3)   0 SWB-19 &lt;02&gt; 83 Allowed 0000 Off    1  ReadSectors   1 SWB-19 &lt;0A&gt; 83 Allowed 0000 Off    1  ReadLong   2 SWB-19 &lt;42&gt; 83 Allowed 0000 Off    1  ExtRead Results for SWB-19 category r on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 0 blocked, 12 not blocked  ***** Signal Log ***** SIGNAL: n </pre> |                         |                       |
| Results:                         | <b>Assertion</b>  | <b>Expected Results</b> | <b>Actual Results</b> |
|                                  | AM-07   | Tool active message     | Tool active message   |
|                                  | AM-08   | 4 drives identified     | No drives identified  |

| Case SWB-19 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | 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 |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-19 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-20 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-20 Install all drives, configure return code to success, protect with pattern not_mid, execute read commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:44:28 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 013 test-hdl SWB-20 Rumpole PEB r 6F 90 2B 1F Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:43:37) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1,3 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-20 Rumpole PEB r 6F 90 2B 1F Case: SWB-20 Command set: Read Date: Thu Jan 22 12:44:28 2004  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 </pre>   |

| Case SWB-20 PDBlock Version 2.00  |  |                             |                             |
|---|--|-----------------------------|-----------------------------|
| <p>Compiled on Aug 31 2003 at 08:10:54</p> <p>Operator: PEB<br/>Host: Rumpole<br/>Number of drives 4, Drives: 6F 90 2B 1F</p> <p>Case Cmd Drv Action Stat Cry Count Cmd Name</p> <p>0 SWB-20 &lt;02&gt; 80 Allowed 0000 Off 1 ReadSectors<br/>1 SWB-20 &lt;0A&gt; 80 Allowed 0000 Off 1 ReadLong<br/>2 SWB-20 &lt;42&gt; 80 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-20 category r on drive 80 No commands blocked (0 of 3)</p> <p>0 SWB-20 &lt;02&gt; 81 Allowed 0000 Off 1 ReadSectors<br/>1 SWB-20 &lt;0A&gt; 81 Allowed 0000 Off 1 ReadLong<br/>2 SWB-20 &lt;42&gt; 81 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-20 category r on drive 81 No commands blocked (0 of 3)</p> <p>0 SWB-20 &lt;02&gt; 82 Allowed 0000 Off 1 ReadSectors<br/>1 SWB-20 &lt;0A&gt; 82 Allowed 0000 Off 1 ReadLong<br/>2 SWB-20 &lt;42&gt; 82 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-20 category r on drive 82 No commands blocked (0 of 3)</p> <p>0 SWB-20 &lt;02&gt; 83 Allowed 0000 Off 1 ReadSectors<br/>1 SWB-20 &lt;0A&gt; 83 Allowed 0000 Off 1 ReadLong<br/>2 SWB-20 &lt;42&gt; 83 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-20 category r on drive 83 No commands blocked (0 of 3)</p> <p>Summary: 12 sent, 0 blocked, 12 not blocked</p> <p>**** Signal Log ****<br/>SIGNAL: n</p> |  |                             |                             |
| Results:  | <b>Assertion</b>   | <b>Expected Results</b>     | <b>Actual Results</b>       |
|   | AM-07  | Tool active message         | Tool active message         |
|   | AM-08  | 4 drives identified         | No 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 |
|   | AO-10  | No signal observed          | No signal observed          |
| Analysis:   | SWB-20 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-21 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-21 Install all drives, configure return code to failure, protect with pattern high, execute information commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-06. If a subset of all covered drives is specified for protection, then commands from the information category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:48:34 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives                      | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors  |

| Case SWB-21 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Used:                            | Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors  |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 23 /fail<br>test-hdl SWB-21 Rumpole PEB i 6F 90 2B 1F<br>Shutdown Test PC  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:47:17) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 2,3 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-21 Rumpole PEB i 6F 90 2B 1F Case: SWB-21 Command set: Information Date: Thu Jan 22 12:48:34 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F   Case  Cmd  Drv  Action  Stat  Cry  Count  Cmd Name   0 SWB-21 &lt;01&gt; 80 Allowed 0000 Off    1  GetLastStatus   1 SWB-21 &lt;04&gt; 80 Allowed 0000 Off    1  VerifySectors   2 SWB-21 &lt;08&gt; 80 Allowed 0000 Off    1  ReadDriveParms   3 SWB-21 &lt;10&gt; 80 Allowed 0000 Off    1  TestDriveReady   4 SWB-21 &lt;15&gt; 80 Allowed 0000 Off    1  ReadDriveType   5 SWB-21 &lt;41&gt; 80 Allowed 0000 Off    1  CheckForExtensions   6 SWB-21 &lt;44&gt; 80 Allowed 0000 Off    1  VerifySectors   7 SWB-21 &lt;48&gt; 80 Allowed 0000 Off    1  GetDriveParms Results for SWB-21 category i on drive 80 No commands blocked (0 of 8)   0 SWB-21 &lt;01&gt; 81 Allowed 0000 Off    1  GetLastStatus   1 SWB-21 &lt;04&gt; 81 Allowed 0000 Off    1  VerifySectors   2 SWB-21 &lt;08&gt; 81 Allowed 0000 Off    1  ReadDriveParms   3 SWB-21 &lt;10&gt; 81 Allowed 0000 Off    1  TestDriveReady   4 SWB-21 &lt;15&gt; 81 Allowed 0000 Off    1  ReadDriveType   5 SWB-21 &lt;41&gt; 81 Allowed 0000 Off    1  CheckForExtensions   6 SWB-21 &lt;44&gt; 81 Allowed 0000 Off    1  VerifySectors   7 SWB-21 &lt;48&gt; 81 Allowed 0000 Off    1  GetDriveParms Results for SWB-21 category i on drive 81 No commands blocked (0 of 8)   0 SWB-21 &lt;01&gt; 82 Allowed 0000 Off    1  GetLastStatus   1 SWB-21 &lt;04&gt; 82 Allowed 0000 Off    1  VerifySectors   2 SWB-21 &lt;08&gt; 82 Allowed 0000 Off    1  ReadDriveParms   3 SWB-21 &lt;10&gt; 82 Allowed 0000 Off    1  TestDriveReady   4 SWB-21 &lt;15&gt; 82 Allowed 0000 Off    1  ReadDriveType   5 SWB-21 &lt;41&gt; 82 Allowed 0000 Off    1  CheckForExtensions   6 SWB-21 &lt;44&gt; 82 Allowed 0000 Off    1  VerifySectors   7 SWB-21 &lt;48&gt; 82 Allowed 0000 Off    1  GetDriveParms Results for SWB-21 category i on drive 82 No commands blocked (0 of 8)   0 SWB-21 &lt;01&gt; 83 Allowed 0000 Off    1  GetLastStatus   1 SWB-21 &lt;04&gt; 83 Allowed 0000 Off    1  VerifySectors   2 SWB-21 &lt;08&gt; 83 Allowed 0000 Off    1  ReadDriveParms   3 SWB-21 &lt;10&gt; 83 Allowed 0000 Off    1  TestDriveReady   4 SWB-21 &lt;15&gt; 83 Allowed 0000 Off    1  ReadDriveType   5 SWB-21 &lt;41&gt; 83 Allowed 0000 Off    1  CheckForExtensions   6 SWB-21 &lt;44&gt; 83 Allowed 0000 Off    1  VerifySectors   7 SWB-21 &lt;48&gt; 83 Allowed 0000 Off    1  GetDriveParms </pre> |

| Case SWB-21 PDBlock Version 2.00 |   |                             |                             |
|----------------------------------|---|-----------------------------|-----------------------------|
|                                  | Results for SWB-21 category i on drive 83 No commands blocked (0 of 8)<br>Summary: 32 sent, 0 blocked, 32 not blocked |                             |                             |
|                                  | ***** Signal Log *****<br>SIGNAL: n   |                             |                             |
| Results:                         | <b>Assertion</b>  | <b>Expected Results</b>     | <b>Actual Results</b>       |
|                                  | AM-07   | Tool active message         | Tool active message         |
|                                  | AM-08   | 4 drives identified         | No drives identified        |
|                                  | AM-09   | Drive 80 is unprotected     | Drive 80 is unprotected     |
|                                  | AM-09   | Drive 81 is unprotected     | Drive 81 is unprotected     |
|                                  | AM-09   | Drive 82 is protected       | Drive 82 is protected       |
|                                  | AM-09   | Drive 83 is protected       | Drive 83 is protected       |
|                                  | AM-11   | 0 Commands return fail      | 0 Commands return fail      |
|                                  | AO-06   | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
|                                  | AO-06   | 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-10   | No signal observed          | No signal observed          |
| Analysis:                        | SWB-21 Expected results not achieved for assertions: AM-08  |                             |                             |

| Case SWB-22 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-22 Install all drives, configure return code to success, protect with pattern not_first, execute information commands.   |
| Assertions Tested:               | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 12:52:42 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 123<br>test-hdl SWB-22 Rumpole PEB i 6F 90 2B 1F<br>Shutdown Test PC   |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/22/04 at 12:51:47) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,2,3<br>Return Code: SUCCESS<br>Bell: ON   |

**Case SWB-22 PDBlock Version 2.00**

```

Message: ON
**** Test Harness Log ****
CMD: A:\TEST-HDL.EXE SWB-22 Rumpole PEB i 6F 90 2B 1F
Case: SWB-22
Command set: Information
Date: Thu Jan 22 12:52:42 2004

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: PEB
Host: Rumpole
Number of drives 4, Drives: 6F 90 2B 1F
  Case Cmd Drv Action Stat Cry Count Cmd Name
  0 SWB-22 <01> 80 Allowed 0000 Off 1 GetLastStatus
  1 SWB-22 <04> 80 Allowed 0000 Off 1 VerifySectors
  2 SWB-22 <08> 80 Allowed 0000 Off 1 ReadDriveParms
  3 SWB-22 <10> 80 Allowed 0000 Off 1 TestDriveReady
  4 SWB-22 <15> 80 Allowed 0000 Off 1 ReadDriveType
  5 SWB-22 <41> 80 Allowed 0000 Off 1 CheckForExtensions
  6 SWB-22 <44> 80 Allowed 0000 Off 1 VerifySectors
  7 SWB-22 <48> 80 Allowed 0000 Off 1 GetDriveParms
Results for SWB-22 category i on drive 80 No commands blocked (0 of 8)
  0 SWB-22 <01> 81 Allowed 0000 Off 1 GetLastStatus
  1 SWB-22 <04> 81 Allowed 0000 Off 1 VerifySectors
  2 SWB-22 <08> 81 Allowed 0000 Off 1 ReadDriveParms
  3 SWB-22 <10> 81 Allowed 0000 Off 1 TestDriveReady
  4 SWB-22 <15> 81 Allowed 0000 Off 1 ReadDriveType
  5 SWB-22 <41> 81 Allowed 0000 Off 1 CheckForExtensions
  6 SWB-22 <44> 81 Allowed 0000 Off 1 VerifySectors
  7 SWB-22 <48> 81 Allowed 0000 Off 1 GetDriveParms
Results for SWB-22 category i on drive 81 No commands blocked (0 of 8)
  0 SWB-22 <01> 82 Allowed 0000 Off 1 GetLastStatus
  1 SWB-22 <04> 82 Allowed 0000 Off 1 VerifySectors
  2 SWB-22 <08> 82 Allowed 0000 Off 1 ReadDriveParms
  3 SWB-22 <10> 82 Allowed 0000 Off 1 TestDriveReady
  4 SWB-22 <15> 82 Allowed 0000 Off 1 ReadDriveType
  5 SWB-22 <41> 82 Allowed 0000 Off 1 CheckForExtensions
  6 SWB-22 <44> 82 Allowed 0000 Off 1 VerifySectors
  7 SWB-22 <48> 82 Allowed 0000 Off 1 GetDriveParms
Results for SWB-22 category i on drive 82 No commands blocked (0 of 8)
  0 SWB-22 <01> 83 Allowed 0000 Off 1 GetLastStatus
  1 SWB-22 <04> 83 Allowed 0000 Off 1 VerifySectors
  2 SWB-22 <08> 83 Allowed 0000 Off 1 ReadDriveParms
  3 SWB-22 <10> 83 Allowed 0000 Off 1 TestDriveReady
  4 SWB-22 <15> 83 Allowed 0000 Off 1 ReadDriveType
  5 SWB-22 <41> 83 Allowed 0000 Off 1 CheckForExtensions
  6 SWB-22 <44> 83 Allowed 0000 Off 1 VerifySectors
  7 SWB-22 <48> 83 Allowed 0000 Off 1 GetDriveParms
Results for SWB-22 category i on drive 83 No commands blocked (0 of 8)
Summary: 32 sent, 0 blocked, 32 not blocked

**** Signal Log ****
SIGNAL: n
    
```

Results:

| Assertion | Expected Results            | Actual Results              |
|-----------|-----------------------------|-----------------------------|
| AM-07     | Tool active message         | Tool active message         |
| AM-08     | 4 drives identified         | No drives identified        |
| AM-09     | Drive 80 is unprotected     | Drive 80 is unprotected     |
| AM-09     | Drive 81 is protected       | Drive 81 is protected       |
| AM-09     | Drive 82 is protected       | Drive 82 is protected       |
| AM-09     | Drive 83 is protected       | Drive 83 is protected       |
| AM-10     | 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 |
| AO-06     | 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-10     | No signal observed          | No signal observed          |



|   |  |
|---|--|
| <b>Case SWB-22 PDBlock Version 2.00</b> |  |
| Analysis:                               | SWB-22 Expected results not achieved for assertions: AM-08 |

|   |  |
|---|--|
| <b>Case SWB-23 PDBlock Version 2.00</b> |  |
| Case summary:                           | SWB-23 Install all drives, configure return code to failure, protect with pattern random_u, execute control commands.  |
| Assertions Tested:                      | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                            | PEB  |
| Test Date:                              | Thu Jan 22 12:58:06 2004   |
| Test PC:                                | Rumpole  |
| Test Software:                          | SWBT 1.0   |
| Hard Drives Used:                       | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:                      | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 023 /fail test-hdl SWB-23 Rumpole PEB c 6F 90 2B 1F Shutdown Test PC </pre>  |
| Log File Highlights:                    | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 12:57:03) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,2,3 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-23 Rumpole PEB c 6F 90 2B 1F Case: SWB-23 Command set: Control Date: Thu Jan 22 12:58:06 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-23 &lt;00&gt; 80 Allowed 0000 Off 1 Reset 1 SWB-23 &lt;0C&gt; 80 Allowed 0000 Off 1 SeekDrive 2 SWB-23 &lt;0D&gt; 80 Allowed 0000 Off 1 AltReset 3 SWB-23 &lt;11&gt; 80 Allowed 0000 Off 1 Recalibrate 4 SWB-23 &lt;47&gt; 80 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 80 No commands blocked (0 of 5) </pre> |

| Case SWB-23 PDBlock Version 2.00 |  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
|----------------------------------|--|-----------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|------------------------|------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|--------------------|--------------------|--|--|
|                                  | <pre> 0 SWB-23 &lt;00&gt; 81 Allowed 0000 Off 1 Reset 1 SWB-23 &lt;0C&gt; 81 Allowed 0000 Off 1 SeekDrive 2 SWB-23 &lt;0D&gt; 81 Allowed 0000 Off 1 AltReset 3 SWB-23 &lt;11&gt; 81 Allowed 0000 Off 1 Recalibrate 4 SWB-23 &lt;47&gt; 81 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 81 No commands blocked (0 of 5) 0 SWB-23 &lt;00&gt; 82 Allowed 0000 Off 1 Reset 1 SWB-23 &lt;0C&gt; 82 Allowed 0000 Off 1 SeekDrive 2 SWB-23 &lt;0D&gt; 82 Allowed 0000 Off 1 AltReset 3 SWB-23 &lt;11&gt; 82 Allowed 0000 Off 1 Recalibrate 4 SWB-23 &lt;47&gt; 82 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 82 No commands blocked (0 of 5) 0 SWB-23 &lt;00&gt; 83 Allowed 0000 Off 1 Reset 1 SWB-23 &lt;0C&gt; 83 Allowed 0000 Off 1 SeekDrive 2 SWB-23 &lt;0D&gt; 83 Allowed 0000 Off 1 AltReset 3 SWB-23 &lt;11&gt; 83 Allowed 0000 Off 1 Recalibrate 4 SWB-23 &lt;47&gt; 83 Allowed 0000 Off 1 ExtendedSeek Results for SWB-23 category c on drive 83 No commands blocked (0 of 5) Summary: 20 sent, 0 blocked, 20 not blocked  **** Signal Log **** SIGNAL: n </pre>  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>4 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is unprotected</td> <td>Drive 81 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 83 is protected</td> <td>Drive 83 is protected</td> </tr> <tr> <td>AM-11</td> <td>0 Commands return fail</td> <td>0 Commands return fail</td> </tr> <tr> <td>AO-05</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AO-05</td> <td>No cmds to drive 82 blocked</td> <td>No cmds to drive 82 blocked</td> </tr> <tr> <td>AO-05</td> <td>No cmds to drive 83 blocked</td> <td>No cmds to drive 83 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AO-10</td> <td>No signal observed</td> <td>No signal observed</td> </tr> </tbody> </table> | Assertion                   | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 4 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected | AM-09 | Drive 82 is protected | Drive 82 is protected | AM-09 | Drive 83 is protected | Drive 83 is protected | AM-11 | 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-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked | AO-10 | No signal observed | No signal observed |  |  |
| Assertion                        | Expected Results   | Actual Results              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-07                            | Tool active message  | Tool active message         |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-08                            | 4 drives identified  | No drives identified        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-09                            | Drive 80 is protected  | Drive 80 is protected       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-09                            | Drive 81 is unprotected  | Drive 81 is unprotected     |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-09                            | Drive 82 is protected  | Drive 82 is protected       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-09                            | Drive 83 is protected  | Drive 83 is protected       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-11                            | 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-07                            | No cmds to drive 81 blocked  | No cmds to drive 81 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AO-10                            | No signal observed   | No signal observed          |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Analysis:                        | SWB-23 Expected results not achieved for assertions: AM-08   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                       |                       |       |                        |                        |       |                             |                             |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |

| Case SWB-24 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-24 Install all drives, configure return code to success, protect with pattern even, execute control commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 13:02:50 2004  |
| Test PC:                         | Rumpole   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p>   |

| Case SWB-24 PDBlock Version 2.00 |   |                             |                             |
|----------------------------------|---|-----------------------------|-----------------------------|
|                                  | Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors  |                             |                             |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 02<br>test-hdl SWB-24 Rumpole PEB c 6F 90 2B 1F<br>Shutdown Test PC   |                             |                             |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:01:38) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,2 Return Code:      SUCCESS Bell:             ON Message:         ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-24 Rumpole PEB c 6F 90 2B 1F Case: SWB-24 Command set: Control Date: Thu Jan 22 13:02:50 2004  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: PEB Host: Rumpole Number of drives 4, Drives: 6F 90 2B 1F    Case Cmd Drv Action Stat Cry Count Cmd Name    0 SWB-24 &lt;00&gt; 80 Allowed 0000 Off    1  Reset    1 SWB-24 &lt;0C&gt; 80 Allowed 0000 Off    1  SeekDrive    2 SWB-24 &lt;0D&gt; 80 Allowed 0000 Off    1  AltReset    3 SWB-24 &lt;11&gt; 80 Allowed 0000 Off    1  Recalibrate    4 SWB-24 &lt;47&gt; 80 Allowed 0000 Off    1  ExtendedSeek Results for SWB-24 category c on drive 80 No commands blocked (0 of 5)    0 SWB-24 &lt;00&gt; 81 Allowed 0000 Off    1  Reset    1 SWB-24 &lt;0C&gt; 81 Allowed 0000 Off    1  SeekDrive    2 SWB-24 &lt;0D&gt; 81 Allowed 0000 Off    1  AltReset    3 SWB-24 &lt;11&gt; 81 Allowed 0000 Off    1  Recalibrate    4 SWB-24 &lt;47&gt; 81 Allowed 0000 Off    1  ExtendedSeek Results for SWB-24 category c on drive 81 No commands blocked (0 of 5)    0 SWB-24 &lt;00&gt; 82 Allowed 0000 Off    1  Reset    1 SWB-24 &lt;0C&gt; 82 Allowed 0000 Off    1  SeekDrive    2 SWB-24 &lt;0D&gt; 82 Allowed 0000 Off    1  AltReset    3 SWB-24 &lt;11&gt; 82 Allowed 0000 Off    1  Recalibrate    4 SWB-24 &lt;47&gt; 82 Allowed 0000 Off    1  ExtendedSeek Results for SWB-24 category c on drive 82 No commands blocked (0 of 5)    0 SWB-24 &lt;00&gt; 83 Allowed 0000 Off    1  Reset    1 SWB-24 &lt;0C&gt; 83 Allowed 0000 Off    1  SeekDrive    2 SWB-24 &lt;0D&gt; 83 Allowed 0000 Off    1  AltReset    3 SWB-24 &lt;11&gt; 83 Allowed 0000 Off    1  Recalibrate    4 SWB-24 &lt;47&gt; 83 Allowed 0000 Off    1  ExtendedSeek Results for SWB-24 category c on drive 83 No commands blocked (0 of 5) Summary: 20 sent, 0 blocked, 20 not blocked  ***** Signal Log ***** SIGNAL: n </pre> |                             |                             |
| Results:                         | <b>Assertion</b>  | <b>Expected Results</b>     | <b>Actual Results</b>       |
|                                  | AM-07   | Tool active message         | Tool active message         |
|                                  | AM-08   | 4 drives identified         | No drives identified        |
|                                  | AM-09   | Drive 80 is protected       | Drive 80 is protected       |
|                                  | AM-09   | Drive 81 is unprotected     | Drive 81 is unprotected     |
|                                  | AM-09   | Drive 82 is protected       | Drive 82 is protected       |
|                                  | AM-09   | Drive 83 is unprotected     | Drive 83 is unprotected     |
|                                  | AM-10   | 0 Commands return success   | 0 Commands return success   |
|                                  | AO-05   | No cmds to drive 80 blocked | No cmds to drive 80 blocked |

| Case SWB-24 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | AO-05  | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
|                                  | AO-07  | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
|                                  | AO-07  | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-24 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-25 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-25 Install three drives, configure return code to failure, protect with pattern PUU, execute write commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>                  |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 13:33:18 2004  |
| Test PC:                         | Cadfael   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 0 /fail test-hdl SWB-25 Cadfael PEB w 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:31:10) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-25 Cadfael PEB w 64 F6 E4 Case: SWB-25 Command set: Write Date: Thu Jan 22 13:33:18 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-25 &lt;03&gt; 80 Blocked 0300 On 0 WriteSectors 1 SWB-25 &lt;0B&gt; 80 Blocked 0300 On 0 WriteLong 2 SWB-25 &lt;43&gt; 80 Blocked 0300 On 0 ExtWrite Results for SWB-25 category w on drive 80 All commands blocked (3 of 3) 0 SWB-25 &lt;03&gt; 81 Allowed 0000 Off 1 WriteSectors </pre> |

| Case SWB-25 PDBlock Version 2.00 |  |                              |                              |
|----------------------------------|--|------------------------------|------------------------------|
|                                  | <pre> 1 SWB-25 &lt;0B&gt; 81 Allowed 0000 Off      1 WriteLong 2 SWB-25 &lt;43&gt; 81 Allowed 0000 Off      1 ExtWrite Results for SWB-25 category w on drive 81 No commands blocked (0 of 3) 0 SWB-25 &lt;03&gt; 82 Allowed 0000 Off      1 WriteSectors 1 SWB-25 &lt;0B&gt; 82 Allowed 0000 Off      1 WriteLong 2 SWB-25 &lt;43&gt; 82 Allowed 0000 Off      1 ExtWrite Results for SWB-25 category w on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 3 blocked, 6 not blocked  **** Signal Log **** SIGNAL: y </pre> |                              |                              |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>      | <b>Actual Results</b>        |
|                                  | AM-07  | Tool active message          | Tool active message          |
|                                  | AM-08  | 3 drives identified          | No drives identified         |
|                                  | AM-09  | Drive 80 is protected        | Drive 80 is protected        |
|                                  | AM-09  | Drive 81 is unprotected      | Drive 81 is unprotected      |
|                                  | AM-09  | Drive 82 is unprotected      | Drive 82 is unprotected      |
|                                  | AM-11  | 3 Commands return fail       | 3 Commands return fail       |
|                                  | AO-01  | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
|                                  | AO-07  | No cmds to drive 81 blocked  | No cmds to drive 81 blocked  |
|                                  | AO-07  | No cmds to drive 82 blocked  | No cmds to drive 82 blocked  |
|                                  | AO-10  | Signal observed              | Signal observed              |
| Analysis:                        | SWB-25 Expected results not achieved for assertions: AM-08   |                              |                              |

| Case SWB-26 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-26 Install three drives, configure return code to success, protect with pattern UPU, execute write commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 13:37:51 2004  |
| Test PC:                         | Cadfael   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 1 test-hdl SWB-26 Cadfael PEB w 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> **** Monitor Execution **** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:36:28) Going . . . TSR **** Install PDB Log **** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 1 Return Code: SUCCESS </pre>   |

**Case SWB-26 PDBlock Version 2.00**

```

Bell:                ON
Message:             ON
**** Test Harness Log ****
CMD: A:\TEST-HDL.EXE SWB-26 Cadfael PEB w 64 F6 E4
Case: SWB-26
Command set: Write
Date: Thu Jan 22 13:37:51 2004

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: PEB
Host: Cadfael
Number of drives 3, Drives: 64 F6 E4
    Case  Cmd Drv Action  Stat Cry Count Cmd Name
    0 SWB-26 <03> 80 Allowed 0000 Off    1  WriteSectors
    1 SWB-26 <0B> 80 Allowed 0000 Off    1  WriteLong
    2 SWB-26 <43> 80 Allowed 0000 Off    1  ExtWrite
Results for SWB-26 category w on drive 80 No commands blocked (0 of 3)
    0 SWB-26 <03> 81 Blocked 0000 Off    0  WriteSectors
    1 SWB-26 <0B> 81 Blocked 0000 Off    0  WriteLong
    2 SWB-26 <43> 81 Blocked 0000 Off    0  ExtWrite
Results for SWB-26 category w on drive 81 All commands blocked (3 of 3)
    0 SWB-26 <03> 82 Allowed 0000 Off    1  WriteSectors
    1 SWB-26 <0B> 82 Allowed 0000 Off    1  WriteLong
    2 SWB-26 <43> 82 Allowed 0000 Off    1  ExtWrite
Results for SWB-26 category w on drive 82 No commands blocked (0 of 3)
Summary: 9 sent, 3 blocked, 6 not blocked

**** Signal Log ****
SIGNAL: y
    
```

| Results: | Assertion | Expected Results             | Actual Results               |
|----------|-----------|------------------------------|------------------------------|
|          | AM-07     | Tool active message          | Tool active message          |
|          | AM-08     | 3 drives identified          | No 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  |
|          | AO-10     | Signal observed              | Signal observed              |

Analysis: SWB-26 Expected results not achieved for assertions: AM-08

**Case SWB-27 PDBlock Version 2.00**

Case summary: SWB-27 Install three drives, configure return code to failure, protect with pattern UUP, execute write commands.

Assertions Tested:

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

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

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

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

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

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

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

Tester Name: PEB

Test Date: Thu Jan 22 13:42:35 2004

| Case SWB-27 PDBlock Version 2.00 |   |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
|----------------------------------|---|------------------------------|-----------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-------------------------|-------------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|------------------------|------------------------|-------|------------------------------|------------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------|-----------------|
| Test PC:                         | Cadfael   |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Test Software:                   | SWBT 1.0  |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>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]<br>tally13<br>A:\pdblock 2 /fail<br>test-hdl SWB-27 Cadfael PEB w 64 F6 E4<br>Shutdown Test PC   |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:41:04) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 2 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-27 Cadfael PEB w 64 F6 E4 Case: SWB-27 Command set: Write Date: Thu Jan 22 13:42:35 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4       Case Cmd Drv Action Stat Cry Count Cmd Name       0 SWB-27 &lt;03&gt; 80 Allowed 0000 Off    1 WriteSectors       1 SWB-27 &lt;0B&gt; 80 Allowed 0000 Off    1 WriteLong       2 SWB-27 &lt;43&gt; 80 Allowed 0000 Off    1 ExtWrite Results for SWB-27 category w on drive 80 No commands blocked (0 of 3)       0 SWB-27 &lt;03&gt; 81 Allowed 0000 Off    1 WriteSectors       1 SWB-27 &lt;0B&gt; 81 Allowed 0000 Off    1 WriteLong       2 SWB-27 &lt;43&gt; 81 Allowed 0000 Off    1 ExtWrite Results for SWB-27 category w on drive 81 No commands blocked (0 of 3)       0 SWB-27 &lt;03&gt; 82 Blocked 0300 On     0 WriteSectors       1 SWB-27 &lt;0B&gt; 82 Blocked 0300 On     0 WriteLong       2 SWB-27 &lt;43&gt; 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  ***** Signal Log ***** SIGNAL: y </pre> |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>3 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is unprotected</td> <td>Drive 80 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is unprotected</td> <td>Drive 81 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-11</td> <td>3 Commands return fail</td> <td>3 Commands return fail</td> </tr> <tr> <td>AO-01</td> <td>All cmds to drive 82 blocked</td> <td>All cmds to drive 82 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>  |                              | Assertion | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 3 drives identified | No drives identified | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected | AM-09 | Drive 82 is protected | Drive 82 is protected | AM-11 | 3 Commands return fail | 3 Commands return fail | AO-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked | AO-10 | Signal observed | Signal observed |
| Assertion                        | Expected Results  | Actual Results               |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-07                            | Tool active message   | Tool active message          |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-08                            | 3 drives identified   | No drives identified         |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 80 is unprotected   | Drive 80 is unprotected      |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 81 is unprotected   | Drive 81 is unprotected      |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-09                            | Drive 82 is protected   | Drive 82 is protected        |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AM-11                            | 3 Commands return fail  | 3 Commands return fail       |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-01                            | All cmds to drive 82 blocked  | All cmds to drive 82 blocked |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-07                            | No cmds to drive 80 blocked   | No cmds to drive 80 blocked  |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-07                            | No cmds to drive 81 blocked   | No cmds to drive 81 blocked  |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| AO-10                            | Signal observed   | Signal observed              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |
| Analysis:                        | SWB-27 Expected results not achieved for assertions: AM-08  |                              |           |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                             |                             |       |                             |                             |       |                 |                 |

| Case SWB-28 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-28 Install three drives, configure return code to success, protect with pattern UPP, execute write commands. |
| Assertions                       | SWB-AM-07. If the tool is executed then the tool shall issue a message   |

| Case SWB-28 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Tested:                          | <p>indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 13:53:59 2004   |
| Test PC:                         | Cadfael  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 12</p> <p>test-hdl SWB-28 Cadfael PEB w 64 F6 E4</p> <p>Shutdown Test PC</p>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:52:38) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 1,2 Return Code:      SUCCESS Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-28 Cadfael PEB w 64 F6 E4 Case: SWB-28 Command set: Write Date: Thu Jan 22 13:53:59 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4       Case  Cmd  Drv  Action  Stat  Cry  Count  Cmd Name       0 SWB-28 &lt;03&gt; 80 Allowed 0000 Off    1  WriteSectors       1 SWB-28 &lt;0B&gt; 80 Allowed 0000 Off    1  WriteLong       2 SWB-28 &lt;43&gt; 80 Allowed 0000 Off    1  ExtWrite Results for SWB-28 category w on drive 80 No commands blocked (0 of 3)       0 SWB-28 &lt;03&gt; 81 Blocked 0000 Off    0  WriteSectors       1 SWB-28 &lt;0B&gt; 81 Blocked 0000 Off    0  WriteLong       2 SWB-28 &lt;43&gt; 81 Blocked 0000 Off    0  ExtWrite Results for SWB-28 category w on drive 81 All commands blocked (3 of 3)       0 SWB-28 &lt;03&gt; 82 Blocked 0000 Off    0  WriteSectors       1 SWB-28 &lt;0B&gt; 82 Blocked 0000 Off    0  WriteLong       2 SWB-28 &lt;43&gt; 82 Blocked 0000 Off    0  ExtWrite Results for SWB-28 category w on drive 82 All commands blocked (3 of 3) Summary: 9 sent, 6 blocked, 3 not blocked  ***** Signal Log ***** </pre> |



| Case SWB-28 PDBlock Version 2.00 |  |                              |                              |
|----------------------------------|--|------------------------------|------------------------------|
|                                  |  | SIGNAL: y                    |                              |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>      | <b>Actual Results</b>        |
|                                  | AM-07  | Tool active message          | Tool active message          |
|                                  | AM-08  | 3 drives identified          | No 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  |
|                                  | AO-10  | Signal observed              | Signal observed              |
| Analysis:                        | SWB-28 Expected results not achieved for assertions: AM-08 |                              |                              |

| Case SWB-29 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-29 Install three drives, configure return code to failure, protect with pattern PUP, execute write commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 13:57:50 2004   |
| Test PC:                         | Cadfael  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 02 /fail test-hdl SWB-29 Cadfael PEB w 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 13:56:31) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,2 Return Code: FAILURE Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-29 Cadfael PEB w 64 F6 E4 Case: SWB-29 Command set: Write Date: Thu Jan 22 13:57:50 2004  Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51 @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19 Compiled on Aug 31 2003 at 08:10:54 </pre>   |

| Case SWB-29 PDBlock Version 2.00 |  |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
|----------------------------------|--|------------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|------------------------|------------------------|-------|------------------------------|------------------------------|-------|------------------------------|------------------------------|-------|-----------------------------|-----------------------------|-------|-----------------|-----------------|--|--|
|                                  | Operator: PEB<br>Host: Cadfael<br>Number of drives 3, Drives: 64 F6 E4<br><pre>           Case  Cmd Drv Action  Stat Cry Count  Cmd Name           0 SWB-29 &lt;03&gt; 80 Blocked 0300 On      0 WriteSectors           1 SWB-29 &lt;0B&gt; 80 Blocked 0300 On      0 WriteLong           2 SWB-29 &lt;43&gt; 80 Blocked 0300 On      0 ExtWrite           Results for SWB-29 category w on drive 80 All commands blocked (3 of 3)           0 SWB-29 &lt;03&gt; 81 Allowed 0000 Off     1 WriteSectors           1 SWB-29 &lt;0B&gt; 81 Allowed 0000 Off     1 WriteLong           2 SWB-29 &lt;43&gt; 81 Allowed 0000 Off     1 ExtWrite           Results for SWB-29 category w on drive 81 No commands blocked (0 of 3)           0 SWB-29 &lt;03&gt; 82 Blocked 0300 On      0 WriteSectors           1 SWB-29 &lt;0B&gt; 82 Blocked 0300 On      0 WriteLong           2 SWB-29 &lt;43&gt; 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            ***** Signal Log *****           SIGNAL: y           </pre> |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>3 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is unprotected</td> <td>Drive 81 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-11</td> <td>6 Commands return fail</td> <td>6 Commands return fail</td> </tr> <tr> <td>AO-01</td> <td>All cmds to drive 80 blocked</td> <td>All cmds to drive 80 blocked</td> </tr> <tr> <td>AO-01</td> <td>All cmds to drive 82 blocked</td> <td>All cmds to drive 82 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AO-10</td> <td>Signal observed</td> <td>Signal observed</td> </tr> </tbody> </table>   | Assertion                    | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 3 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected | AM-09 | Drive 82 is protected | Drive 82 is protected | AM-11 | 6 Commands return fail | 6 Commands return fail | AO-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked | AO-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked | AO-10 | Signal observed | Signal observed |  |  |
| Assertion                        | Expected Results   | Actual Results               |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-07                            | Tool active message  | Tool active message          |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-08                            | 3 drives identified  | No drives identified         |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-09                            | Drive 80 is protected  | Drive 80 is protected        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-09                            | Drive 81 is unprotected  | Drive 81 is unprotected      |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-09                            | Drive 82 is protected  | Drive 82 is protected        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-11                            | 6 Commands return fail   | 6 Commands return fail       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AO-01                            | All cmds to drive 80 blocked   | All cmds to drive 80 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AO-01                            | All cmds to drive 82 blocked   | All cmds to drive 82 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AO-07                            | No cmds to drive 81 blocked  | No cmds to drive 81 blocked  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AO-10                            | Signal observed  | Signal observed              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| Analysis:                        | SWB-29 Expected results not achieved for assertions: AM-08   |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                       |                       |       |                        |                        |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |

| Case SWB-30 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-30 Install three drives, configure return code to success, protect with pattern PPU, 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.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 14:02:14 2004   |
| Test PC:                         | Cadfael  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>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]<br>tally13<br>A:\pdblock 01<br>test-hdl SWB-30 Cadfael PEB w 64 F6 E4<br>Shutdown Test PC   |

| Case SWB-30 PDBlock Version 2.00 |  |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
|----------------------------------|--|------------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|---------------------------|---------------------------|-------|------------------------------|------------------------------|-------|------------------------------|------------------------------|-------|-----------------------------|-----------------------------|-------|-----------------|-----------------|--|--|
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:01:06) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-30 Cadfael PEB w 64 F6 E4 Case: SWB-30 Command set: Write Date: Thu Jan 22 14:02:14 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-30 &lt;03&gt; 80 Blocked 0000 Off 0 WriteSectors 1 SWB-30 &lt;0B&gt; 80 Blocked 0000 Off 0 WriteLong 2 SWB-30 &lt;43&gt; 80 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 80 All commands blocked (3 of 3) 0 SWB-30 &lt;03&gt; 81 Blocked 0000 Off 0 WriteSectors 1 SWB-30 &lt;0B&gt; 81 Blocked 0000 Off 0 WriteLong 2 SWB-30 &lt;43&gt; 81 Blocked 0000 Off 0 ExtWrite Results for SWB-30 category w on drive 81 All commands blocked (3 of 3) 0 SWB-30 &lt;03&gt; 82 Allowed 0000 Off 1 WriteSectors 1 SWB-30 &lt;0B&gt; 82 Allowed 0000 Off 1 WriteLong 2 SWB-30 &lt;43&gt; 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  ***** Signal Log ***** SIGNAL: y </pre> |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
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| Assertion                        | Expected Results   | Actual Results               |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-07                            | Tool active message  | Tool active message          |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AM-08                            | 3 drives identified  | No 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  |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| AO-10                            | Signal observed  | Signal observed              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |
| Analysis:                        | SWB-30 Expected results not achieved for assertions: AM-08   |                              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                              |                              |       |                              |                              |       |                             |                             |       |                 |                 |  |  |

| Case SWB-31 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-31 Install three drives, configure return code to failure, protect with pattern PUU, execute read commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for</p> |

| Case SWB-31 PDBlock Version 2.00 |   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
|----------------------------------|---|-----------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|-------------------------|-------------------------|-------|------------------------|------------------------|-------|-----------------------------|-----------------------------|--|
|                                  | <p>protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Tester Name:                     | PEB   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Test Date:                       | Thu Jan 22 14:05:59 2004  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Test PC:                         | Cadfael   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Test Software:                   | SWBT 1.0  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>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]<br>tally13<br>A:\pdblock 0 /fail<br>test-hdl SWB-31 Cadfael PEB r 64 F6 E4<br>Shutdown Test PC   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:04:47) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-31 Cadfael PEB r 64 F6 E4 Case: SWB-31 Command set: Read Date: Thu Jan 22 14:05:59 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4 Case  Cmd Drv Action  Stat Cry Count  Cmd Name 0 SWB-31 &lt;02&gt; 80 Allowed 0000 Off    1  ReadSectors 1 SWB-31 &lt;0A&gt; 80 Allowed 0000 Off    1  ReadLong 2 SWB-31 &lt;42&gt; 80 Allowed 0000 Off    1  ExtRead Results for SWB-31 category r on drive 80 No commands blocked (0 of 3) 0 SWB-31 &lt;02&gt; 81 Allowed 0000 Off    1  ReadSectors 1 SWB-31 &lt;0A&gt; 81 Allowed 0000 Off    1  ReadLong 2 SWB-31 &lt;42&gt; 81 Allowed 0000 Off    1  ExtRead Results for SWB-31 category r on drive 81 No commands blocked (0 of 3) 0 SWB-31 &lt;02&gt; 82 Allowed 0000 Off    1  ReadSectors 1 SWB-31 &lt;0A&gt; 82 Allowed 0000 Off    1  ReadLong 2 SWB-31 &lt;42&gt; 82 Allowed 0000 Off    1  ExtRead Results for SWB-31 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked  ***** Signal Log ***** SIGNAL: n           </pre> |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>3 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is unprotected</td> <td>Drive 81 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is unprotected</td> <td>Drive 82 is unprotected</td> </tr> <tr> <td>AM-11</td> <td>0 Commands return fail</td> <td>0 Commands return fail</td> </tr> <tr> <td>AO-04</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> </tbody> </table>  | Assertion                   | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 3 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected | AM-11 | 0 Commands return fail | 0 Commands return fail | AO-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |  |
| Assertion                        | Expected Results  | Actual Results              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-07                            | Tool active message   | Tool active message         |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-08                            | 3 drives identified   | No drives identified        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-09                            | Drive 80 is protected   | Drive 80 is protected       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-09                            | Drive 81 is unprotected   | Drive 81 is unprotected     |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-09                            | Drive 82 is unprotected   | Drive 82 is unprotected     |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AM-11                            | 0 Commands return fail  | 0 Commands return fail      |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |
| AO-04                            | No cmds to drive 80 blocked   | No cmds to drive 80 blocked |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                         |                         |       |                         |                         |       |                        |                        |       |                             |                             |  |

| Case SWB-31 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
|                                  | AO-07  | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
|                                  | AO-07  | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-31 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-32 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-32 Install three drives, configure return code to success, protect with pattern UPU, execute read commands.   |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 14:10:26 2004  |
| Test PC:                         | Cadfael   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 1 test-hdl SWB-32 Cadfael PEB r 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:08:54) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 1 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-32 Cadfael PEB r 64 F6 E4 Case: SWB-32 Command set: Read Date: Thu Jan 22 14:10:26 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-32 &lt;02&gt; 80 Allowed 0000 Off 1 ReadSectors 1 SWB-32 &lt;0A&gt; 80 Allowed 0000 Off 1 ReadLong 2 SWB-32 &lt;42&gt; 80 Allowed 0000 Off 1 ExtRead Results for SWB-32 category r on drive 80 No commands blocked (0 of 3) 0 SWB-32 &lt;02&gt; 81 Allowed 0000 Off 1 ReadSectors 1 SWB-32 &lt;0A&gt; 81 Allowed 0000 Off 1 ReadLong </pre> |

| Case SWB-32 PDBlock Version 2.00 |  |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
|----------------------------------|--|-----------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|---------------------------|---------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|--------------------|--------------------|--|--|
|                                  | <pre> 2 SWB-32 &lt;42&gt; 81 Allowed 0000 Off      1  ExtRead Results for SWB-32 category r on drive 81 No commands blocked (0 of 3) 0 SWB-32 &lt;02&gt; 82 Allowed 0000 Off      1  ReadSectors 1 SWB-32 &lt;0A&gt; 82 Allowed 0000 Off      1  ReadLong 2 SWB-32 &lt;42&gt; 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  ***** Signal Log ***** SIGNAL: n </pre>  |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
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| Assertion                        | Expected Results   | Actual Results              |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-07                            | Tool active message  | Tool active message         |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-08                            | 3 drives identified  | No 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 |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AO-10                            | No signal observed   | No signal observed          |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Analysis:                        | SWB-32 Expected results not achieved for assertions: AM-08   |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |

| Case SWB-33 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-33 Install three drives, configure return code to failure, protect with pattern UUP, execute read commands.   |
| Assertions Tested:               | <pre> SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. </pre> |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 14:14:20 2004  |
| Test PC:                         | Cadfael   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <pre> Drive 80, label 64 is a WDC WD64AA with 12594960 sectors Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors </pre>   |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 2 /fail test-hdl SWB-33 Cadfael PEB r 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:13:07) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 2 Return Code:      FAILURE Bell:             ON </pre>   |

| Case SWB-33 PDBlock Version 2.00  |  |                             |                             |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|---|--|-----------------------------|-----------------------------|---------|------|-------|---------------|------|-----|-------|----------|---|--------|------|----|---------|------|-----|---------------|---|--------|------|----|---------|------|-----|------------|---|--------|------|----|---------|------|-----|-----------|
| <p>Message: ON<br/> ***** Test Harness Log *****<br/> CMD: A:\TEST-HDL.EXE SWB-33 Cadfael PEB r 64 F6 E4<br/> Case: SWB-33<br/> Command set: Read<br/> Date: Thu Jan 22 14:14:20 2004</p> <p>Version: @(#) test-hdl.cpp Version 1.1 Created 08/23/03 at 10:13:51<br/> @(#) wb-defs.h Version 1.2 Created 08/31/03 at 08:18:19<br/> Compiled on Aug 31 2003 at 08:10:54</p> <p>Operator: PEB<br/> Host: Cadfael<br/> Number of drives 3, Drives: 64 F6 E4</p> <table border="1"> <thead> <tr> <th>Case</th> <th>Cmd</th> <th>Drv</th> <th>Action</th> <th>Stat</th> <th>Cry</th> <th>Count</th> <th>Cmd Name</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>SWB-33</td> <td>&lt;02&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 ReadSectors</td> </tr> <tr> <td>1</td> <td>SWB-33</td> <td>&lt;0A&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 ReadLong</td> </tr> <tr> <td>2</td> <td>SWB-33</td> <td>&lt;42&gt;</td> <td>80</td> <td>Allowed</td> <td>0000</td> <td>Off</td> <td>1 ExtRead</td> </tr> </tbody> </table> <p>Results for SWB-33 category r on drive 80 No commands blocked (0 of 3)<br/> 0 SWB-33 &lt;02&gt; 81 Allowed 0000 Off 1 ReadSectors<br/> 1 SWB-33 &lt;0A&gt; 81 Allowed 0000 Off 1 ReadLong<br/> 2 SWB-33 &lt;42&gt; 81 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-33 category r on drive 81 No commands blocked (0 of 3)<br/> 0 SWB-33 &lt;02&gt; 82 Allowed 0000 Off 1 ReadSectors<br/> 1 SWB-33 &lt;0A&gt; 82 Allowed 0000 Off 1 ReadLong<br/> 2 SWB-33 &lt;42&gt; 82 Allowed 0000 Off 1 ExtRead</p> <p>Results for SWB-33 category r on drive 82 No commands blocked (0 of 3)<br/> Summary: 9 sent, 0 blocked, 9 not blocked</p> <p>***** Signal Log *****<br/> SIGNAL: n</p> |  |                             |                             | Case    | Cmd  | Drv   | Action        | Stat | Cry | Count | Cmd Name | 0 | SWB-33 | <02> | 80 | Allowed | 0000 | Off | 1 ReadSectors | 1 | SWB-33 | <0A> | 80 | Allowed | 0000 | Off | 1 ReadLong | 2 | SWB-33 | <42> | 80 | Allowed | 0000 | Off | 1 ExtRead |
| Case  | Cmd  | Drv                         | Action                      | Stat    | Cry  | Count | Cmd Name      |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
| 0   | SWB-33   | <02>                        | 80                          | Allowed | 0000 | Off   | 1 ReadSectors |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
| 1   | SWB-33   | <0A>                        | 80                          | Allowed | 0000 | Off   | 1 ReadLong    |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
| 2   | SWB-33   | <42>                        | 80                          | Allowed | 0000 | Off   | 1 ExtRead     |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
| Results:  | <b>Assertion</b>   | <b>Expected Results</b>     | <b>Actual Results</b>       |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-07  | Tool active message         | Tool active message         |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-08  | 3 drives identified         | No drives identified        |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-09  | Drive 80 is unprotected     | Drive 80 is unprotected     |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-09  | Drive 81 is unprotected     | Drive 81 is unprotected     |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-09  | Drive 82 is protected       | Drive 82 is protected       |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AM-11  | 0 Commands return fail      | 0 Commands return fail      |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AO-04  | No cmds to drive 82 blocked | No cmds to drive 82 blocked |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AO-07  | No cmds to drive 80 blocked | No cmds to drive 80 blocked |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AO-07  | No cmds to drive 81 blocked | No cmds to drive 81 blocked |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
|   | AO-10  | No signal observed          | No signal observed          |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |
| Analysis:   | SWB-33 Expected results not achieved for assertions: AM-08 |                             |                             |         |      |       |               |      |     |       |          |   |        |      |    |         |      |     |               |   |        |      |    |         |      |     |            |   |        |      |    |         |      |     |           |

| Case SWB-34 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-34 Install three drives, configure return code to success, protect with pattern UPP, execute read commands.   |
| Assertions Tested:               | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 14:20:11 2004  |
| Test PC:                         | Cadfael   |

| Case SWB-34 PDBlock Version 2.00 |  |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
|----------------------------------|--|-----------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-------------------------|-------------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|---------------------------|---------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|--------------------|--------------------|--|--|
| Test Software:                   | SWBT 1.0   |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Hard Drives Used:                | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>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]<br>tally13<br>A:\pdblock 12<br>test-hdl SWB-34 Cadfael PEB r 64 F6 E4<br>Shutdown Test PC   |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:19:00) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 1,2 Return Code:      SUCCESS Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-34 Cadfael PEB r 64 F6 E4 Case: SWB-34 Command set: Read Date: Thu Jan 22 14:20:11 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4 Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-34 &lt;02&gt; 80 Allowed 0000 Off 1 ReadSectors 1 SWB-34 &lt;0A&gt; 80 Allowed 0000 Off 1 ReadLong 2 SWB-34 &lt;42&gt; 80 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 80 No commands blocked (0 of 3) 0 SWB-34 &lt;02&gt; 81 Allowed 0000 Off 1 ReadSectors 1 SWB-34 &lt;0A&gt; 81 Allowed 0000 Off 1 ReadLong 2 SWB-34 &lt;42&gt; 81 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 81 No commands blocked (0 of 3) 0 SWB-34 &lt;02&gt; 82 Allowed 0000 Off 1 ReadSectors 1 SWB-34 &lt;0A&gt; 82 Allowed 0000 Off 1 ReadLong 2 SWB-34 &lt;42&gt; 82 Allowed 0000 Off 1 ExtRead Results for SWB-34 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked  ***** Signal Log ***** SIGNAL: n </pre> |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>3 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is unprotected</td> <td>Drive 80 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is protected</td> <td>Drive 81 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is protected</td> <td>Drive 82 is protected</td> </tr> <tr> <td>AM-10</td> <td>0 Commands return success</td> <td>0 Commands return success</td> </tr> <tr> <td>AO-04</td> <td>No cmds to drive 81 blocked</td> <td>No cmds to drive 81 blocked</td> </tr> <tr> <td>AO-04</td> <td>No cmds to drive 82 blocked</td> <td>No cmds to drive 82 blocked</td> </tr> <tr> <td>AO-07</td> <td>No cmds to drive 80 blocked</td> <td>No cmds to drive 80 blocked</td> </tr> <tr> <td>AO-10</td> <td>No signal observed</td> <td>No signal observed</td> </tr> </tbody> </table>   | Assertion                   | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 3 drives identified | No 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 | AO-10 | No signal observed | No signal observed |  |  |
| Assertion                        | Expected Results   | Actual Results              |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-07                            | Tool active message  | Tool active message         |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-08                            | 3 drives identified  | No 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 |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AO-10                            | No signal observed   | No signal observed          |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Analysis:                        | SWB-34 Expected results not achieved for assertions: AM-08   |                             |                  |                |       |                     |                     |       |                     |                      |       |                         |                         |       |                       |                       |       |                       |                       |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |

| Case SWB-35 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-35 Install three drives, configure return code to failure, protect with pattern PUP, execute read commands. |
| Assertions Tested:               | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.      |



| Case SWB-35 PDBlock Version 2.00 |   |
|----------------------------------|---|
|                                  | <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | PEB   |
| Test Date:                       | Thu Jan 22 14:24:43 2004  |
| Test PC:                         | Cadfael   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>   |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 02 /fail</p> <p>test-hdl SWB-35 Cadfael PEB r 64 F6 E4</p> <p>Shutdown Test PC</p>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:23:27) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,2 Return Code:      FAILURE Bell:             ON Message:          ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-35 Cadfael PEB r 64 F6 E4 Case: SWB-35 Command set: Read Date: Thu Jan 22 14:24:43 2004  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: PEB Host: Cadfael Number of drives 3, Drives: 64 F6 E4   Case  Cmd Drv Action  Stat Cry Count  Cmd Name   0 SWB-35 &lt;02&gt; 80 Allowed 0000 Off    1  ReadSectors   1 SWB-35 &lt;0A&gt; 80 Allowed 0000 Off    1  ReadLong   2 SWB-35 &lt;42&gt; 80 Allowed 0000 Off    1  ExtRead Results for SWB-35 category r on drive 80 No commands blocked (0 of 3)   0 SWB-35 &lt;02&gt; 81 Allowed 0000 Off    1  ReadSectors   1 SWB-35 &lt;0A&gt; 81 Allowed 0000 Off    1  ReadLong   2 SWB-35 &lt;42&gt; 81 Allowed 0000 Off    1  ExtRead Results for SWB-35 category r on drive 81 No commands blocked (0 of 3)   0 SWB-35 &lt;02&gt; 82 Allowed 0000 Off    1  ReadSectors   1 SWB-35 &lt;0A&gt; 82 Allowed 0000 Off    1  ReadLong   2 SWB-35 &lt;42&gt; 82 Allowed 0000 Off    1  ExtRead Results for SWB-35 category r on drive 82 No commands blocked (0 of 3) Summary: 9 sent, 0 blocked, 9 not blocked  ***** Signal Log ***** SIGNAL: n </pre> |

| Case SWB-35 PDBlock Version 2.00 |  |                             |                             |
|----------------------------------|--|-----------------------------|-----------------------------|
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>     | <b>Actual Results</b>       |
|                                  | AM-07  | Tool active message         | Tool active message         |
|                                  | AM-08  | 3 drives identified         | No drives identified        |
|                                  | AM-09  | Drive 80 is protected       | Drive 80 is protected       |
|                                  | AM-09  | Drive 81 is unprotected     | Drive 81 is unprotected     |
|                                  | AM-09  | Drive 82 is protected       | Drive 82 is protected       |
|                                  | AM-11  | 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 |
|                                  | AO-10  | No signal observed          | No signal observed          |
| Analysis:                        | SWB-35 Expected results not achieved for assertions: AM-08 |                             |                             |

| Case SWB-36 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Case summary:                    | SWB-36 Install three drives, configure return code to success, protect with pattern PPU, execute read commands.  |
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset.</p> <p>SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p> |
| Tester Name:                     | PEB  |
| Test Date:                       | Thu Jan 22 14:28:49 2004   |
| Test PC:                         | Cadfael  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 64 is a WDC WD64AA with 12594960 sectors</p> <p>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors</p> <p>Drive 82, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] tally13 A:\pdblock 01 test-hdl SWB-36 Cadfael PEB r 64 F6 E4 Shutdown Test PC </pre>  |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/22/04 at 14:27:34) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-36 Cadfael PEB r 64 F6 E4 Case: SWB-36 Command set: Read Date: Thu Jan 22 14:28:49 2004  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: PEB </pre>  |

| Case SWB-36 PDBlock Version 2.00 |  |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
|----------------------------------|--|-----------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|---------------------------|---------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|-----------------------------|-----------------------------|-------|--------------------|--------------------|--|--|
|                                  | Host: Cadfael<br>Number of drives 3, Drives: 64 F6 E4<br>Case Cmd Drv Action Stat Cry Count Cmd Name<br>0 SWB-36 <02> 80 Allowed 0000 Off 1 ReadSectors<br>1 SWB-36 <0A> 80 Allowed 0000 Off 1 ReadLong<br>2 SWB-36 <42> 80 Allowed 0000 Off 1 ExtRead<br>Results for SWB-36 category r on drive 80 No commands blocked (0 of 3)<br>0 SWB-36 <02> 81 Allowed 0000 Off 1 ReadSectors<br>1 SWB-36 <0A> 81 Allowed 0000 Off 1 ReadLong<br>2 SWB-36 <42> 81 Allowed 0000 Off 1 ExtRead<br>Results for SWB-36 category r on drive 81 No commands blocked (0 of 3)<br>0 SWB-36 <02> 82 Allowed 0000 Off 1 ReadSectors<br>1 SWB-36 <0A> 82 Allowed 0000 Off 1 ReadLong<br>2 SWB-36 <42> 82 Allowed 0000 Off 1 ExtRead<br>Results for SWB-36 category r on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 0 blocked, 9 not blocked<br><br>***** Signal Log *****<br>SIGNAL: n   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
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| Assertion                        | Expected Results   | Actual Results              |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-07                            | Tool active message  | Tool active message         |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AM-08                            | 3 drives identified  | No 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 |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| AO-10                            | No signal observed   | No signal observed          |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |
| Analysis:                        | SWB-36 Expected results not achieved for assertions: AM-08   |                             |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                           |                           |       |                             |                             |       |                             |                             |       |                             |                             |       |                    |                    |  |  |

| Case SWB-37 PDBlock Version 2.00 |  |
|----------------------------------|--|
| 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.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>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.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | JRL  |
| Test Date:                       | Fri Jan 23 15:56:12 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors   |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>tally13<br>A:\pdblock 13 /fail<br>test-hdl SWB-37 Rumpole JRL a 6F 90 2B 1F<br>Shutdown Test PC  |

**Case SWB-37 PDBlock Version 2.00**

```

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 (01/23/04 at 15:51:46) Going . . . TSR
***** Install PDB Log *****
PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er
Drives Protected: 1,3
Return Code: FAILURE
Bell: ON
Message: ON
***** Test Harness Log *****
CMD: A:\TEST-HDL.EXE SWB-37 Rumpole JRL a 6F 90 2B 1F
Case: SWB-37
Command set: All
Date: Fri Jan 23 15:56:12 2004

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: 6F 90 2B 1F
Case Cmd Drv Action Stat Cry Count Cmd Name
0 SWB-37 <03> 80 Allowed 0000 Off 1 WriteSectors
1 SWB-37 <0B> 80 Allowed 0000 Off 1 WriteLong
2 SWB-37 <43> 80 Allowed 0000 Off 1 ExtWrite
Results for SWB-37 category w on drive 80 No commands blocked (0 of 3)
0 SWB-37 <03> 81 Blocked 0300 On 0 WriteSectors
1 SWB-37 <0B> 81 Blocked 0300 On 0 WriteLong
2 SWB-37 <43> 81 Blocked 0300 On 0 ExtWrite
Results for SWB-37 category w on drive 81 All commands blocked (3 of 3)
0 SWB-37 <03> 82 Allowed 0000 Off 1 WriteSectors
1 SWB-37 <0B> 82 Allowed 0000 Off 1 WriteLong
2 SWB-37 <43> 82 Allowed 0000 Off 1 ExtWrite
Results for SWB-37 category w on drive 82 No commands blocked (0 of 3)
0 SWB-37 <03> 83 Blocked 0300 On 0 WriteSectors
1 SWB-37 <0B> 83 Blocked 0300 On 0 WriteLong
2 SWB-37 <43> 83 Blocked 0300 On 0 ExtWrite
Results for SWB-37 category w on drive 83 All commands blocked (3 of 3)
Summary: 12 sent, 6 blocked, 6 not blocked

***** Signal Log *****
SIGNAL: y
    
```

| Results: | Assertion | Expected Results             | Actual Results               |
|----------|-----------|------------------------------|------------------------------|
|          | AM-07     | Tool active message          | Tool active message          |
|          | AM-08     | 4 drives identified          | No drives identified         |
|          | AM-09     | Drive 80 is unprotected      | Drive 80 is unprotected      |
|          | AM-09     | Drive 81 is protected        | Drive 81 is protected        |
|          | AM-09     | Drive 82 is unprotected      | Drive 82 is unprotected      |
|          | AM-09     | Drive 83 is protected        | Drive 83 is protected        |
|          | AM-11     | 6 Commands return fail       | 6 Commands return fail       |
|          | AO-08     | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
|          | AO-08     | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
|          | AO-08     | No cmds to drive 80 blocked  | No cmds to drive 80 blocked  |
|          | AO-08     | No cmds to drive 82 blocked  | No cmds to drive 82 blocked  |
|          | AO-10     | Signal observed              | Signal observed              |

Analysis: SWB-37 Expected results not achieved for assertions: AM-08

**Case SWB-38 PDBlock Version 2.00**

Case summary: SWB-38 Install all drives, configure to be active at boot and shutdown, configure return code to success, protect with pattern even, execute write commands.

Assertions Tested: SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.  
 SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.

| Case SWB-38 PDBlock Version 2.00 |  |
|----------------------------------|--|
|                                  | <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-08. If the tool is active during the operating system boot and shutdown processes then no changes are made to any protected drives.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>   |
| Tester Name:                     | JRL  |
| Test Date:                       | Fri Jan 23 16:02:24 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <p>Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]</p> <p>tally13</p> <p>A:\pdblock 02</p> <p>test-hdl SWB-38 Rumpole JRL a 6F 90 2B 1F</p> <p>Shutdown Test PC</p>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/23/04 at 15:58:34) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,2 Return Code: SUCCESS Bell: ON Message: ON ***** Test Harness Log ***** CMD: A:\TEST-HDL.EXE SWB-38 Rumpole JRL a 6F 90 2B 1F Case: SWB-38 Command set: All Date: Fri Jan 23 16:02:24 2004  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: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-38 &lt;03&gt; 80 Blocked 0000 Off 0 WriteSectors 1 SWB-38 &lt;0B&gt; 80 Blocked 0000 Off 0 WriteLong 2 SWB-38 &lt;43&gt; 80 Blocked 0000 Off 0 ExtWrite Results for SWB-38 category w on drive 80 All commands blocked (3 of 3) 0 SWB-38 &lt;03&gt; 81 Allowed 0000 Off 1 WriteSectors 1 SWB-38 &lt;0B&gt; 81 Allowed 0000 Off 1 WriteLong 2 SWB-38 &lt;43&gt; 81 Allowed 0000 Off 1 ExtWrite Results for SWB-38 category w on drive 81 No commands blocked (0 of 3) 0 SWB-38 &lt;03&gt; 82 Blocked 0000 Off 0 WriteSectors 1 SWB-38 &lt;0B&gt; 82 Blocked 0000 Off 0 WriteLong 2 SWB-38 &lt;43&gt; 82 Blocked 0000 Off 0 ExtWrite Results for SWB-38 category w on drive 82 All commands blocked (3 of 3) 0 SWB-38 &lt;03&gt; 83 Allowed 0000 Off 1 WriteSectors 1 SWB-38 &lt;0B&gt; 83 Allowed 0000 Off 1 WriteLong 2 SWB-38 &lt;43&gt; 83 Allowed 0000 Off 1 ExtWrite Results for SWB-38 category w on drive 83 No commands blocked (0 of 3) Summary: 12 sent, 6 blocked, 6 not blocked </pre> |

| Case SWB-38 PDBlock Version 2.00 |  |                              |                              |
|----------------------------------|--|------------------------------|------------------------------|
|                                  | ***** Signal Log *****<br>SIGNAL: y                        |                              |                              |
| Results:                         | <b>Assertion</b>   | <b>Expected Results</b>      | <b>Actual Results</b>        |
|                                  | AM-07  | Tool active message          | Tool active message          |
|                                  | AM-08  | 4 drives identified          | No drives identified         |
|                                  | AM-09  | Drive 80 is protected        | Drive 80 is protected        |
|                                  | AM-09  | Drive 81 is unprotected      | Drive 81 is unprotected      |
|                                  | AM-09  | Drive 82 is protected        | Drive 82 is protected        |
|                                  | AM-09  | Drive 83 is unprotected      | Drive 83 is unprotected      |
|                                  | AM-10  | 6 Commands return success    | 6 Commands return success    |
|                                  | AO-08  | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
|                                  | AO-08  | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
|                                  | AO-08  | No cmds to drive 81 blocked  | No cmds to drive 81 blocked  |
|                                  | AO-08  | No cmds to drive 83 blocked  | No cmds to drive 83 blocked  |
|                                  | AO-10  | Signal observed              | Signal observed              |
| Analysis:                        | SWB-38 Expected results not achieved for assertions: AM-08 |                              |                              |

| Case SWB-39 PDBlock Version 2.00 |   |
|----------------------------------|---|
| Case summary:                    | SWB-39 Install all drives, configure return code to failure, protect with pattern high, execute write commands, uninstall, execute all commands.  |
| Assertions Tested:               | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.<br>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.<br>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.<br>SWB-AO-09. If the tool is active and the tool is then uninstalled then no commands to any drive shall be blocked.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name:                     | JRL   |
| Test Date:                       | Fri Jan 23 15:43:17 2004  |
| Test PC:                         | Rumpole   |
| Test Software:                   | SWBT 1.0  |
| Hard Drives Used:                | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors<br>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors  |
| Commands executed:               | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 23 /fail<br>A:\test-hdl SWB-39 Rumpole JRL w 6F 90 2B 1F<br>A:\sig-log SWB-39 Rumpole JRL<br>A:\t-off SWB-39 Rumpole JRL<br>ren A:\swb-log.txt wt-log.txt<br>ren A:\sig-log.txt sg-wt.txt<br>A:\pdblock none<br>A:\test-hdl SWB-39 Rumpole JRL a 6F 90 2B 1F<br>A:\sig-log SWB-39 Rumpole JRL<br>Shutdown Test PC  |
| Log File Highlights:             | ***** Monitor Execution *****<br>Monitor BIOS interrupt 13h (disk service)<br>tally13 compiled on 07/29/03 at 07:33:17<br>@(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (01/23/04 at 15:42:32) Going . . . TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2,3<br>Return Code: FAILURE<br>Bell: ON  |

Case SWB-39 PDBlock Version 2.00

```
Message: ON
***** Blocked Write Commands *****
CMD: A:\TEST-HDL.EXE SWB-39 Rumpole JRL w 6F 90 2B 1F
Case: SWB-39
Command set: Write
Date: Fri Jan 23 15:42:53 2004

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: 6F 90 2B 1F
  Case Cmd Drv Action Stat Cry Count Cmd Name
  0 SWB-39 <03> 80 Allowed 0000 Off 1 WriteSectors
  1 SWB-39 <0B> 80 Allowed 0000 Off 1 WriteLong
  2 SWB-39 <43> 80 Allowed 0000 Off 1 ExtWrite
Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)
  0 SWB-39 <03> 81 Allowed 0000 Off 1 WriteSectors
  1 SWB-39 <0B> 81 Allowed 0000 Off 1 WriteLong
  2 SWB-39 <43> 81 Allowed 0000 Off 1 ExtWrite
Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)
  0 SWB-39 <03> 82 Blocked 0300 On 0 WriteSectors
  1 SWB-39 <0B> 82 Blocked 0300 On 0 WriteLong
  2 SWB-39 <43> 82 Blocked 0300 On 0 ExtWrite
Results for SWB-39 category w on drive 82 All commands blocked (3 of 3)
  0 SWB-39 <03> 83 Blocked 0300 On 0 WriteSectors
  1 SWB-39 <0B> 83 Blocked 0300 On 0 WriteLong
  2 SWB-39 <43> 83 Blocked 0300 On 0 ExtWrite
Results for SWB-39 category w on drive 83 All commands blocked (3 of 3)
Summary: 12 sent, 6 blocked, 6 not blocked

Number of Commands not blocked (should total to 6)
Drive Count
  80 3
  81 3
  82 0
  83 0
***** Uninstall PDB Log *****
PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er
Drives Protected: NONE
Return Code: SUCCESS
Bell: ON
Message: ON
***** Test Harness Log *****
CMD: A:\TEST-HDL.EXE SWB-39 Rumpole JRL a 6F 90 2B 1F
Case: SWB-39
Command set: All
Date: Fri Jan 23 15:43:17 2004

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: 6F 90 2B 1F
Warning: non-zero tally (3) for drive 80 (reboot to clear)
Warning: non-zero tally (3) for drive 81 (reboot to clear)
  Case Cmd Drv Action Stat Cry Count Cmd Name
  0 SWB-39 <00> 80 Allowed 0000 Off 1 Reset
  1 SWB-39 <0C> 80 Allowed 0000 Off 1 SeekDrive
  2 SWB-39 <0D> 80 Allowed 0000 Off 1 AltReset
  3 SWB-39 <11> 80 Allowed 0000 Off 1 Recalibrate
  4 SWB-39 <47> 80 Allowed 0000 Off 1 ExtendedSeek
Results for SWB-39 category c on drive 80 No commands blocked (0 of 5)
  0 SWB-39 <00> 81 Allowed 0000 Off 1 Reset
  1 SWB-39 <0C> 81 Allowed 0000 Off 1 SeekDrive
  2 SWB-39 <0D> 81 Allowed 0000 Off 1 AltReset
```

Case SWB-39 PDBlock Version 2.00

```

3 SWB-39 <11> 81 Allowed 0000 Off 1 Recalibrate
4 SWB-39 <47> 81 Allowed 0000 Off 1 ExtendedSeek
Results for SWB-39 category c on drive 81 No commands blocked (0 of 5)
0 SWB-39 <00> 82 Allowed 0000 Off 1 Reset
1 SWB-39 <0C> 82 Allowed 0000 Off 1 SeekDrive
2 SWB-39 <0D> 82 Allowed 0000 Off 1 AltReset
3 SWB-39 <11> 82 Allowed 0000 Off 1 Recalibrate
4 SWB-39 <47> 82 Allowed 0000 Off 1 ExtendedSeek
Results for SWB-39 category c on drive 82 No commands blocked (0 of 5)
0 SWB-39 <00> 83 Allowed 0000 Off 1 Reset
1 SWB-39 <0C> 83 Allowed 0000 Off 1 SeekDrive
2 SWB-39 <0D> 83 Allowed 0000 Off 1 AltReset
3 SWB-39 <11> 83 Allowed 0000 Off 1 Recalibrate
4 SWB-39 <47> 83 Allowed 0000 Off 1 ExtendedSeek
Results for SWB-39 category c on drive 83 No commands blocked (0 of 5)
Summary: 20 sent, 0 blocked, 20 not blocked

0 SWB-39 <01> 80 Allowed 0000 Off 1 GetLastStatus
1 SWB-39 <04> 80 Allowed 0000 Off 1 VerifySectors
2 SWB-39 <08> 80 Allowed 0000 Off 1 ReadDriveParms
3 SWB-39 <10> 80 Allowed 0000 Off 1 TestDriveReady
4 SWB-39 <15> 80 Allowed 0000 Off 1 ReadDriveType
5 SWB-39 <41> 80 Allowed 0000 Off 1 CheckForExtensions
6 SWB-39 <44> 80 Allowed 0000 Off 1 VerifySectors
7 SWB-39 <48> 80 Allowed 0000 Off 1 GetDriveParms
Results for SWB-39 category i on drive 80 No commands blocked (0 of 8)
0 SWB-39 <01> 81 Allowed 0000 Off 1 GetLastStatus
1 SWB-39 <04> 81 Allowed 0000 Off 1 VerifySectors
2 SWB-39 <08> 81 Allowed 0000 Off 1 ReadDriveParms
3 SWB-39 <10> 81 Allowed 0000 Off 1 TestDriveReady
4 SWB-39 <15> 81 Allowed 0000 Off 1 ReadDriveType
5 SWB-39 <41> 81 Allowed 0000 Off 1 CheckForExtensions
6 SWB-39 <44> 81 Allowed 0000 Off 1 VerifySectors
7 SWB-39 <48> 81 Allowed 0000 Off 1 GetDriveParms
Results for SWB-39 category i on drive 81 No commands blocked (0 of 8)
0 SWB-39 <01> 82 Allowed 0000 Off 1 GetLastStatus
1 SWB-39 <04> 82 Allowed 0000 Off 1 VerifySectors
2 SWB-39 <08> 82 Allowed 0000 Off 1 ReadDriveParms
3 SWB-39 <10> 82 Allowed 0000 Off 1 TestDriveReady
4 SWB-39 <15> 82 Allowed 0000 Off 1 ReadDriveType
5 SWB-39 <41> 82 Allowed 0000 Off 1 CheckForExtensions
6 SWB-39 <44> 82 Allowed 0000 Off 1 VerifySectors
7 SWB-39 <48> 82 Allowed 0000 Off 1 GetDriveParms
Results for SWB-39 category i on drive 82 No commands blocked (0 of 8)
0 SWB-39 <01> 83 Allowed 0000 Off 1 GetLastStatus
1 SWB-39 <04> 83 Allowed 0000 Off 1 VerifySectors
2 SWB-39 <08> 83 Allowed 0000 Off 1 ReadDriveParms
3 SWB-39 <10> 83 Allowed 0000 Off 1 TestDriveReady
4 SWB-39 <15> 83 Allowed 0000 Off 1 ReadDriveType
5 SWB-39 <41> 83 Allowed 0000 Off 1 CheckForExtensions
6 SWB-39 <44> 83 Allowed 0000 Off 1 VerifySectors
7 SWB-39 <48> 83 Allowed 0000 Off 1 GetDriveParms
Results for SWB-39 category i on drive 83 No commands blocked (0 of 8)
Summary: 32 sent, 0 blocked, 32 not blocked

0 SWB-39 <02> 80 Allowed 0000 Off 1 ReadSectors
1 SWB-39 <0A> 80 Allowed 0000 Off 1 ReadLong
2 SWB-39 <42> 80 Allowed 0000 Off 1 ExtRead
Results for SWB-39 category r on drive 80 No commands blocked (0 of 3)
0 SWB-39 <02> 81 Allowed 0000 Off 1 ReadSectors
1 SWB-39 <0A> 81 Allowed 0000 Off 1 ReadLong
2 SWB-39 <42> 81 Allowed 0000 Off 1 ExtRead
Results for SWB-39 category r on drive 81 No commands blocked (0 of 3)
0 SWB-39 <02> 82 Allowed 0000 Off 1 ReadSectors
1 SWB-39 <0A> 82 Allowed 0000 Off 1 ReadLong
2 SWB-39 <42> 82 Allowed 0000 Off 1 ExtRead
Results for SWB-39 category r on drive 82 No commands blocked (0 of 3)
0 SWB-39 <02> 83 Allowed 0000 Off 1 ReadSectors
1 SWB-39 <0A> 83 Allowed 0000 Off 1 ReadLong

```



Case SWB-39 PDBlock Version 2.00

```
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)
Summary: 12 sent, 0 blocked, 12 not blocked

0 SWB-39 <03> 80 Allowed 0000 Off      2 WriteSectors
1 SWB-39 <0B> 80 Allowed 0000 Off      2 WriteLong
2 SWB-39 <43> 80 Allowed 0000 Off      2 ExtWrite
Results for SWB-39 category w on drive 80 No commands blocked (0 of 3)
0 SWB-39 <03> 81 Allowed 0000 Off      2 WriteSectors
1 SWB-39 <0B> 81 Allowed 0000 Off      2 WriteLong
2 SWB-39 <43> 81 Allowed 0000 Off      2 ExtWrite
Results for SWB-39 category w on drive 81 No commands blocked (0 of 3)
0 SWB-39 <03> 82 Allowed 0000 Off      1 WriteSectors
1 SWB-39 <0B> 82 Allowed 0000 Off      1 WriteLong
2 SWB-39 <43> 82 Allowed 0000 Off      1 ExtWrite
Results for SWB-39 category w on drive 82 No commands blocked (0 of 3)
0 SWB-39 <03> 83 Allowed 0000 Off      1 WriteSectors
1 SWB-39 <0B> 83 Allowed 0000 Off      1 WriteLong
2 SWB-39 <43> 83 Allowed 0000 Off      1 ExtWrite
Results for SWB-39 category w on drive 83 No commands blocked (0 of 3)
Summary: 12 sent, 0 blocked, 12 not blocked

0 SWB-39 <05> 80 Allowed 0000 Off      1 FormatTrack
1 SWB-39 <06> 80 Allowed 0000 Off      1 FormatBadSectors
2 SWB-39 <07> 80 Allowed 0000 Off      1 FormatCyl
3 SWB-39 <09> 80 Allowed 0000 Off      1 InitDriveParms
4 SWB-39 <0E> 80 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-39 <0F> 80 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-39 <12> 80 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-39 <13> 80 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-39 <14> 80 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-39 category x on drive 80 No commands blocked (0 of 9)
0 SWB-39 <05> 81 Allowed 0000 Off      1 FormatTrack
1 SWB-39 <06> 81 Allowed 0000 Off      1 FormatBadSectors
2 SWB-39 <07> 81 Allowed 0000 Off      1 FormatCyl
3 SWB-39 <09> 81 Allowed 0000 Off      1 InitDriveParms
4 SWB-39 <0E> 81 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-39 <0F> 81 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-39 <12> 81 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-39 <13> 81 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-39 <14> 81 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-39 category x on drive 81 No commands blocked (0 of 9)
0 SWB-39 <05> 82 Allowed 0000 Off      1 FormatTrack
1 SWB-39 <06> 82 Allowed 0000 Off      1 FormatBadSectors
2 SWB-39 <07> 82 Allowed 0000 Off      1 FormatCyl
3 SWB-39 <09> 82 Allowed 0000 Off      1 InitDriveParms
4 SWB-39 <0E> 82 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-39 <0F> 82 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-39 <12> 82 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-39 <13> 82 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-39 <14> 82 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-39 category x on drive 82 No commands blocked (0 of 9)
0 SWB-39 <05> 83 Allowed 0000 Off      1 FormatTrack
1 SWB-39 <06> 83 Allowed 0000 Off      1 FormatBadSectors
2 SWB-39 <07> 83 Allowed 0000 Off      1 FormatCyl
3 SWB-39 <09> 83 Allowed 0000 Off      1 InitDriveParms
4 SWB-39 <0E> 83 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-39 <0F> 83 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-39 <12> 83 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-39 <13> 83 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-39 <14> 83 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-39 category x on drive 83 No commands blocked (0 of 9)
Summary: 36 sent, 0 blocked, 36 not blocked

0 SWB-39 <16> 80 Allowed 0000 Off      1 Undefined
...

misc commands 17-FD results omitted
```

**Case SWB-39 PDBlock Version 2.00**

```

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 Not all commands blocked (1
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 Not all commands blocked (1
of 228)
  0 SWB-39 <16> 82 Allowed 0000 Off      1 Undefined
...

misc commands 17-FD results omitted

see log files for full results

...

226 SWB-39 <FE> 82 Allowed 0000 Off      1 Undefined
227 SWB-39 <FF> 82 Allowed 0000 Off      1 Undefined
Results for SWB-39 category m on drive 82 Not all commands blocked (1
of 228)
  0 SWB-39 <16> 83 Allowed 0000 Off      1 Undefined
...

misc commands 17-FD results omitted

see log files for full results

...

226 SWB-39 <FE> 83 Allowed 0000 Off      1 Undefined
227 SWB-39 <FF> 83 Allowed 0000 Off      1 Undefined
Results for SWB-39 category m on drive 83 Not all commands blocked (1
of 228)
Summary: 912 sent, 4 blocked, 908 not blocked

**** Signal Log ****
SIGNAL: n
    
```

| Results: | Assertion | Expected Results        | Actual Results          |
|----------|-----------|-------------------------|-------------------------|
|          | AM-07     | Tool active message     | Tool active message     |
|          | AM-08     | 4 drives identified     | No drives identified    |
|          | AM-09     | Drive 80 is unprotected | Drive 80 is unprotected |
|          | AM-09     | Drive 81 is unprotected | Drive 81 is unprotected |
|          | AM-09     | Drive 82 is protected   | Drive 82 is protected   |
|          | AM-09     | Drive 83 is protected   | Drive 83 is protected   |
|          | AM-11     | 4 Commands return fail  | 4 Commands return fail  |
|          | AO-09     | SWB removed             | Some cmds blocked       |
|          | AO-10     | No signal observed      | No signal observed      |

Analysis: SWB-39 Expected results not achieved for assertions: AM-08 AO-09

**Case SWB-40 PDBlock Version 2.00**

Case summary: SWB-40 Install all drives, configure return code to success, protect with pattern low, execute write commands, uninstall, execute all commands.

| Case SWB-40 PDBlock Version 2.00 |  |
|----------------------------------|--|
| Assertions Tested:               | <p>SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.</p> <p>SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces.</p> <p>SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface.</p> <p>SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution.</p> <p>SWB-AO-09. If the tool is active and the tool is then uninstalled then no commands to any drive shall be blocked.</p> <p>SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal.</p>  |
| Tester Name:                     | JRL  |
| Test Date:                       | Fri Jan 23 15:49:13 2004   |
| Test PC:                         | Rumpole  |
| Test Software:                   | SWBT 1.0   |
| Hard Drives Used:                | <p>Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors</p> <p>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors</p> <p>Drive 82, label 2B is a Quantum QM39100TD-SCA Drive with 17783249 sectors</p> <p>Drive 83, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548 sectors</p>  |
| Commands executed:               | <pre> Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] A:\tally13 A:\pdblock 01 A:\test-hdl SWB-40 Rumpole JRL w 6F 90 2B 1F A:\sig-log SWB-40 Rumpole JRL A:\t-off SWB-40 Rumpole JRL ren A:\swb-log.txt wt-log.txt ren A:\sig-log.txt sg-wt.txt A:\pdblock none A:\test-hdl SWB-40 Rumpole JRL a 6F 90 2B 1F A:\sig-log SWB-40 Rumpole JRL Shutdown Test PC </pre>   |
| Log File Highlights:             | <pre> ***** Monitor Execution ***** Monitor BIOS interrupt 13h (disk service) tally13 compiled on 07/29/03 at 07:33:17 @(#) Version 1.1 Created 07/29/03 at 07:28:05 Now (01/23/04 at 15:48:14) Going . . . TSR ***** Install PDB Log ***** PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er Drives Protected: 0,1 Return Code: SUCCESS Bell: ON Message: ON ***** Blocked Write Commands ***** CMD: A:\TEST-HDL.EXE SWB-40 Rumpole JRL w 6F 90 2B 1F Case: SWB-40 Command set: Write Date: Fri Jan 23 15:48:35 2004  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: 6F 90 2B 1F Case Cmd Drv Action Stat Cry Count Cmd Name 0 SWB-40 &lt;03&gt; 80 Blocked 0000 Off 0 WriteSectors 1 SWB-40 &lt;0B&gt; 80 Blocked 0000 Off 0 WriteLong 2 SWB-40 &lt;43&gt; 80 Blocked 0000 Off 0 ExtWrite Results for SWB-40 category w on drive 80 All commands blocked (3 of 3) 0 SWB-40 &lt;03&gt; 81 Blocked 0000 Off 0 WriteSectors 1 SWB-40 &lt;0B&gt; 81 Blocked 0000 Off 0 WriteLong 2 SWB-40 &lt;43&gt; 81 Blocked 0000 Off 0 ExtWrite Results for SWB-40 category w on drive 81 All commands blocked (3 of 3) 0 SWB-40 &lt;03&gt; 82 Allowed 0000 Off 1 WriteSectors </pre> |

Case SWB-40 PDBlock Version 2.00

```
1 SWB-40 <0B> 82 Allowed 0000 Off 1 WriteLong
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    | 0     |
| 81    | 0     |
| 82    | 3     |
| 83    | 3     |

\*\*\*\*\* Uninstall PDB Log \*\*\*\*\*

PDBlock Version 2.00: (P)hysical (D)isk Write (BLOCK)er  
Drives Protected: NONE  
Return Code: SUCCESS  
Bell: ON  
Message: ON

\*\*\*\*\* Test Harness Log \*\*\*\*\*

CMD: A:\TEST-HDL.EXE SWB-40 Rumpole JRL a 6F 90 2B 1F  
Case: SWB-40  
Command set: All  
Date: Fri Jan 23 15:49:13 2004

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: 6F 90 2B 1F

Warning: non-zero tally (3) for drive 82 (reboot to clear)

Warning: non-zero tally (3) for drive 83 (reboot to clear)

| Case   | Cmd    | Drv  | Action | Stat    | Cry  | Count | Cmd Name             |
|--|--------|------|--------|---------|------|-------|----------------------|
| 0  | SWB-40 | <00> | 80     | Allowed | 0000 | Off   | 1 Reset              |
| 1  | SWB-40 | <0C> | 80     | Allowed | 0000 | Off   | 1 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) |        |      |        |         |      |       |                      |
| 0  | SWB-40 | <00> | 81     | Allowed | 0000 | Off   | 1 Reset              |
| 1  | SWB-40 | <0C> | 81     | Allowed | 0000 | Off   | 1 SeekDrive          |
| 2  | SWB-40 | <0D> | 81     | Allowed | 0000 | Off   | 1 AltReset           |
| 3  | SWB-40 | <11> | 81     | Allowed | 0000 | Off   | 1 Recalibrate        |
| 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 | <0C> | 82     | Allowed | 0000 | Off   | 1 SeekDrive          |
| 2  | SWB-40 | <0D> | 82     | Allowed | 0000 | Off   | 1 AltReset           |
| 3  | SWB-40 | <11> | 82     | Allowed | 0000 | Off   | 1 Recalibrate        |
| 4  | SWB-40 | <47> | 82     | Allowed | 0000 | Off   | 1 ExtendedSeek       |
| 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  | SWB-40 | <0C> | 83     | Allowed | 0000 | Off   | 1 SeekDrive          |
| 2  | SWB-40 | <0D> | 83     | Allowed | 0000 | Off   | 1 AltReset           |
| 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  | SWB-40 | <04> | 80     | Allowed | 0000 | Off   | 1 VerifySectors      |
| 2  | SWB-40 | <08> | 80     | Allowed | 0000 | Off   | 1 ReadDriveParms     |
| 3  | SWB-40 | <10> | 80     | Allowed | 0000 | Off   | 1 TestDriveReady     |
| 4  | SWB-40 | <15> | 80     | Allowed | 0000 | Off   | 1 ReadDriveType      |
| 5  | SWB-40 | <41> | 80     | Allowed | 0000 | Off   | 1 CheckForExtensions |

Case SWB-40 PDBlock Version 2.00

```

6 SWB-40 <44> 80 Allowed 0000 Off 1 VerifySectors
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 SWB-40 <04> 81 Allowed 0000 Off 1 VerifySectors
2 SWB-40 <08> 81 Allowed 0000 Off 1 ReadDriveParms
3 SWB-40 <10> 81 Allowed 0000 Off 1 TestDriveReady
4 SWB-40 <15> 81 Allowed 0000 Off 1 ReadDriveType
5 SWB-40 <41> 81 Allowed 0000 Off 1 CheckForExtensions
6 SWB-40 <44> 81 Allowed 0000 Off 1 VerifySectors
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 1 GetLastStatus
1 SWB-40 <04> 82 Allowed 0000 Off 1 VerifySectors
2 SWB-40 <08> 82 Allowed 0000 Off 1 ReadDriveParms
3 SWB-40 <10> 82 Allowed 0000 Off 1 TestDriveReady
4 SWB-40 <15> 82 Allowed 0000 Off 1 ReadDriveType
5 SWB-40 <41> 82 Allowed 0000 Off 1 CheckForExtensions
6 SWB-40 <44> 82 Allowed 0000 Off 1 VerifySectors
7 SWB-40 <48> 82 Allowed 0000 Off 1 GetDriveParms
Results for SWB-40 category i on drive 82 No commands blocked (0 of 8)
0 SWB-40 <01> 83 Allowed 0000 Off 1 GetLastStatus
1 SWB-40 <04> 83 Allowed 0000 Off 1 VerifySectors
2 SWB-40 <08> 83 Allowed 0000 Off 1 ReadDriveParms
3 SWB-40 <10> 83 Allowed 0000 Off 1 TestDriveReady
4 SWB-40 <15> 83 Allowed 0000 Off 1 ReadDriveType
5 SWB-40 <41> 83 Allowed 0000 Off 1 CheckForExtensions
6 SWB-40 <44> 83 Allowed 0000 Off 1 VerifySectors
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)
0 SWB-40 <02> 81 Allowed 0000 Off 1 ReadSectors
1 SWB-40 <0A> 81 Allowed 0000 Off 1 ReadLong
2 SWB-40 <42> 81 Allowed 0000 Off 1 ExtRead
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 SWB-40 <0A> 82 Allowed 0000 Off 1 ReadLong
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
2 SWB-40 <42> 83 Allowed 0000 Off 1 ExtRead
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 Allowed 0000 Off 1 WriteSectors
1 SWB-40 <0B> 80 Allowed 0000 Off 1 WriteLong
2 SWB-40 <43> 80 Allowed 0000 Off 1 ExtWrite
Results for SWB-40 category w on drive 80 No commands blocked (0 of 3)
0 SWB-40 <03> 81 Allowed 0000 Off 1 WriteSectors
1 SWB-40 <0B> 81 Allowed 0000 Off 1 WriteLong
2 SWB-40 <43> 81 Allowed 0000 Off 1 ExtWrite
Results for SWB-40 category w on drive 81 No commands blocked (0 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, 0 blocked, 12 not blocked

0 SWB-40 <05> 80 Allowed 0000 Off 1 FormatTrack

```

Case SWB-40 PDBlock Version 2.00

```
1 SWB-40 <06> 80 Allowed 0000 Off      1 FormatBadSectors
2 SWB-40 <07> 80 Allowed 0000 Off      1 FormatCyl
3 SWB-40 <09> 80 Allowed 0000 Off      1 InitDriveParms
4 SWB-40 <0E> 80 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-40 <0F> 80 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-40 <12> 80 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-40 <13> 80 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-40 <14> 80 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-40 category x on drive 80 No commands blocked (0 of 9)
0 SWB-40 <05> 81 Allowed 0000 Off      1 FormatTrack
1 SWB-40 <06> 81 Allowed 0000 Off      1 FormatBadSectors
2 SWB-40 <07> 81 Allowed 0000 Off      1 FormatCyl
3 SWB-40 <09> 81 Allowed 0000 Off      1 InitDriveParms
4 SWB-40 <0E> 81 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-40 <0F> 81 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-40 <12> 81 Allowed 0000 Off      1 DiagnosticRAM
7 SWB-40 <13> 81 Allowed 0000 Off      1 DiagnosticDrive
8 SWB-40 <14> 81 Allowed 0000 Off      1 DiagnosticCTL
Results for SWB-40 category x on drive 81 No commands blocked (0 of 9)
0 SWB-40 <05> 82 Allowed 0000 Off      1 FormatTrack
1 SWB-40 <06> 82 Allowed 0000 Off      1 FormatBadSectors
2 SWB-40 <07> 82 Allowed 0000 Off      1 FormatCyl
3 SWB-40 <09> 82 Allowed 0000 Off      1 InitDriveParms
4 SWB-40 <0E> 82 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-40 <0F> 82 Allowed 0000 Off      1 DiagnosticESDI
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 SWB-40 <06> 83 Allowed 0000 Off      1 FormatBadSectors
2 SWB-40 <07> 83 Allowed 0000 Off      1 FormatCyl
3 SWB-40 <09> 83 Allowed 0000 Off      1 InitDriveParms
4 SWB-40 <0E> 83 Allowed 0000 Off      1 DiagnosticESDI
5 SWB-40 <0F> 83 Allowed 0000 Off      1 DiagnosticESDI
6 SWB-40 <12> 83 Allowed 0000 Off      1 DiagnosticRAM
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, 0 blocked, 36 not blocked

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 (1
of 228)
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 (1
of 228)
0 SWB-40 <16> 82 Allowed 0000 Off      1 Undefined
...
```

| Case SWB-40 PDBlock Version 2.00 |  |                           |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
|----------------------------------|--|---------------------------|------------------|----------------|-------|---------------------|---------------------|-------|---------------------|----------------------|-------|-----------------------|-----------------------|-------|-----------------------|-----------------------|-------|-------------------------|-------------------------|-------|-------------------------|-------------------------|-------|---------------------------|---------------------------|-------|-------------|-------------------|-------|--------------------|--------------------|--|--|
|                                  | <pre> misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-40 &lt;FE&gt; 82 Allowed 0000 Off      1 Undefined 227 SWB-40 &lt;FF&gt; 82 Allowed 0000 Off      1 Undefined Results for SWB-40 category m on drive 82 Not all commands blocked (1 of 228)   0 SWB-40 &lt;16&gt; 83 Allowed 0000 Off      1 Undefined ...  misc commands 17-FD results omitted  see log files for full results  ...  226 SWB-40 &lt;FE&gt; 83 Allowed 0000 Off      1 Undefined 227 SWB-40 &lt;FF&gt; 83 Allowed 0000 Off      1 Undefined Results for SWB-40 category m on drive 83 Not all commands blocked (1 of 228) Summary: 912 sent, 4 blocked, 908 not blocked  ***** Signal Log ***** SIGNAL: n </pre>   |                           |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| Results:                         | <table border="1"> <thead> <tr> <th>Assertion</th> <th>Expected Results</th> <th>Actual Results</th> </tr> </thead> <tbody> <tr> <td>AM-07</td> <td>Tool active message</td> <td>Tool active message</td> </tr> <tr> <td>AM-08</td> <td>4 drives identified</td> <td>No drives identified</td> </tr> <tr> <td>AM-09</td> <td>Drive 80 is protected</td> <td>Drive 80 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 81 is protected</td> <td>Drive 81 is protected</td> </tr> <tr> <td>AM-09</td> <td>Drive 82 is unprotected</td> <td>Drive 82 is unprotected</td> </tr> <tr> <td>AM-09</td> <td>Drive 83 is unprotected</td> <td>Drive 83 is unprotected</td> </tr> <tr> <td>AM-10</td> <td>4 Commands return success</td> <td>0 Commands return success</td> </tr> <tr> <td>AO-09</td> <td>SWB removed</td> <td>Some cmds blocked</td> </tr> <tr> <td>AO-10</td> <td>No signal observed</td> <td>No signal observed</td> </tr> </tbody> </table> | Assertion                 | Expected Results | Actual Results | AM-07 | Tool active message | Tool active message | AM-08 | 4 drives identified | No drives identified | AM-09 | Drive 80 is protected | Drive 80 is protected | AM-09 | Drive 81 is protected | Drive 81 is protected | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected | AM-10 | 4 Commands return success | 0 Commands return success | AO-09 | SWB removed | Some cmds blocked | AO-10 | No signal observed | No signal observed |  |  |
| Assertion                        | Expected Results   | Actual Results            |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-07                            | Tool active message  | Tool active message       |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-08                            | 4 drives identified  | No drives identified      |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-09                            | Drive 80 is protected  | Drive 80 is protected     |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-09                            | Drive 81 is protected  | Drive 81 is protected     |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-09                            | Drive 82 is unprotected  | Drive 82 is unprotected   |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-09                            | Drive 83 is unprotected  | Drive 83 is unprotected   |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AM-10                            | 4 Commands return success  | 0 Commands return success |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AO-09                            | SWB removed  | Some cmds blocked         |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| AO-10                            | No signal observed   | No signal observed        |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |
| Analysis:                        | SWB-40 Expected results not achieved for assertions: AM-08 AM-10 AO-09   |                           |                  |                |       |                     |                     |       |                     |                      |       |                       |                       |       |                       |                       |       |                         |                         |       |                         |                         |       |                           |                           |       |             |                   |       |                    |                    |  |  |

## About the National Institute of Justice

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

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

### Strategic Goals

NIJ has seven strategic goals grouped into three categories:

#### Creating relevant knowledge and tools

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

#### Dissemination

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

#### Agency management

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

### Program Areas

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

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

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

<http://www.ojp.usdoj.gov/nij>

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