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Test Results for Software Write Block Tools:
PDBLOCK Version 2.10

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## NIJ

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**NIST**
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# Contents

## 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 (http://www.cftt.nist.gov) for both comment and review by the computer forensics community.

This document reports the results from testing PDBLOCK Version 2.10 against *Software Write Block Tool Specification & Test Plan Version 3.0*, available on CFTT's Web site (http://www.cftt.nist.gov/documents/SWB-STP-V3_1a.pdf). 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 2.10 © 1999–2003
DIGITAL INTELLIGENCE, INC.

Executable Identification: Name: pdblock.exe
Size: 16,742 bytes
SHA1[1]: 12c055ef9565781e822a2462a61b5d5b19660711

Operating System: MS–DOS® (Windows® 98 DOS)[2] 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. For some test cases run with five drives, the fifth drive was protected even though it was not designated as protected.

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[1] 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).

[2] MS–DOS and Windows are registered trademarks of Microsoft Corporation.

## 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 miscellaneous category 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.

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 protection status of the drive or the */fail* command line option.

Test cases: SWB–05, SWB–06, SWB–17, and SWB–18.

## 3.0  Observation

The documentation available for PDBLOCK Version 2.10 seems to imply that it only supports four hard disks. Because the number of drives supported is not perfectly clear, some tests were conducted with five hard drives. Behavior of the software on the fifth disk for computers with five drives was not always as expected.

If the user specified drive 4 as protected, PDBLOCK 2.10 issued the message **Error: Invalid Drive List Specified:** and exited, prematurely ending the test. This relates to the SWB–RO–03 requirement from *Software Write Block Tool Specification & Test Plan Version 3.0*: The user shall be able to specify each of the covered drives as either protected or unprotected.

There are no test cases included in this test report that demonstrate this behavior.

If the fifth drive was not included in the subset of drives specified for protection, PDBLOCK Version 2.10 still seemed to protect the fifth drive. This relates to 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," from *Software Write Block Tool Specification & Test Plan Version 3.0*.

Test cases: SWB–15, SWB–16, SWB–17, and SWB–18.

# 4.0  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 2.10.

# 5.0  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*.

## 5.1  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 2.10 blocked every command from the write category sent 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. PDBLOCK Version 2.10 blocked every command from the configuration category sent to a protected drive.

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

Table 5–1 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 5–1 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 2.10 never blocked any command from the read category sent 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 2.10 never blocked any commands from the control category sent to a protected drive.

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

Each command in the information category was sent to all protected drives. PDBLOCK Version 2.10 never blocked any command from the information category sent 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 2.10 always issued the message **PDBlock Version 2.10** 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.**

When executed with the */list* command line option, PDBLOCK Version 2.10 always issued the message **Physical Drives on this System:** followed by a table of drive attributes to identify the 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.**

PDBLOCK Version 2.10 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 2.10 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 (*fail*). See Table 5–1, a log file extract from test case SWB–06, and note that line 209 (result for the 0xED command) returns 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 2.10 was configured to return *fail* on blocked commands, all blocked commands returned *fail*.

## *5.2 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 2.10 blocked every command from the write category sent 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 2.10 blocked every command from the configuration category sent to a protected drive.

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 2.10 only blocked three of the commands from the miscellaneous category sent 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 2.10 never blocked any command from the read category sent 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 2.10 never blocked any command from the control category sent 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 2.10 never blocked any command from the information category sent 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 of computers with fewer than five drives, PDBLOCK Version 2.10 never blocked any command sent to an unprotected drive, except for command code 0xED. When a computer had five drives and a subset of all covered disks was specified for protection, PDBLOCK 2.10 treated the fifth drive as protected even though it was not specified for protection. Command code 0xED was always blocked whether the drive was protected or not.

Test cases: SWB–15, SWB–16, SWB–17, and SWB–18.

**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 2.10 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 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 2.10 never blocked any commands sent. The exception is command code 0xED. This command code is always blocked.

Test cases: SWB–39 and SWB–40.

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

PDBLOCK Version 2.10 always indicated a blocked command with an audible signal.

# 6.0   Testing Environment

The tests were run in the NIST CFTT lab. This section describes the hardware (test computers and hard drives) available for testing. Not all components were used in testing. The following host computers were used for execution of test cases: Joe, Max, McMillan, and Freddy. Eight hard drives (eight different models and three different brands) were used for the tests (Table 6–3).

## *6.1  Test Computers*

Three host computers—Joe, Max, and Freddy—have the following hardware components in common:

**Table 6–1 Extended BIOS Host Computer Hardware Components**

| |
|---|
| Intel D865GBF Motherboard<br>BIOS: Intel/AMI BF86510A.86A.0053.P13<br>Intel Dual Pentium 4 3.4hz<br>3072M Memory<br>Adaptec 29160 SCSI Adapter card Ultra 160<br>Sony DVD RW DRU–530A<br>IOGEAR GIC1394 3–Port Firewire PCI card<br>Apacer USB 2.0 Embedded Card Reader<br>Two slots for removable IDE hard disk drives<br>Two slots for removable SCSI hard disk drives<br>Two slots for removable SATA hard disk drives |

The computer McMillan has the following hardware components:

**Table 6–2 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 |

## 6.2  Hard Disk Drives

The hard disk drives that were used are listed in Table 6–3. These hard drives were mounted in removable storage modules. Any combination of up to two (three for McMillan) IDE hard drives and two SCSI hard drives were installed in Joe, Max, McMillan, or Freddy 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 6–3 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 |

| Label | Model | Interface | Usable Sectors | GB |
|---|---|---|---|---|
| E3 | QUANTUM_ATLAS10K2-TY092J | SCSI | 17938985 | 9.18 |
| E4 | QUANTUM_ATLAS10K2-TY092J | SCSI | 17938985 | 9.18 |
| F5 | IBM-DTLA-307020 | IDE | 40188960 | 20.57 |
| 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 <u>Table 6–4</u>. 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 6–4 Drive Partition Setup**

| Drive Label | Partition Table |
|---|---|
| 1F | N    Start LBA Length    boot Partition type<br>1 P 000000063 001236942 Boot 0B Fat32<br>2 X 001429785 033865020     0F extended<br>3 S 000000063 000208782     83 Linux<br>4 x 000208845 000144585     05 extended<br>5 S 000000063 000144522     0B Fat32<br>6 x 000771120 000192780     05 extended<br>7 S 000000063 000192717     16 other<br>8 S 000000000 000000000     00 empty entry<br>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 |
| E3 | N    Start LBA Length    boot Partition type<br>1 P 000000063 071681967     0C Fat32X<br>2 P 000000000 000000000     00 empty entry<br>3 P 000000000 000000000     00 empty entry<br>4 P 000000000 000000000     00 empty entry |
| E4 | N    Start LBA Length    boot Partition type<br>1 P 000000063 006152832 Boot 0B Fat32<br>2 X 008193150 009735390     0F extended<br>3 S 000000000 000000000     00 empty entry<br>4 x 002056320 001237005     05 extended<br>5 S 000000063 001236942     07 NTFS<br>6 x 005349645 001638630     05 extended<br>7 S 000000063 001638567     17 other<br>8 x 008498385 001237005     05 extended<br>9 S 000000063 001236942     1B other |
| F5 | N    Start LBA Length    boot Partition type<br>1 P 000000063 001236942 Boot 06 Fat16<br>2 X 002249100 007181055     05 extended |

| Drive Label | Partition Table |
|---|---|
| | 3 S 000000063 000208782      83 Linux |
| | 4 x 000208845 000144585      05 extended |
| | 5 S 000000063 000144522      06 Fat16 |
| | 6 x 004450005 000192780      05 extended |
| | 7 S 000000063 000192717      16 other |
| | 8 S 000000000 000000000      00 empty entry |
| | 9 P 009430155 006152895      83 Linux |
| F6 | N  Start LBA Length   boot Partition type |
| | 1 P 000000063 006152832 Boot 0B Fat32 |
| | 2 X 008193150 031985415      0F extended |
| | 3 S 000000000 000000000      00 empty entry |
| | 4 x 002056320 001237005      05 extended |
| | 5 S 000000063 001236942      07 NTFS |
| | 6 x 005349645 001638630      05 extended |
| | 7 S 000000063 001638567      17 other |
| | 8 x 030748410 001237005      05 extended |
| | 9 S 000000063 001236942      1B other |

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

**Table 6–5 Drive SHA1 Values, Before and After Testing**

| Drive Label | Time | SHA1 Hash Value |
|---|---|---|
| 1F | Before | 7DB8B538BC38907FC22B1CA79996D97F77421418 |
| | After | 7DB8B538BC38907FC22B1CA79996D97F77421418 |
| 2B | Before | 2A7810E851B7392C3D4836A5DFFB5E73E8295C6F |
| | After | 2A7810E851B7392C3D4836A5DFFB5E73E8295C6F |
| 64 | Before | 8F52C49579C70407FE6D0EDCBE3FD7C42972823A |
| | After | 8F52C49579C70407FE6D0EDCBE3FD7C42972823A |
| 6F | Before | 7C2F5F4FB0D04E5F1B51D0888753A1B125A503EA |
| | After | 7C2F5F4FB0D04E5F1B51D0888753A1B125A503EA |
| 8A | Before | 891444D852E0C48C4713952B3BDAD89E03C205FD |
| | After | 891444D852E0C48C4713952B3BDAD89E03C205FD |
| 90 | Before | 08B4905B4D012401656248C39C904F6072476293 |
| | After | 08B4905B4D012401656248C39C904F6072476293 |
| E3 | Before | 0F9DACDA6C63D197C048782003D324108CEC7AB0 |
| | After | 0F9DACDA6C63D197C048782003D324108CEC7AB0 |
| E4 | Before | 25BF8AF6B2D3E0BD1909C96E368DB27F51C49CBF |
| | After | 25BF8AF6B2D3E0BD1909C96E368DB27F51C49CBF |
| F5 | Before | 83A0002816BBF089F8BE33C41C92C3B5A0F42A54 |
| | After | 83A0002816BBF089F8BE33C41C92C3B5A0F42A54 |
| F6 | Before | 8034683D5D55BA51409AC7B5CB0845CA2CF6B235 |
| | After | 8034683D5D55BA51409AC7B5CB0845CA2CF6B235 |

## 6.3 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 (http://www.cftt.nist.gov). 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 6–6 are required for testing.

**Table 6–6 Software Required for Testing**

| Program | Description |
|---------|-------------|
| SWB Tool | The software write block tool to be tested. |
| TALLY13 | The interrupt 0x13 monitor program. When active, it blocks all interrupt 0x13 command functions and counts the number of times each function is requested for each drive. It also 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. |

## 6.4 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 2.10: **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.

# 7.0  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.

## 7.1  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.**

The Hard Drives Used box lists the hard drives. If the Install PDBLOCK Log section of the Log File Highlights box has an entry for each of the drives and no other entries, the test case conforms to the assertion.

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

If drive **N** is listed on the PDBLOCK command line and the Install PDBLOCK log reports drive **N** as protected, the test case conforms to the 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 2.10 was configured to return *success* on blocked commands by default unless the */fail* flag was 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 2.10 was configured to return _fail_ on blocked commands if the _/fail_ flag was 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 not identified. 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 sent and 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.

## 7.2 Test Results Summary Key

A summary of the actual test results is presented in this report (see 8.0 Test Results Summaries). The following table presents a description of each section of the test report summary.

**Table 7–1 Description of Test Report Summary**

| Heading | Description |
|---|---|
| First Line | Test case ID and the name and version of the software tested. |
| Case Summary | Test case summary from *Software Write Block Tool Specification & Test Plan Version 3.0.* |
| Assertions Tested | Assertions tested by the test case from *Software Write Block Tool Specification & Test Plan Version 3.0.* |
| 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 | Documentation of each command executed during the test.<br><br>The protected drives are identified on the PDBLOCK command line. PDBLOCK Version 2.10 identifies the drives starting at 0. |
| Log File Highlights | Selected entries from the test case log files. Four log files may appear. The log file created for TALLY13 is labeled *Monitor Execution*. The log files created for PDBLOCK Version 2.10 are labeled *Install PDBLOCK Log*. The log file created by TEST–HDL is labeled *Test Harness Log*. The log file created by SIG–LOG is labeled *Signal Log*.<br><br>For test cases SWB–39 and SWB–40, there are two separate logs for PDBLOCK Version 2.10 and also for TEST–HDL because these cases require execution of PDBLOCK twice.<br><br>The monitor execution log file records the program version and the date that the TALLY13 program was executed.<br><br>The PDBLOCK log files are obtained by output redirection of the execution of PDBLOCK Version 2.10. The log files contain the version of PDBLOCK used, the number of drives identified, and the protection status of each drive.<br><br>The test harness log is the record of commands sent to PDBLOCK Version 2.10 and the action taken by PDBLOCK to either block or allow each command sent. The format of the file is as follows: |

| Heading | Description |
|---|---|
| | 1. Command line. The command line used to execute TEST–HDL. This line begins with the string CMD. |
| | 2. Case number. |
| | 3. Command set. The category of interrupt 0x13 functions tested by this case. |
| | 4. Date. |
| | 5. Version. Version information about TEST–HDL and components. The creation date, creation time, and version of each source code component are listed. The compile time and date for the executable program are listed. |
| | 6. Operator. The operator running the test. |
| | 7. Host. The host computer running the test. |
| | 8. Drives. The number of drives and the external drive label for each drive. |
| | Items 9 and 10 are repeated for each installed drive. |
| | 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 2.10 (either *Blocked* or *Allowed*), return status (*0000* means success, *0300* or *0100* means fail), carry flag value (labeled Cry with values of either *on* indicating failure status or *off* indicating success status), count of the number of times the command was allowed by PDBLOCK Version 2.10, and the command name (or undefined for commands in the miscellaneous category). |
| | 10. Summary of commands for the drive. The message indicates the number of commands blocked out of the number of commands sent. |
| | 11. The last item is a summary of all the commands sent to all drives: the number of commands sent, the number blocked, and the number allowed (not blocked). |
| | 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 *y* indicates that the operator observed a signal. A value of *n* indicates that no signal was observed. |
| Results | Expected and actual results for each assertion tested. |
| Analysis | Whether or not the expected results were achieved. |

# 8.0  Test Results Summaries

| Case SWB-01 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-01 Install all drives, configure return code to failure, 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-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-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Mon Aug 16 14:55:48 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 0123 /fail<br>A:\test-hdl SWB-01 Max PEB w 6F F5 E3 E4<br>A:\sig-log SWB-01 Max PEB<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 (08/16/04 at 14:55:26) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \| 120103200     58644<br>      \|  CHS \|  16434495      8024<br>   1 \|  LBA \|  40188960     19623<br>      \|  CHS \|  16434495      8024<br>   2 \|  LBA \|  17938985      8759<br>      \|  CHS \|  16434495      8024<br>   3 \|  LBA \|  17938985      8759<br>      \|  CHS \|  16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-01 Max PEB w 6F F5 E3 E4<br>Case: SWB-01<br>Command set: Write<br>Date: Mon Aug 16 14:55:48 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: Max<br>Number of drives 4, Drives: 6F F5 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name |

| Case SWB-01 PDBlock Version 2.10 | | | |
|---|---|---|---|
| | 0 SWB-01 <03> 80 Blocked 0300 On    0  WriteSectors<br>1 SWB-01 <0B> 80 Blocked 0300 On    0  WriteLong<br>2 SWB-01 <43> 80 Blocked 0300 On    0  ExtWrite<br>Results for SWB-01 category w on drive 80 All commands blocked (3 of 3)<br>0 SWB-01 <03> 81 Blocked 0300 On    0  WriteSectors<br>1 SWB-01 <0B> 81 Blocked 0300 On    0  WriteLong<br>2 SWB-01 <43> 81 Blocked 0300 On    0  ExtWrite<br>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>Summary: 12 sent, 12 blocked, 0 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y | | |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AM-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AM-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AM-01 | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 12 Commands return fail | 12 Commands return fail |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-01 Expected results achieved | | |


| Case SWB-02 PDBlock Version 2.10 | |
|---|---|
| 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: | PEB |
| Test Date: | Fri Aug 06 15:28:44 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, 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>A:\tally13<br>A:\pdblock 01<br>A:\test-hdl SWB-02 Max PEB w 64 2B<br>A:\sig-log SWB-02 Max PEB<br>Shutdown Test PC |
| Log File | ***** Monitor Execution ***** |

**Case SWB-02 PDBlock Version 2.10**

| Highlights: | Monitor BIOS interrupt 13h (disk service) |
|---|---|
| | tally13  compiled on 07/29/03 at 07:33:17 |

```
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 (08/06/04 at 15:28:15) Going . . .  TSR
***** Install PDB Log *****
PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er
Drives Protected: 0,1
Return Code:       SUCCESS
Bell:              ON
Message:           ON
Drive | Mode |     Length  Size (Mb)
    0 |  LBA |  12594960       6149
      |  CHS |  12578895       6142
    1 |  LBA |  17783249       8683
      |  CHS |  16434495       8024
***** Test Harness Log *****
CMD: A:\TEST-HDL.EXE SWB-02 Max PEB w 64 2B
Case: SWB-02
Command set: Write
Date: Fri Aug 06 15:28:44 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: Max
Number of drives 2, Drives: 64 2B
     Case  Cmd Drv Action  Stat Cry Count Cmd Name
  0 SWB-02 <03> 80 Blocked 0000 Off     0  WriteSectors
  1 SWB-02 <0B> 80 Blocked 0000 Off     0  WriteLong
  2 SWB-02 <43> 80 Blocked 0000 Off     0  ExtWrite
Results for SWB-02 category w on drive 80 All commands blocked (3 of 3)
  0 SWB-02 <03> 81 Blocked 0000 Off     0  WriteSectors
  1 SWB-02 <0B> 81 Blocked 0000 Off     0  WriteLong
  2 SWB-02 <43> 81 Blocked 0000 Off     0  ExtWrite
Results for SWB-02 category w on drive 81 All commands blocked (3 of 3)
Summary: 6 sent, 6 blocked, 0 not blocked



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

| Results: | | | |
|---|---|---|---|
| | **Assertion** | **Expected Results** | **Actual Results** |
| | AM-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AM-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 2 drives identified | 2 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-10 | 6 Commands return success | 6 Commands return success |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-02 Expected results achieved | | |

---

**Case SWB-03 PDBlock Version 2.10**

| Case summary: | SWB-03 Install one drive, configure return code to failure, protect all drives, execute configuration commands. |
|---|---|
| Assertions Tested: | SWB-AM-02. If a drive is protected and a command from the configuration category is issued for the protected drive then the tool shall block the command. |
| | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. |
| | SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. |

| Case SWB-03 PDBlock Version 2.10 | |
|---|---|
| | 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: | Tue Aug 10 14:33:35 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| Commands executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 0 /fail<br>A:\test-hdl SWB-03 McMillan PEB x 6F<br>A:\sig-log SWB-03 McMillan PEB<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 (08/10/04 at 14:33:06) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|      Length   Size (Mb)<br>    0 \| LBA \|  120103200      58644<br>      \| CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-03 McMillan PEB x 6F<br>Case: SWB-03<br>Command set: Configure<br>Date: Tue Aug 10 14:33:35 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: McMillan<br>Number of drives 1, Drives: 6F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br> 0 SWB-03 <05> 80 Blocked 0300 On     0  FormatTrack<br> 1 SWB-03 <06> 80 Blocked 0300 On     0  FormatBadSectors<br> 2 SWB-03 <07> 80 Blocked 0300 On     0  FormatCyl<br> 3 SWB-03 <09> 80 Blocked 0300 On     0  InitDriveParms<br> 4 SWB-03 <0E> 80 Blocked 0300 On     0  DiagnosticESDI<br> 5 SWB-03 <0F> 80 Blocked 0300 On     0  DiagnosticESDI<br> 6 SWB-03 <12> 80 Blocked 0300 On     0  DiagnosticRAM<br> 7 SWB-03 <13> 80 Blocked 0300 On     0  DiagnosticDrive<br> 8 SWB-03 <14> 80 Blocked 0300 On     0  DiagnosticCTL<br>Results for SWB-03 category x on drive 80 All commands blocked (9 of 9)<br>Summary: 9 sent, 9 blocked, 0 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |
| Results: | |

| Assertion | Expected Results | Actual Results |
|---|---|---|
| AM-02 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| AM-07 | Tool active message | Tool active message |
| AM-08 | 1 drives identified | 1 drives identified |
| AM-09 | Drive 80 is protected | Drive 80 is protected |
| AM-11 | 9 Commands return fail | 9 Commands return fail |
| AO-10 | Signal observed | Signal observed |

| Analysis: | SWB-03 Expected results achieved |
|---|---|

| Case SWB-04 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-04 Install all drives, configure return code to success, protect all drives, execute configuration commands. |

| Case SWB-04 PDBlock Version 2.10 | |
|---|---|
| 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 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: | Tue Aug 17 12:14:28 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 0123<br>A:\test-hdl SWB-04 Max PEB x F5 F6 E3 E4<br>A:\sig-log SWB-04 Max PEB<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 (08/17/04 at 12:14:07) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \|   40188960     19623<br>     \|  CHS \|   16434495      8024<br>   1 \|  LBA \|   40188960     19623<br>     \|  CHS \|   16434495      8024<br>   2 \|  LBA \|   17938985      8759<br>     \|  CHS \|   16434495      8024<br>   3 \|  LBA \|   17938985      8759<br>     \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-04 Max PEB x F5 F6 E3 E4<br>Case: SWB-04<br>Command set: Configure<br>Date: Tue Aug 17 12:14:28 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: Max<br>Number of drives 4, Drives: F5 F6 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-04 <05> 80 Blocked 0000 Off     0  FormatTrack<br>  1 SWB-04 <06> 80 Blocked 0000 Off     0  FormatBadSectors<br>  2 SWB-04 <07> 80 Blocked 0000 Off     0  FormatCyl<br>  3 SWB-04 <09> 80 Blocked 0000 Off     0  InitDriveParms<br>  4 SWB-04 <0E> 80 Blocked 0000 Off     0  DiagnosticESDI<br>  5 SWB-04 <0F> 80 Blocked 0000 Off     0  DiagnosticESDI<br>  6 SWB-04 <12> 80 Blocked 0000 Off     0  DiagnosticRAM |

| Case SWB-04 PDBlock Version 2.10 | |
|---|---|
| | 7 SWB-04 <13> 80 Blocked 0000 Off    0  DiagnosticDrive |
| | 8 SWB-04 <14> 80 Blocked 0000 Off    0  DiagnosticCTL |
| | Results for SWB-04 category x on drive 80 All commands blocked (9 of 9) |
| | 0 SWB-04 <05> 81 Blocked 0000 Off    0  FormatTrack |
| | 1 SWB-04 <06> 81 Blocked 0000 Off    0  FormatBadSectors |
| | 2 SWB-04 <07> 81 Blocked 0000 Off    0  FormatCyl |
| | 3 SWB-04 <09> 81 Blocked 0000 Off    0  InitDriveParms |
| | 4 SWB-04 <0E> 81 Blocked 0000 Off    0  DiagnosticESDI |
| | 5 SWB-04 <0F> 81 Blocked 0000 Off    0  DiagnosticESDI |
| | 6 SWB-04 <12> 81 Blocked 0000 Off    0  DiagnosticRAM |
| | 7 SWB-04 <13> 81 Blocked 0000 Off    0  DiagnosticDrive |
| | 8 SWB-04 <14> 81 Blocked 0000 Off    0  DiagnosticCTL |
| | Results for SWB-04 category x on drive 81 All commands blocked (9 of 9) |
| | 0 SWB-04 <05> 82 Blocked 0000 Off    0  FormatTrack |
| | 1 SWB-04 <06> 82 Blocked 0000 Off    0  FormatBadSectors |
| | 2 SWB-04 <07> 82 Blocked 0000 Off    0  FormatCyl |
| | 3 SWB-04 <09> 82 Blocked 0000 Off    0  InitDriveParms |
| | 4 SWB-04 <0E> 82 Blocked 0000 Off    0  DiagnosticESDI |
| | 5 SWB-04 <0F> 82 Blocked 0000 Off    0  DiagnosticESDI |
| | 6 SWB-04 <12> 82 Blocked 0000 Off    0  DiagnosticRAM |
| | 7 SWB-04 <13> 82 Blocked 0000 Off    0  DiagnosticDrive |
| | 8 SWB-04 <14> 82 Blocked 0000 Off    0  DiagnosticCTL |
| | Results for SWB-04 category x on drive 82 All commands blocked (9 of 9) |
| | 0 SWB-04 <05> 83 Blocked 0000 Off    0  FormatTrack |
| | 1 SWB-04 <06> 83 Blocked 0000 Off    0  FormatBadSectors |
| | 2 SWB-04 <07> 83 Blocked 0000 Off    0  FormatCyl |
| | 3 SWB-04 <09> 83 Blocked 0000 Off    0  InitDriveParms |
| | 4 SWB-04 <0E> 83 Blocked 0000 Off    0  DiagnosticESDI |
| | 5 SWB-04 <0F> 83 Blocked 0000 Off    0  DiagnosticESDI |
| | 6 SWB-04 <12> 83 Blocked 0000 Off    0  DiagnosticRAM |
| | 7 SWB-04 <13> 83 Blocked 0000 Off    0  DiagnosticDrive |
| | 8 SWB-04 <14> 83 Blocked 0000 Off    0  DiagnosticCTL |
| | Results for SWB-04 category x on drive 83 All commands blocked (9 of 9) |
| | Summary: 36 sent, 36 blocked, 0 not blocked |
| | |
| | |
| | ***** Signal Log ***** |
| | SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-02 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AM-02 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AM-02 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AM-02 | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-10 | 36 Commands return success | 36 Commands return success |
| | AO-10 | Signal observed | Signal observed |

| Analysis: | SWB-04 Expected results achieved |
|---|---|


| Case SWB-05 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-05 Install two drives, configure return code to failure, protect all drives, execute miscellaneous commands. |
| Assertions Tested: | SWB-AM-03. If a drive is protected and a command from the miscellaneous category is issued for the protected drive then the tool shall block the command. |
| | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. |
| | SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate |

| Case SWB-05 PDBlock Version 2.10 | |
|---|---|
| | unsuccessful command execution.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue<br>either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 15:42:00 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives<br>Used: | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, label 2B is a Quantum QM39100TD-SCA Drive with 17783249<br>sectors |
| Commands<br>executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 01 /fail<br>A:\test-hdl SWB-05 Max PEB m 64 2B<br>A:\sig-log SWB-05 Max PEB<br>Shutdown Test PC |
| Log File<br>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 (08/06/04 at 15:41:30) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   12594960      6149<br>      \|  CHS \|   12578895      6142<br>    1 \|  LBA \|   17783249      8683<br>      \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-05 Max PEB m 64 2B<br>Case: SWB-05<br>Command set: Misc<br>Date: Fri Aug 06 15:42:00 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: Max<br>Number of drives 2, Drives: 64 2B<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-05 <16> 80 Allowed 0000 Off     1 Undefined<br>        ...<br><br>        misc commands 17-FD results omitted<br><br>        see log files for full results<br><br>        ...<br><br>226 SWB-05 <FE> 80 Allowed 0000 Off     1 Undefined<br>227 SWB-05 <FF> 80 Allowed 0000 Off     1 Undefined<br>Results for SWB-05 category m on drive 80 Not all commands blocked (3<br>of 228)<br>  0 SWB-05 <16> 81 Allowed 0000 Off     1 Undefined<br>        ...<br><br>        misc commands 17-FD results omitted<br><br>        see log files for full results<br><br>        ...<br><br>226 SWB-05 <FE> 81 Allowed 0000 Off     1 Undefined<br>227 SWB-05 <FF> 81 Allowed 0000 Off     1 Undefined |

**Case SWB-05 PDBlock Version 2.10**

|  | Results for SWB-05 category m on drive 81 Not all commands blocked (3 of 228)<br>Summary: 456 sent, 6 blocked, 450 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |
|---|---|

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
|  | AM-03 | All cmds to drive 80 blocked | Not all cmds to drive 80 blocked |
|  | AM-03 | All cmds to drive 81 blocked | Not all cmds to drive 81 blocked |
|  | AM-07 | Tool active message | Tool active message |
|  | AM-08 | 2 drives identified | 2 drives identified |
|  | AM-09 | Drive 80 is protected | Drive 80 is protected |
|  | AM-09 | Drive 81 is protected | Drive 81 is protected |
|  | AM-11 | 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 |
|---|---|


**Case SWB-06 PDBlock Version 2.10**

| 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: | Fri Aug 06 16:01:01 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| Commands executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 0<br>A:\test-hdl SWB-06 McMillan PEB m 6F<br>A:\sig-log SWB-06 McMillan PEB<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 (08/06/04 at 16:00:32) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code:     SUCCESS<br>Bell:            ON<br>Message:         ON<br>Drive \| Mode \|     Length   Size (Mb)<br>   0 \|  LBA \| 120103200       58644<br>     \|  CHS \|  16434495        8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-06 McMillan PEB m 6F<br>Case: SWB-06<br>Command set: Misc |

| Case SWB-06 PDBlock Version 2.10 | |
|---|---|
| | Date: Fri Aug 06 16:01:01 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: McMillan<br>Number of drives 1, Drives: 6F<br>    Case Cmd Drv Action Stat Cry Count Cmd Name<br>  0 SWB-06 <16> 80 Allowed 0000 Off    1 Undefined<br>       ...<br><br>      misc commands 17-FD results omitted<br><br>      see log files for full results<br><br>      ...<br><br>226 SWB-06 <FE> 80 Allowed 0000 Off   1 Undefined<br>227 SWB-06 <FF> 80 Allowed 0000 Off   1 Undefined<br>Results for SWB-06 category m on drive 80 Not all commands blocked (3 of 228)<br>Summary: 228 sent, 3 blocked, 225 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | 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 | 1 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-10 |
|---|---|


| Case SWB-07 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-07 Install all drives, configure return code to failure, protect all drives, execute read commands. |
| Assertions Tested: | SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.<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-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-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Mon Aug 16 15:03:34 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 0123 /fail<br>A:\test-hdl SWB-07 Max PEB r 6F F5 E3 E4<br>A:\sig-log SWB-07 Max PEB |

| Case SWB-07 PDBlock Version 2.10 | |
|---|---|
| | Shutdown Test PC |
| Log File Highlights: | ```<br>***** 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 (08/16/04 at 15:03:13) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive | Mode |    Length  Size (Mb)<br>    0 | LBA  | 120103200      58644<br>      | CHS  |  16434495       8024<br>    1 | LBA  |  40188960      19623<br>      | CHS  |  16434495       8024<br>    2 | LBA  |  17938985       8759<br>      | CHS  |  16434495       8024<br>    3 | LBA  |  17938985       8759<br>      | CHS  |  16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-07 Max PEB r 6F F5 E3 E4<br>Case: SWB-07<br>Command set: Read<br>Date: Mon Aug 16 15:03:34 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: Max<br>Number of drives 4, Drives: 6F F5 E3 E4<br>      Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-07 <02> 80 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-07 <0A> 80 Allowed 0000 Off     1  ReadLong<br>  2 SWB-07 <42> 80 Allowed 0000 Off     1  ExtRead<br>Results for SWB-07 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-07 <02> 81 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-07 <0A> 81 Allowed 0000 Off     1  ReadLong<br>  2 SWB-07 <42> 81 Allowed 0000 Off     1  ExtRead<br>Results for SWB-07 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-07 <02> 82 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-07 <0A> 82 Allowed 0000 Off     1  ReadLong<br>  2 SWB-07 <42> 82 Allowed 0000 Off     1  ExtRead<br>Results for SWB-07 category r on drive 82 No commands blocked (0 of 3)<br>  0 SWB-07 <02> 83 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-07 <0A> 83 Allowed 0000 Off     1  ReadLong<br>  2 SWB-07 <42> 83 Allowed 0000 Off     1  ExtRead<br>Results for SWB-07 category r on drive 83 No commands blocked (0 of 3)<br>Summary: 12 sent, 0 blocked, 12 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n<br>``` |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AM-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AM-04 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AM-04 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 0 Commands return fail | 0 Commands return fail |
| | AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-07 Expected results achieved |
|---|---|

| Case SWB-08 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-08 Install two drives, configure return code to success, protect all drives, execute read commands. |
| Assertions Tested: | SWB-AM-04. If a drive is protected and a command from the read category is issued for the protected drive then the tool shall not block the command.<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: | Fri Aug 06 15:51:51 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, 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>A:\tally13<br>A:\pdblock 01<br>A:\test-hdl SWB-08 Max PEB r 64 2B<br>A:\sig-log SWB-08 Max PEB<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 (08/06/04 at 15:51:21) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \|  12594960     6149<br>     \|  CHS \|  12578895     6142<br>   1 \|  LBA \|  17783249     8683<br>     \|  CHS \|  16434495     8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-08 Max PEB r 64 2B<br>Case: SWB-08<br>Command set: Read<br>Date: Fri Aug 06 15:51:51 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: Max<br>Number of drives 2, Drives: 64 2B<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-08 <02> 80 Allowed 0000 Off    1  ReadSectors<br>  1 SWB-08 <0A> 80 Allowed 0000 Off    1  ReadLong<br>  2 SWB-08 <42> 80 Allowed 0000 Off    1  ExtRead<br>Results for SWB-08 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-08 <02> 81 Allowed 0000 Off    1  ReadSectors<br>  1 SWB-08 <0A> 81 Allowed 0000 Off    1  ReadLong<br>  2 SWB-08 <42> 81 Allowed 0000 Off    1  ExtRead<br>Results for SWB-08 category r on drive 81 No commands blocked (0 of 3)<br>Summary: 6 sent, 0 blocked, 6 not blocked |

**Case SWB-08 PDBlock Version 2.10**

|  | ***** Signal Log *****<br>SIGNAL: n | |
|---|---|---|
| Results: | | |

| Assertion | Expected Results | Actual Results |
|---|---|---|
| AM-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| AM-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| AM-07 | Tool active message | Tool active message |
| AM-08 | 2 drives identified | 2 drives identified |
| AM-09 | Drive 80 is protected | Drive 80 is protected |
| AM-09 | Drive 81 is protected | Drive 81 is protected |
| AM-10 | 0 Commands return success | 0 Commands return success |
| AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-08 Expected results achieved |
|---|---|

**Case SWB-09 PDBlock Version 2.10**

| Case summary: | SWB-09 Install one drive, configure return code to failure, protect all drives, execute information commands. |
|---|---|
| Assertions Tested: | SWB-AM-06. If a drive is protected and a command from the information category is issued for the protected drive then the tool shall not block the command.<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-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-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 16:26:36 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| Commands executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 0 /fail<br>A:\test-hdl SWB-09 McMillan PEB i 6F<br>A:\sig-log SWB-09 McMillan PEB<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 (08/06/04 at 16:26:07) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length   Size (Mb)<br>    0 \|  LBA \|  120103200      58644<br>      \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-09 McMillan PEB i 6F<br>Case: SWB-09<br>Command set: Information<br>Date: Fri Aug 06 16:26:36 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-09 PDBlock Version 2.10 | |
|---|---|
| | Operator: PEB<br>Host: McMillan<br>Number of drives 1, Drives: 6F<br><pre>      Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-09 <01> 80 Allowed 0000 Off    1  GetLastStatus<br>  1 SWB-09 <04> 80 Allowed 0000 Off    1  VerifySectors<br>  2 SWB-09 <08> 80 Allowed 0000 Off    1  ReadDriveParms<br>  3 SWB-09 <10> 80 Allowed 0000 Off    1  TestDriveReady<br>  4 SWB-09 <15> 80 Allowed 0000 Off    1  ReadDriveType<br>  5 SWB-09 <41> 80 Allowed 0000 Off    1  CheckForExtensions<br>  6 SWB-09 <44> 80 Allowed 0000 Off    1  VerifySectors<br>  7 SWB-09 <48> 80 Allowed 0000 Off    1  GetDriveParms</pre>Results for SWB-09 category i on drive 80 No commands blocked (0 of 8)<br>Summary: 8 sent, 0 blocked, 8 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |
| Results: | <table><tr><td>**Assertion**</td><td>**Expected Results**</td><td>**Actual Results**</td></tr><tr><td>AM-06</td><td>No cmds to drive 80 blocked</td><td>No 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>1 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>0 Commands return fail</td><td>0 Commands return fail</td></tr><tr><td>AO-10</td><td>No signal observed</td><td>No signal observed</td></tr></table> |
| Analysis: | SWB-09 Expected results achieved |


| Case SWB-10 PDBlock Version 2.10 | |
|---|---|
| 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: | Mon Aug 16 15:08:06 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 0123<br>A:\test-hdl SWB-10 Max PEB i 6F F5 E3 E4<br>A:\sig-log SWB-10 Max PEB<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 (08/16/04 at 15:07:44) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      SUCCESS |

```
Case SWB-10 PDBlock Version 2.10
            Bell:            ON
            Message:         ON
            Drive | Mode |     Length   Size (Mb)
               0  |  LBA  |  120103200      58644
                  |  CHS  |   16434495       8024
               1  |  LBA  |   40188960      19623
                  |  CHS  |   16434495       8024
               2  |  LBA  |   17938985       8759
                  |  CHS  |   16434495       8024
               3  |  LBA  |   17938985       8759
                  |  CHS  |   16434495       8024
            ***** Test Harness Log *****
            CMD: A:\TEST-HDL.EXE SWB-10 Max PEB i 6F F5 E3 E4
            Case: SWB-10
            Command set: Information
            Date: Mon Aug 16 15:08:06 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: Max
            Number of drives 4, Drives: 6F F5 E3 E4
                  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)
            Summary: 32 sent, 0 blocked, 32 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 |

**Case SWB-10 PDBlock Version 2.10**

|  | AM-06 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
|---|---|---|---|
|  | AM-07 | Tool active message | Tool active message |
|  | AM-08 | 4 drives identified | 4 drives identified |
|  | AM-09 | Drive 80 is protected | Drive 80 is protected |
|  | AM-09 | Drive 81 is protected | Drive 81 is protected |
|  | AM-09 | Drive 82 is protected | Drive 82 is protected |
|  | AM-09 | Drive 83 is protected | Drive 83 is protected |
|  | AM-10 | 0 Commands return success | 0 Commands return success |
|  | AO-10 | No signal observed | No signal observed |
| Analysis: | SWB-10 Expected results achieved | | |

<br>

**Case SWB-11 PDBlock Version 2.10**

| | |
|---|---|
| Case summary: | SWB-11 Install two drives, configure return code to failure, protect all drives, execute control commands. |
| Assertions Tested: | SWB-AM-05. If a drive is protected and a command from the control category is issued for the protected drive then the tool shall not block the command.<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-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-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 16:04:53 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 64 is a WDC WD64AA with 12594960 sectors<br>Drive 81, 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>A:\tally13<br>A:\pdblock 01 /fail<br>A:\test-hdl SWB-11 Max PEB c 64 2B<br>A:\sig-log SWB-11 Max PEB<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 (08/06/04 at 16:04:23) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA  \|  12594960      6149<br>      \|  CHS  \|  12578895      6142<br>   1 \|  LBA  \|  17783249      8683<br>      \|  CHS  \|  16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-11 Max PEB c 64 2B<br>Case: SWB-11<br>Command set: Control<br>Date: Fri Aug 06 16:04:53 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 |

| Case SWB-11 PDBlock Version 2.10 | |
|---|---|
| | Host: Max<br>Number of drives 2, Drives: 64 2B<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-11 <00> 80 Allowed 0000 Off    1  Reset<br>  1 SWB-11 <0C> 80 Allowed 0000 Off    1  SeekDrive<br>  2 SWB-11 <0D> 80 Allowed 0000 Off    1  AltReset<br>  3 SWB-11 <11> 80 Allowed 0000 Off    1  Recalibrate<br>  4 SWB-11 <47> 80 Allowed 0000 Off    1  ExtendedSeek<br>Results for SWB-11 category c on drive 80 No commands blocked (0 of 5)<br>  0 SWB-11 <00> 81 Allowed 0000 Off    1  Reset<br>  1 SWB-11 <0C> 81 Allowed 0000 Off    1  SeekDrive<br>  2 SWB-11 <0D> 81 Allowed 0000 Off    1  AltReset<br>  3 SWB-11 <11> 81 Allowed 0000 Off    1  Recalibrate<br>  4 SWB-11 <47> 81 Allowed 0000 Off    1  ExtendedSeek<br>Results for SWB-11 category c on drive 81 No commands blocked (0 of 5)<br>Summary: 10 sent, 0 blocked, 10 not blocked<br><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-05 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 2 drives identified | 2 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-11 | 0 Commands return fail | 0 Commands return fail |
| | AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-11 Expected results achieved |
|---|---|


| Case SWB-12 PDBlock Version 2.10 | |
|---|---|
| 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: | Fri Aug 06 16:11:39 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| Commands executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 0<br>A:\test-hdl SWB-12 McMillan PEB c 6F<br>A:\sig-log SWB-12 McMillan PEB<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 (08/06/04 at 16:11:09) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er |

**Case SWB-12 PDBlock Version 2.10**

|  | |
|---|---|
| | Drives Protected: 0 |
| | Return Code:      SUCCESS |
| | Bell:            ON |
| | Message:         ON |
| | Drive \| Mode \|    Length  Size (Mb) |
| |    0 \|  LBA \| 120103200      58644 |
| |     \|  CHS \|  16434495       8024 |
| | ***** Test Harness Log ***** |
| | CMD: A:\TEST-HDL.EXE SWB-12 McMillan PEB c 6F |
| | Case: SWB-12 |
| | Command set: Control |
| | Date: Fri Aug 06 16:11:39 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: McMillan |
| | Number of drives 1, Drives: 6F |
| |     Case  Cmd Drv Action  Stat Cry Count Cmd Name |
| |  0 SWB-12 <00> 80 Allowed 0000 Off    1  Reset |
| |  1 SWB-12 <0C> 80 Allowed 0000 Off    1  SeekDrive |
| |  2 SWB-12 <0D> 80 Allowed 0000 Off    1  AltReset |
| |  3 SWB-12 <11> 80 Allowed 0000 Off    1  Recalibrate |
| |  4 SWB-12 <47> 80 Allowed 0000 Off    1  ExtendedSeek |
| | Results for SWB-12 category c on drive 80 No commands blocked (0 of 5) |
| | Summary: 5 sent, 0 blocked, 5 not blocked |
| | |
| | |
| | |
| | ***** Signal Log ***** |
| | 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 | 1 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 achieved |
|---|---|

 

**Case SWB-13 PDBlock Version 2.10**

| Case summary: | SWB-13 Install all drives, configure return code to failure, protect with pattern odd, execute write commands. |
|---|---|
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. |
| | SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. |
| | SWB-AO-01. If a subset of all covered drives is specified for protection, then commands from the write category shall be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | 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: | Mon Aug 16 15:11:42 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| | Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors |
| | Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors |

| Case SWB-13 PDBlock Version 2.10 | |
|---|---|
| | Drive 83, 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>A:\tally13<br>A:\pdblock 13 /fail<br>A:\test-hdl SWB-13 Max PEB w 6F F5 E3 E4<br>A:\sig-log SWB-13 Max PEB<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 (08/16/04 at 15:11:21) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,3<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \| 120103200      58644<br>     \|  CHS \|  16434495       8024<br>   1 \|  LBA \|  40188960      19623<br>     \|  CHS \|  16434495       8024<br>   2 \|  LBA \|  17938985       8759<br>     \|  CHS \|  16434495       8024<br>   3 \|  LBA \|  17938985       8759<br>     \|  CHS \|  16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-13 Max PEB w 6F F5 E3 E4<br>Case: SWB-13<br>Command set: Write<br>Date: Mon Aug 16 15:11:42 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: Max<br>Number of drives 4, Drives: 6F F5 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-13 <03> 80 Allowed 0000 Off     1  WriteSectors<br>  1 SWB-13 <0B> 80 Allowed 0000 Off     1  WriteLong<br>  2 SWB-13 <43> 80 Allowed 0000 Off     1  ExtWrite<br>Results for SWB-13 category w on drive 80 No commands blocked (0 of 3)<br>  0 SWB-13 <03> 81 Blocked 0300 On      0  WriteSectors<br>  1 SWB-13 <0B> 81 Blocked 0300 On      0  WriteLong<br>  2 SWB-13 <43> 81 Blocked 0300 On      0  ExtWrite<br>Results for SWB-13 category w on drive 81 All commands blocked (3 of 3)<br>  0 SWB-13 <03> 82 Allowed 0000 Off     1  WriteSectors<br>  1 SWB-13 <0B> 82 Allowed 0000 Off     1  WriteLong<br>  2 SWB-13 <43> 82 Allowed 0000 Off     1  ExtWrite<br>Results for SWB-13 category w on drive 82 No commands blocked (0 of 3)<br>  0 SWB-13 <03> 83 Blocked 0300 On      0  WriteSectors<br>  1 SWB-13 <0B> 83 Blocked 0300 On      0  WriteLong<br>  2 SWB-13 <43> 83 Blocked 0300 On      0  ExtWrite<br>Results for SWB-13 category w on drive 83 All commands blocked (3 of 3)<br>Summary: 12 sent, 6 blocked, 6 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 6 Commands return fail | 6 Commands return fail |

| Case SWB-13 PDBlock Version 2.10 | | | |
|---|---|---|---|
| | 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 achieved | | |


| Case SWB-14 PDBlock Version 2.10 | |
|---|---|
| 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 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: | Mon Aug 16 15:15:45 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 01<br>A:\test-hdl SWB-14 Max PEB w 6F F5 E3 E4<br>A:\sig-log SWB-14 Max PEB<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 (08/16/04 at 15:15:24) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \|  120103200      58644<br>     \|  CHS \|   16434495       8024<br>   1 \|  LBA \|   40188960      19623<br>     \|  CHS \|   16434495       8024<br>   2 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>   3 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-14 Max PEB w 6F F5 E3 E4<br>Case: SWB-14<br>Command set: Write<br>Date: Mon Aug 16 15:15:45 2004 |

| Case SWB-14 PDBlock Version 2.10 | |
|---|---|
| | 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: Max<br>Number of drives 4, Drives: 6F F5 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-14 <03> 80 Blocked 0000 Off    0  WriteSectors<br>  1 SWB-14 <0B> 80 Blocked 0000 Off    0  WriteLong<br>  2 SWB-14 <43> 80 Blocked 0000 Off    0  ExtWrite<br>Results for SWB-14 category w on drive 80 All commands blocked (3 of 3)<br>  0 SWB-14 <03> 81 Blocked 0000 Off    0  WriteSectors<br>  1 SWB-14 <0B> 81 Blocked 0000 Off    0  WriteLong<br>  2 SWB-14 <43> 81 Blocked 0000 Off    0  ExtWrite<br>Results for SWB-14 category w on drive 81 All commands blocked (3 of 3)<br>  0 SWB-14 <03> 82 Allowed 0000 Off    1  WriteSectors<br>  1 SWB-14 <0B> 82 Allowed 0000 Off    1  WriteLong<br>  2 SWB-14 <43> 82 Allowed 0000 Off    1  ExtWrite<br>Results for SWB-14 category w on drive 82 No commands blocked (0 of 3)<br>  0 SWB-14 <03> 83 Allowed 0000 Off    1  WriteSectors<br>  1 SWB-14 <0B> 83 Allowed 0000 Off    1  WriteLong<br>  2 SWB-14 <43> 83 Allowed 0000 Off    1  ExtWrite<br>Results for SWB-14 category w on drive 83 No commands blocked (0 of 3)<br>Summary: 12 sent, 6 blocked, 6 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | | | |
|---|---|---|---|
| | **Assertion** | **Expected Results** | **Actual Results** |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected |
| | AM-10 | 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 achieved |
|---|---|

| Case SWB-15 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-15 Install all drives, configure return code to failure, protect with pattern first, execute configuration commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-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.<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: | Tue Aug 17 09:53:56 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |

| | |
|---|---|
| **Case SWB-15 PDBlock Version 2.10** | |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors |
| | Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors |
| | Drive 82, label F6 is an IBM-DTLA-307020 with 40188960 sectors |
| | Drive 83, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors |
| | Drive 84, 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] |
| | A:\tally13 |
| | A:\pdblock 0 /fail |
| | A:\test-hdl SWB-15 McMillan PEB x 6F F5 F6 E3 E4 |
| | A:\sig-log SWB-15 McMillan PEB |
| | Shutdown Test PC |
| Log File Highlights: | \*\*\*\*\* Monitor Execution \*\*\*\*\* |
| | Monitor BIOS interrupt 13h (disk service) |
| | tally13  compiled on 07/29/03 at 07:33:17 |
| | @(#) Version 1.1 Created 07/29/03 at 07:28:05 |
| | Now (08/17/04 at 09:53:34) Going . . .  TSR |
| | \*\*\*\*\* Install PDB Log \*\*\*\*\* |
| | PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er |
| | Drives Protected: 0 |
| | Return Code:      FAILURE |
| | Bell:             ON |
| | Message:          ON |
| | Drive | Mode |      Length  Size (Mb) |
| |     0 |  LBA | 120103200     58644 |
| |       |  CHS |  16434495      8024 |
| |     1 |  LBA |  40188960     19623 |
| |       |  CHS |  16434495      8024 |
| |     2 |  LBA |  40188960     19623 |
| |       |  CHS |  16434495      8024 |
| |     3 |  LBA |  17938985      8759 |
| |       |  CHS |  16434495      8024 |
| |     4 |  LBA |  17938985      8759 |
| |       |  CHS |  16434495      8024 |
| | \*\*\*\*\* Test Harness Log \*\*\*\*\* |
| | CMD: A:\TEST-HDL.EXE SWB-15 McMillan PEB x 6F F5 F6 E3 E4 |
| | Case: SWB-15 |
| | Command set: Configure |
| | Date: Tue Aug 17 09:53:56 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: McMillan |
| | Number of drives 5, Drives: 6F F5 F6 E3 E4 |
| |       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 Blocked 0300 On      0  InitDriveParms |
| |   4 SWB-15 <0E> 80 Blocked 0300 On      0  DiagnosticESDI |
| |   5 SWB-15 <0F> 80 Blocked 0300 On      0  DiagnosticESDI |
| |   6 SWB-15 <12> 80 Blocked 0300 On      0  DiagnosticRAM |
| |   7 SWB-15 <13> 80 Blocked 0300 On      0  DiagnosticDrive |
| |   8 SWB-15 <14> 80 Blocked 0300 On      0  DiagnosticCTL |
| | Results for SWB-15 category x on drive 80 All commands blocked (9 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)
              0 SWB-15 <05> 84 Blocked 0300 On     0  FormatTrack
              1 SWB-15 <06> 84 Blocked 0300 On     0  FormatBadSectors
              2 SWB-15 <07> 84 Blocked 0300 On     0  FormatCyl
              3 SWB-15 <09> 84 Blocked 0300 On     0  InitDriveParms
              4 SWB-15 <0E> 84 Blocked 0300 On     0  DiagnosticESDI
              5 SWB-15 <0F> 84 Blocked 0300 On     0  DiagnosticESDI
              6 SWB-15 <12> 84 Blocked 0300 On     0  DiagnosticRAM
              7 SWB-15 <13> 84 Blocked 0300 On     0  DiagnosticDrive
              8 SWB-15 <14> 84 Blocked 0300 On     0  DiagnosticCTL
        Results for SWB-15 category x on drive 84 All commands blocked (9 of 9)
        Summary: 45 sent, 18 blocked, 27 not blocked



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

| | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| Results: | AM-07 | Tool active message | Tool active message |
| | AM-08 | 5 drives identified | 5 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected |
| | AM-09 | Drive 84 is unprotected | Drive 84 is unprotected |
| | AM-11 | 18 Commands return fail | 18 Commands return fail |
| | AO-02 | 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-07 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| | AO-07 | No cmds to drive 84 blocked | All cmds to drive 84 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-15 Expected results not achieved for assertions: AO-07 | | |

---

| **Case SWB-16 PDBlock Version 2.10** | |
|---|---|
| Case summary: | SWB-16 Install all drives, configure return code to success, protect with pattern mid, execute configuration commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-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.<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 |

| Case SWB-16 PDBlock Version 2.10 | |
|---|---|
| | either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Tue Aug 17 09:58:50 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 83, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 84, 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>A:\tally13<br>A:\pdblock 2<br>A:\test-hdl SWB-16 McMillan PEB x 6F F5 F6 E3 E4<br>A:\sig-log SWB-16 McMillan PEB<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 (08/17/04 at 09:58:27) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|      Length  Size (Mb)<br>   0 \|  LBA \|  120103200      58644<br>     \|  CHS \|   16434495       8024<br>   1 \|  LBA \|   40188960      19623<br>     \|  CHS \|   16434495       8024<br>   2 \|  LBA \|   40188960      19623<br>     \|  CHS \|   16434495       8024<br>   3 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>   4 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-16 McMillan PEB x 6F F5 F6 E3 E4<br>Case: SWB-16<br>Command set: Configure<br>Date: Tue Aug 17 09:58:50 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: McMillan<br>Number of drives 5, Drives: 6F F5 F6 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br> 0 SWB-16 <05> 80 Allowed 0000 Off     1  FormatTrack<br> 1 SWB-16 <06> 80 Allowed 0000 Off     1  FormatBadSectors<br> 2 SWB-16 <07> 80 Allowed 0000 Off     1  FormatCyl<br> 3 SWB-16 <09> 80 Allowed 0000 Off     1  InitDriveParms<br> 4 SWB-16 <0E> 80 Allowed 0000 Off     1  DiagnosticESDI<br> 5 SWB-16 <0F> 80 Allowed 0000 Off     1  DiagnosticESDI<br> 6 SWB-16 <12> 80 Allowed 0000 Off     1  DiagnosticRAM<br> 7 SWB-16 <13> 80 Allowed 0000 Off     1  DiagnosticDrive<br> 8 SWB-16 <14> 80 Allowed 0000 Off     1  DiagnosticCTL<br>Results for SWB-16 category x on drive 80 No commands blocked (0 of 9)<br> 0 SWB-16 <05> 81 Allowed 0000 Off     1  FormatTrack<br> 1 SWB-16 <06> 81 Allowed 0000 Off     1  FormatBadSectors<br> 2 SWB-16 <07> 81 Allowed 0000 Off     1  FormatCyl<br> 3 SWB-16 <09> 81 Allowed 0000 Off     1  InitDriveParms<br> 4 SWB-16 <0E> 81 Allowed 0000 Off     1  DiagnosticESDI<br> 5 SWB-16 <0F> 81 Allowed 0000 Off     1  DiagnosticESDI<br> 6 SWB-16 <12> 81 Allowed 0000 Off     1  DiagnosticRAM<br> 7 SWB-16 <13> 81 Allowed 0000 Off     1  DiagnosticDrive |

| Case SWB-16 PDBlock Version 2.10 | |
|---|---|
| |   8 SWB-16 <14> 81 Allowed 0000 Off    1  DiagnosticCTL<br>Results for SWB-16 category x on drive 81 No commands blocked (0 of 9)<br>  0 SWB-16 <05> 82 Blocked 0000 Off    0  FormatTrack<br>  1 SWB-16 <06> 82 Blocked 0000 Off    0  FormatBadSectors<br>  2 SWB-16 <07> 82 Blocked 0000 Off    0  FormatCyl<br>  3 SWB-16 <09> 82 Blocked 0000 Off    0  InitDriveParms<br>  4 SWB-16 <0E> 82 Blocked 0000 Off    0  DiagnosticESDI<br>  5 SWB-16 <0F> 82 Blocked 0000 Off    0  DiagnosticESDI<br>  6 SWB-16 <12> 82 Blocked 0000 Off    0  DiagnosticRAM<br>  7 SWB-16 <13> 82 Blocked 0000 Off    0  DiagnosticDrive<br>  8 SWB-16 <14> 82 Blocked 0000 Off    0  DiagnosticCTL<br>Results for SWB-16 category x on drive 82 All commands blocked (9 of 9)<br>  0 SWB-16 <05> 83 Allowed 0000 Off    1  FormatTrack<br>  1 SWB-16 <06> 83 Allowed 0000 Off    1  FormatBadSectors<br>  2 SWB-16 <07> 83 Allowed 0000 Off    1  FormatCyl<br>  3 SWB-16 <09> 83 Allowed 0000 Off    1  InitDriveParms<br>  4 SWB-16 <0E> 83 Allowed 0000 Off    1  DiagnosticESDI<br>  5 SWB-16 <0F> 83 Allowed 0000 Off    1  DiagnosticESDI<br>  6 SWB-16 <12> 83 Allowed 0000 Off    1  DiagnosticRAM<br>  7 SWB-16 <13> 83 Allowed 0000 Off    1  DiagnosticDrive<br>  8 SWB-16 <14> 83 Allowed 0000 Off    1  DiagnosticCTL<br>Results for SWB-16 category x on drive 83 No commands blocked (0 of 9)<br>  0 SWB-16 <05> 84 Blocked 0000 Off    0  FormatTrack<br>  1 SWB-16 <06> 84 Blocked 0000 Off    0  FormatBadSectors<br>  2 SWB-16 <07> 84 Blocked 0000 Off    0  FormatCyl<br>  3 SWB-16 <09> 84 Blocked 0000 Off    0  InitDriveParms<br>  4 SWB-16 <0E> 84 Blocked 0000 Off    0  DiagnosticESDI<br>  5 SWB-16 <0F> 84 Blocked 0000 Off    0  DiagnosticESDI<br>  6 SWB-16 <12> 84 Blocked 0000 Off    0  DiagnosticRAM<br>  7 SWB-16 <13> 84 Blocked 0000 Off    0  DiagnosticDrive<br>  8 SWB-16 <14> 84 Blocked 0000 Off    0  DiagnosticCTL<br>Results for SWB-16 category x on drive 84 All commands blocked (9 of 9)<br>Summary: 45 sent, 18 blocked, 27 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 5 drives identified | 5 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected |
| | AM-09 | Drive 84 is unprotected | Drive 84 is unprotected |
| | AM-10 | 18 Commands return success | 18 Commands return success |
| | AO-02 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| | AO-07 | No cmds to drive 84 blocked | All cmds to drive 84 blocked |
| | AO-10 | Signal observed | Signal observed |

| Analysis: | SWB-16 Expected results not achieved for assertions: AO-07 |
|---|---|


| Case SWB-17 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-17 Install all drives, configure return code to failure, protect with pattern random_p, execute miscellaneous commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-03. If a subset of all covered drives is specified for |

| Case SWB-17 PDBlock Version 2.10 | |
|---|---|
| | protection, then commands from the miscellaneous category shall be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | 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: | Tue Aug 17 09:03:30 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 83, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 84, 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>A:\tally13<br>A:\pdblock 1 /fail<br>A:\test-hdl SWB-17 McMillan PEB m 6F F5 F6 E3 E4<br>A:\sig-log SWB-17 McMillan PEB<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 (08/17/04 at 09:03:08) Going . . .   TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1<br>Return Code:       FAILURE<br>Bell:              ON<br>Message:           ON<br>Drive \| Mode \|      Length  Size (Mb)<br>    0 \|  LBA \|  120103200     58644<br>      \|  CHS \|   16434495      8024<br>    1 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    2 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    3 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>    4 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-17 McMillan PEB m 6F F5 F6 E3 E4<br>Case: SWB-17<br>Command set: Misc<br>Date: Tue Aug 17 09:03:30 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: McMillan<br>Number of drives 5, Drives: 6F F5 F6 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-17 <16> 80 Allowed 0000 Off     1 Undefined<br>          ...<br><br>          misc commands 17-FD results omitted<br><br>          see log files for full results<br><br>          ...<br><br>226 SWB-17 <FE> 80 Allowed 0000 Off     1 Undefined<br>227 SWB-17 <FF> 80 Allowed 0000 Off     1 Undefined<br>Results for SWB-17 category m on drive 80 Not all commands blocked (1 |

```
Case SWB-17 PDBlock Version 2.10
```

```
                             of 228)
                               0 SWB-17 <16> 81 Allowed 0000 Off     1 Undefined
                                     ...

                                     misc commands 17-FD results omitted

                                     see log files for full results


                                     ...

                             226 SWB-17 <FE> 81 Allowed 0000 Off     1 Undefined
                             227 SWB-17 <FF> 81 Allowed 0000 Off     1 Undefined
                             Results for SWB-17 category m on drive 81 Not all commands blocked (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)
                               0 SWB-17 <16> 84 Allowed 0000 Off     1 Undefined
                                     ...

                                     misc commands 17-FD results omitted

                                     see log files for full results


                                     ...

                             226 SWB-17 <FE> 84 Allowed 0000 Off     1 Undefined
                             227 SWB-17 <FF> 84 Allowed 0000 Off     1 Undefined
                             Results for SWB-17 category m on drive 84 Not all commands blocked (3
                             of 228)
                             Summary: 1140 sent, 9 blocked, 1131 not blocked



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

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 5 drives identified | 5 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected |
| | AM-09 | Drive 84 is unprotected | Drive 84 is unprotected |
| | AM-11 | 9 Commands return fail | 9 Commands return fail |
| | AO-03 | All cmds to drive 81 blocked | Not all cmds to drive 81 blocked |

**Case SWB-17 PDBlock Version 2.10**

| | | | |
|---|---|---|---|
| | 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-07 | No cmds to drive 84 blocked | Not all cmds to drive 84 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-17 Expected results not achieved for assertions: AO-03 AO-07 | | |


**Case SWB-18 PDBlock Version 2.10**

| | |
|---|---|
| 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.<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-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.<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: | Tue Aug 17 10:10:42 2004 |
| Test PC: | McMillan |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 83, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 84, 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>A:\tally13<br>A:\pdblock 0123<br>A:\test-hdl SWB-18 McMillan PEB m 6F F5 F6 E3 E4<br>A:\sig-log SWB-18 McMillan PEB<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 (08/17/04 at 10:10:20) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br><pre>Drive \| Mode \|    Length  Size (Mb)<br>    0 \|  LBA \| 120103200      58644<br>      \|  CHS \|  16434495       8024<br>    1 \|  LBA \|  40188960      19623<br>      \|  CHS \|  16434495       8024<br>    2 \|  LBA \|  40188960      19623<br>      \|  CHS \|  16434495       8024<br>    3 \|  LBA \|  17938985       8759<br>      \|  CHS \|  16434495       8024<br>    4 \|  LBA \|  17938985       8759</pre> |

```
Case SWB-18 PDBlock Version 2.10
                     | CHS |  16434495        8024
               ***** Test Harness Log *****
               CMD: A:\TEST-HDL.EXE SWB-18 McMillan PEB m 6F F5 F6 E3 E4
               Case: SWB-18
               Command set: Misc
               Date: Tue Aug 17 10:10:42 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: McMillan
               Number of drives 5, Drives: 6F F5 F6 E3 E4
                   Case  Cmd Drv Action  Stat Cry Count Cmd Name
                 0 SWB-18 <16> 80 Allowed 0000 Off     1 Undefined
                       ...

                       misc commands 17-FD results omitted

                       see log files for full results


                       ...

               226 SWB-18 <FE> 80 Allowed 0000 Off     1 Undefined
               227 SWB-18 <FF> 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 <16> 81 Allowed 0000 Off     1 Undefined
                       ...

                       misc commands 17-FD results omitted

                       see log files for full results


                       ...

               226 SWB-18 <FE> 81 Allowed 0000 Off     1 Undefined
               227 SWB-18 <FF> 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 <16> 82 Allowed 0000 Off     1 Undefined
                       ...

                       misc commands 17-FD results omitted

                       see log files for full results


                       ...

               226 SWB-18 <FE> 82 Allowed 0000 Off     1 Undefined
               227 SWB-18 <FF> 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 <16> 83 Allowed 0000 Off     1 Undefined
                       ...

                       misc commands 17-FD results omitted

                       see log files for full results


                       ...

               226 SWB-18 <FE> 83 Allowed 0000 Off     1 Undefined
               227 SWB-18 <FF> 83 Allowed 0000 Off     1 Undefined
               Results for SWB-18 category m on drive 83 Not all commands blocked (3
               of 228)
                 0 SWB-18 <16> 84 Allowed 0000 Off     1 Undefined
                       ...

                       misc commands 17-FD results omitted
```

**Case SWB-18 PDBlock Version 2.10**

|  |  |
|---|---|
|  | see log files for full results<br><br>...<br><br>226 SWB-18 <FE> 84 Allowed 0000 Off    1 Undefined<br>227 SWB-18 <FF> 84 Allowed 0000 Off    1 Undefined<br>Results for SWB-18 category m on drive 84 Not all commands blocked (3 of 228)<br>Summary: 1140 sent, 15 blocked, 1125 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
|  | AM-07 | Tool active message | Tool active message |
|  | AM-08 | 5 drives identified | 5 drives identified |
|  | AM-09 | Drive 80 is protected | Drive 80 is protected |
|  | AM-09 | Drive 81 is protected | Drive 81 is protected |
|  | AM-09 | Drive 82 is protected | Drive 82 is protected |
|  | AM-09 | Drive 83 is protected | Drive 83 is protected |
|  | AM-09 | Drive 84 is unprotected | Drive 84 is unprotected |
|  | AM-10 | 15 Commands return success | 10 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-03 | All cmds to drive 83 blocked | Not all cmds to drive 83 blocked |
|  | AO-07 | No cmds to drive 84 blocked | Not all cmds to drive 84 blocked |
|  | AO-10 | Signal observed | Signal observed |

| Analysis: | SWB-18 Expected results not achieved for assertions: AM-10 AO-03 AO-07 |
|---|---|

---

**Case SWB-19 PDBlock Version 2.10**

| Case summary: | SWB-19 Install all drives, configure return code to failure, protect with pattern last, execute read commands. |
|---|---|
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-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: | Fri Sep 24 14:28:00 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 3 /fail |

| Case SWB-19 PDBlock Version 2.10 | |
|---|---|
| | A:\test-hdl SWB-19 Joe PEB r F5 F6 E3 E4 |
| | A:\sig-log SWB-19 Joe PEB |
| | 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 (09/24/04 at 14:27:34) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 3<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    1 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    2 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>    3 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-19 Joe PEB r F5 F6 E3 E4<br>Case: SWB-19<br>Command set: Read<br>Date: Fri Sep 24 14:28:00 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: Joe<br>Number of drives 4, Drives: F5 F6 E3 E4<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-19 <02> 80 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-19 <0A> 80 Allowed 0000 Off     1  ReadLong<br>  2 SWB-19 <42> 80 Allowed 0000 Off     1  ExtRead<br>Results for SWB-19 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-19 <02> 81 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-19 <0A> 81 Allowed 0000 Off     1  ReadLong<br>  2 SWB-19 <42> 81 Allowed 0000 Off     1  ExtRead<br>Results for SWB-19 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-19 <02> 82 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-19 <0A> 82 Allowed 0000 Off     1  ReadLong<br>  2 SWB-19 <42> 82 Allowed 0000 Off     1  ExtRead<br>Results for SWB-19 category r on drive 82 No commands blocked (0 of 3)<br>  0 SWB-19 <02> 83 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-19 <0A> 83 Allowed 0000 Off     1  ReadLong<br>  2 SWB-19 <42> 83 Allowed 0000 Off     1  ExtRead<br>Results for SWB-19 category r on drive 83 No commands blocked (0 of 3)<br>Summary: 12 sent, 0 blocked, 12 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 0 Commands return fail | 0 Commands return fail |
| | AO-04 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |

| Case SWB-19 PDBlock Version 2.10 | | | |
|---|---|---|---|
| | AO-10 | No signal observed | No signal observed |
| Analysis: | SWB-19 Expected results achieved | | |

| Case SWB-20 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-20 Install all drives, configure return code to success, protect with pattern not_mid, 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: | Fri Sep 24 14:31:28 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 013<br>A:\test-hdl SWB-20 Joe PEB r F5 F6 E3 E4<br>A:\sig-log SWB-20 Joe PEB<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 (09/24/04 at 14:31:01) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1,3<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   40188960      19623<br>      \|  CHS \|   16434495       8024<br>    1 \|  LBA \|   40188960      19623<br>      \|  CHS \|   16434495       8024<br>    2 \|  LBA \|   17938985       8759<br>      \|  CHS \|   16434495       8024<br>    3 \|  LBA \|   17938985       8759<br>      \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-20 Joe PEB r F5 F6 E3 E4<br>Case: SWB-20<br>Command set: Read<br>Date: Fri Sep 24 14:31:28 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: Joe |

| Case SWB-20 PDBlock Version 2.10 | |
|---|---|
| | Number of drives 4, Drives: F5 F6 E3 E4 |
| |      Case  Cmd Drv Action  Stat Cry Count Cmd Name |
| |  0 SWB-20 <02> 80 Allowed 0000 Off    1  ReadSectors |
| |  1 SWB-20 <0A> 80 Allowed 0000 Off    1  ReadLong |
| |  2 SWB-20 <42> 80 Allowed 0000 Off    1  ExtRead |
| | Results for SWB-20 category r on drive 80 No commands blocked (0 of 3) |
| |  0 SWB-20 <02> 81 Allowed 0000 Off    1  ReadSectors |
| |  1 SWB-20 <0A> 81 Allowed 0000 Off    1  ReadLong |
| |  2 SWB-20 <42> 81 Allowed 0000 Off    1  ExtRead |
| | Results for SWB-20 category r on drive 81 No commands blocked (0 of 3) |
| |  0 SWB-20 <02> 82 Allowed 0000 Off    1  ReadSectors |
| |  1 SWB-20 <0A> 82 Allowed 0000 Off    1  ReadLong |
| |  2 SWB-20 <42> 82 Allowed 0000 Off    1  ExtRead |
| | Results for SWB-20 category r on drive 82 No commands blocked (0 of 3) |
| |  0 SWB-20 <02> 83 Allowed 0000 Off    1  ReadSectors |
| |  1 SWB-20 <0A> 83 Allowed 0000 Off    1  ReadLong |
| |  2 SWB-20 <42> 83 Allowed 0000 Off    1  ExtRead |
| | Results for SWB-20 category r on drive 83 No commands blocked (0 of 3) |
| | Summary: 12 sent, 0 blocked, 12 not blocked |
| | |
| | ***** Signal Log ***** |
| | SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-10 | 0 Commands return success | 0 Commands return success |
| | AO-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-04 | No cmds to drive 83 blocked | No cmds to drive 83 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-20 Expected results achieved |
|---|---|


| Case SWB-21 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-21 Install all drives, configure return code to failure, protect with pattern high, execute information commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. |
| | SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. |
| | SWB-AO-06. If a subset of all covered drives is specified for protection, then commands from the information category shall not be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | 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: | Fri Sep 24 14:34:48 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors |
| | Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors |
| | Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors |
| | Drive 83, label E4 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors |
| Commands | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222] |

| Case SWB-21 PDBlock Version 2.10 | |
|---|---|
| executed: | A:\tally13<br>A:\pdblock 23 /fail<br>A:\test-hdl SWB-21 Joe PEB i F5 F6 E3 E4<br>A:\sig-log SWB-21 Joe PEB<br>Shutdown Test PC |
| Log File<br>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 (09/24/04 at 14:34:21) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2,3<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length  Size (Mb)<br>    0 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    1 \|  LBA \|   40188960     19623<br>      \|  CHS \|   16434495      8024<br>    2 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>    3 \|  LBA \|   17938985      8759<br>      \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-21 Joe PEB i F5 F6 E3 E4<br>Case: SWB-21<br>Command set: Information<br>Date: Fri Sep 24 14:34:48 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: Joe<br>Number of drives 4, Drives: F5 F6 E3 E4<br>      Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-21 <01> 80 Allowed 0000 Off     1  GetLastStatus<br>  1 SWB-21 <04> 80 Allowed 0000 Off     1  VerifySectors<br>  2 SWB-21 <08> 80 Allowed 0000 Off     1  ReadDriveParms<br>  3 SWB-21 <10> 80 Allowed 0000 Off     1  TestDriveReady<br>  4 SWB-21 <15> 80 Allowed 0000 Off     1  ReadDriveType<br>  5 SWB-21 <41> 80 Allowed 0000 Off     1  CheckForExtensions<br>  6 SWB-21 <44> 80 Allowed 0000 Off     1  VerifySectors<br>  7 SWB-21 <48> 80 Allowed 0000 Off     1  GetDriveParms<br>Results for SWB-21 category i on drive 80 No commands blocked (0 of 8)<br>  0 SWB-21 <01> 81 Allowed 0000 Off     1  GetLastStatus<br>  1 SWB-21 <04> 81 Allowed 0000 Off     1  VerifySectors<br>  2 SWB-21 <08> 81 Allowed 0000 Off     1  ReadDriveParms<br>  3 SWB-21 <10> 81 Allowed 0000 Off     1  TestDriveReady<br>  4 SWB-21 <15> 81 Allowed 0000 Off     1  ReadDriveType<br>  5 SWB-21 <41> 81 Allowed 0000 Off     1  CheckForExtensions<br>  6 SWB-21 <44> 81 Allowed 0000 Off     1  VerifySectors<br>  7 SWB-21 <48> 81 Allowed 0000 Off     1  GetDriveParms<br>Results for SWB-21 category i on drive 81 No commands blocked (0 of 8)<br>  0 SWB-21 <01> 82 Allowed 0000 Off     1  GetLastStatus<br>  1 SWB-21 <04> 82 Allowed 0000 Off     1  VerifySectors<br>  2 SWB-21 <08> 82 Allowed 0000 Off     1  ReadDriveParms<br>  3 SWB-21 <10> 82 Allowed 0000 Off     1  TestDriveReady<br>  4 SWB-21 <15> 82 Allowed 0000 Off     1  ReadDriveType<br>  5 SWB-21 <41> 82 Allowed 0000 Off     1  CheckForExtensions<br>  6 SWB-21 <44> 82 Allowed 0000 Off     1  VerifySectors<br>  7 SWB-21 <48> 82 Allowed 0000 Off     1  GetDriveParms<br>Results for SWB-21 category i on drive 82 No commands blocked (0 of 8)<br>  0 SWB-21 <01> 83 Allowed 0000 Off     1  GetLastStatus<br>  1 SWB-21 <04> 83 Allowed 0000 Off     1  VerifySectors<br>  2 SWB-21 <08> 83 Allowed 0000 Off     1  ReadDriveParms<br>  3 SWB-21 <10> 83 Allowed 0000 Off     1  TestDriveReady<br>  4 SWB-21 <15> 83 Allowed 0000 Off     1  ReadDriveType |

| Case SWB-21 PDBlock Version 2.10 | |
| --- | --- |
| |      5 SWB-21 <41> 83 Allowed 0000 Off    1  CheckForExtensions<br>     6 SWB-21 <44> 83 Allowed 0000 Off    1  VerifySectors<br>     7 SWB-21 <48> 83 Allowed 0000 Off    1  GetDriveParms<br>Results for SWB-21 category i on drive 83 No commands blocked (0 of 8)<br>Summary: 32 sent, 0 blocked, 32 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
| --- | --- | --- | --- |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 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 achieved |


| Case SWB-22 PDBlock Version 2.10 | |
| --- | --- |
| 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: | Fri Sep 24 14:47:19 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 123<br>A:\test-hdl SWB-22 Joe PEB i F5 F6 E3 E4<br>A:\sig-log SWB-22 Joe PEB<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 (09/24/04 at 14:46:52) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,2,3<br>Return Code:     SUCCESS |

```
Case SWB-22 PDBlock Version 2.10
              Bell:            ON
              Message:         ON
              Drive | Mode |     Length   Size (Mb)
                  0 |  LBA |   40188960       19623
                    |  CHS |   16434495        8024
                  1 |  LBA |   40188960       19623
                    |  CHS |   16434495        8024
                  2 |  LBA |   17938985        8759
                    |  CHS |   16434495        8024
                  3 |  LBA |   17938985        8759
                    |  CHS |   16434495        8024
              ***** Test Harness Log *****
              CMD: A:\TEST-HDL.EXE SWB-22 Joe PEB i F5 F6 E3 E4
              Case: SWB-22
              Command set: Information
              Date: Fri Sep 24 14:47:19 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: Joe
              Number of drives 4, Drives: F5 F6 E3 E4
                   Case  Cmd Drv Action  Stat Cry Count Cmd Name
                0 SWB-22 <01> 80 Allowed 0000 Off     1  GetLastStatus
                1 SWB-22 <04> 80 Allowed 0000 Off     1  VerifySectors
                2 SWB-22 <08> 80 Allowed 0000 Off     1  ReadDriveParms
                3 SWB-22 <10> 80 Allowed 0000 Off     1  TestDriveReady
                4 SWB-22 <15> 80 Allowed 0000 Off     1  ReadDriveType
                5 SWB-22 <41> 80 Allowed 0000 Off     1  CheckForExtensions
                6 SWB-22 <44> 80 Allowed 0000 Off     1  VerifySectors
                7 SWB-22 <48> 80 Allowed 0000 Off     1  GetDriveParms
              Results for SWB-22 category i on drive 80 No commands blocked (0 of 8)
                0 SWB-22 <01> 81 Allowed 0000 Off     1  GetLastStatus
                1 SWB-22 <04> 81 Allowed 0000 Off     1  VerifySectors
                2 SWB-22 <08> 81 Allowed 0000 Off     1  ReadDriveParms
                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
```

| | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| Results: | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |

**Case SWB-22 PDBlock Version 2.10**

|  | 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 |
| Analysis: | SWB-22 Expected results achieved | | |

**Case SWB-23 PDBlock Version 2.10**

| | |
|---|---|
| Case summary: | SWB-23 Install all drives, configure return code to failure, protect with pattern random_u, execute control commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-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.<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: | Fri Sep 24 14:51:00 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 023 /fail<br>A:\test-hdl SWB-23 Joe PEB c F5 F6 E3 E4<br>A:\sig-log SWB-23 Joe PEB<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 (09/24/04 at 14:50:33) Going . . .  TSR<br>\*\*\*\*\* Install PDB Log \*\*\*\*\*<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,2,3<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length  Size (Mb)<br>   0 \|  LBA \|  40188960     19623<br>     \|  CHS \|  16434495      8024<br>   1 \|  LBA \|  40188960     19623<br>     \|  CHS \|  16434495      8024<br>   2 \|  LBA \|  17938985      8759<br>     \|  CHS \|  16434495      8024<br>   3 \|  LBA \|  17938985      8759<br>     \|  CHS \|  16434495      8024<br>\*\*\*\*\* Test Harness Log \*\*\*\*\*<br>CMD: A:\TEST-HDL.EXE SWB-23 Joe PEB c F5 F6 E3 E4 |

| Case SWB-23 PDBlock Version 2.10 | |
| --- | --- |
| | Case: SWB-23<br>Command set: Control<br>Date: Fri Sep 24 14:51:00 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: Joe<br>Number of drives 4, Drives: F5 F6 E3 E4 |

```
      Case  Cmd Drv Action  Stat Cry Count Cmd Name
  0 SWB-23 <00> 80 Allowed 0000 Off     1  Reset
  1 SWB-23 <0C> 80 Allowed 0000 Off     1  SeekDrive
  2 SWB-23 <0D> 80 Allowed 0000 Off     1  AltReset
  3 SWB-23 <11> 80 Allowed 0000 Off     1  Recalibrate
  4 SWB-23 <47> 80 Allowed 0000 Off     1  ExtendedSeek
Results for SWB-23 category c on drive 80 No commands blocked (0 of 5)
  0 SWB-23 <00> 81 Allowed 0000 Off     1  Reset
  1 SWB-23 <0C> 81 Allowed 0000 Off     1  SeekDrive
  2 SWB-23 <0D> 81 Allowed 0000 Off     1  AltReset
  3 SWB-23 <11> 81 Allowed 0000 Off     1  Recalibrate
  4 SWB-23 <47> 81 Allowed 0000 Off     1  ExtendedSeek
Results for SWB-23 category c on drive 81 No commands blocked (0 of 5)
  0 SWB-23 <00> 82 Allowed 0000 Off     1  Reset
  1 SWB-23 <0C> 82 Allowed 0000 Off     1  SeekDrive
  2 SWB-23 <0D> 82 Allowed 0000 Off     1  AltReset
  3 SWB-23 <11> 82 Allowed 0000 Off     1  Recalibrate
  4 SWB-23 <47> 82 Allowed 0000 Off     1  ExtendedSeek
Results for SWB-23 category c on drive 82 No commands blocked (0 of 5)
  0 SWB-23 <00> 83 Allowed 0000 Off     1  Reset
  1 SWB-23 <0C> 83 Allowed 0000 Off     1  SeekDrive
  2 SWB-23 <0D> 83 Allowed 0000 Off     1  AltReset
  3 SWB-23 <11> 83 Allowed 0000 Off     1  Recalibrate
  4 SWB-23 <47> 83 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
```

| Results: | Assertion | Expected Results | Actual Results |
| --- | --- | --- | --- |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is 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 achieved | | |

| Case SWB-24 PDBlock Version 2.10 | |
| --- | --- |
| Case summary: | SWB-24 Install all drives, configure return code to success, protect with pattern even, execute control commands. |
| Assertions<br>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. |

| Case SWB-24 PDBlock Version 2.10 | |
|---|---|
| | SWB-AO-05. If a subset of all covered drives is specified for protection, then commands from the control category shall not be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | 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: | Fri Sep 24 14:54:18 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 02<br>A:\test-hdl SWB-24 Joe PEB c F5 F6 E3 E4<br>A:\sig-log SWB-24 Joe PEB<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 (09/24/04 at 14:53:52) Going . . .   TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,2<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|      Length   Size (Mb)<br>   0 \|  LBA  \|   40188960      19623<br>     \|  CHS  \|   16434495       8024<br>   1 \|  LBA  \|   40188960      19623<br>     \|  CHS  \|   16434495       8024<br>   2 \|  LBA  \|   17938985       8759<br>     \|  CHS  \|   16434495       8024<br>   3 \|  LBA  \|   17938985       8759<br>     \|  CHS  \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-24 Joe PEB c F5 F6 E3 E4<br>Case: SWB-24<br>Command set: Control<br>Date: Fri Sep 24 14:54:18 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: Joe<br>Number of drives 4, Drives: F5 F6 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-24 <00> 80 Allowed 0000 Off     1  Reset<br>  1 SWB-24 <0C> 80 Allowed 0000 Off     1  SeekDrive<br>  2 SWB-24 <0D> 80 Allowed 0000 Off     1  AltReset<br>  3 SWB-24 <11> 80 Allowed 0000 Off     1  Recalibrate<br>  4 SWB-24 <47> 80 Allowed 0000 Off     1  ExtendedSeek<br>Results for SWB-24 category c on drive 80 No commands blocked (0 of 5)<br>  0 SWB-24 <00> 81 Allowed 0000 Off     1  Reset<br>  1 SWB-24 <0C> 81 Allowed 0000 Off     1  SeekDrive<br>  2 SWB-24 <0D> 81 Allowed 0000 Off     1  AltReset<br>  3 SWB-24 <11> 81 Allowed 0000 Off     1  Recalibrate<br>  4 SWB-24 <47> 81 Allowed 0000 Off     1  ExtendedSeek<br>Results for SWB-24 category c on drive 81 No commands blocked (0 of 5)<br>  0 SWB-24 <00> 82 Allowed 0000 Off     1  Reset<br>  1 SWB-24 <0C> 82 Allowed 0000 Off     1  SeekDrive |

| Case SWB-24 PDBlock Version 2.10 | |
|---|---|
| | 2 SWB-24 <0D> 82 Allowed 0000 Off    1  AltReset<br>3 SWB-24 <11> 82 Allowed 0000 Off    1  Recalibrate<br>4 SWB-24 <47> 82 Allowed 0000 Off    1  ExtendedSeek<br>Results for SWB-24 category c on drive 82 No commands blocked (0 of 5)<br> 0 SWB-24 <00> 83 Allowed 0000 Off    1  Reset<br> 1 SWB-24 <0C> 83 Allowed 0000 Off    1  SeekDrive<br> 2 SWB-24 <0D> 83 Allowed 0000 Off    1  AltReset<br> 3 SWB-24 <11> 83 Allowed 0000 Off    1  Recalibrate<br> 4 SWB-24 <47> 83 Allowed 0000 Off    1  ExtendedSeek<br>Results for SWB-24 category c on drive 83 No commands blocked (0 of 5)<br>Summary: 20 sent, 0 blocked, 20 not blocked<br><br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected |
| | AM-10 | 0 Commands return success | 0 Commands return success |
| | AO-05 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-05 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-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 achieved |

<br>

| Case SWB-25 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-25 Install three drives, configure return code to failure, protect with pattern PUU, execute write commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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: | Fri Aug 06 15:36:14 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 0 /fail<br>A:\test-hdl SWB-25 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-25 Joe PEB<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-25 PDBlock Version 2.10 | |
|---|---|
| | @(#) Version 1.1 Created 07/29/03 at 07:28:05<br>Now (08/06/04 at 15:35:45) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \| LBA  \|   35916548     17537<br>      \| CHS  \|   16434495      8024<br>    1 \| LBA  \|   39102336     19092<br>      \| CHS  \|   16434495      8024<br>    2 \| LBA  \|   58633344     28629<br>      \| CHS  \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-25 Joe PEB w 8A 90 1F<br>Case: SWB-25<br>Command set: Write<br>Date: Fri Aug 06 15:36:14 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-25 <03> 80 Blocked 0300 On      0  WriteSectors<br>  1 SWB-25 <0B> 80 Blocked 0300 On      0  WriteLong<br>  2 SWB-25 <43> 80 Blocked 0300 On      0  ExtWrite<br>Results for SWB-25 category w on drive 80 All commands blocked (3 of 3)<br>  0 SWB-25 <03> 81 Allowed 0000 Off     1  WriteSectors<br>  1 SWB-25 <0B> 81 Allowed 0000 Off     1  WriteLong<br>  2 SWB-25 <43> 81 Allowed 0000 Off     1  ExtWrite<br>Results for SWB-25 category w on drive 81 No commands blocked (0 of 3)<br>  0 SWB-25 <03> 82 Allowed 0000 Off     1  WriteSectors<br>  1 SWB-25 <0B> 82 Allowed 0000 Off     1  WriteLong<br>  2 SWB-25 <43> 82 Allowed 0000 Off     1  ExtWrite<br>Results for SWB-25 category w on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 3 blocked, 6 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-11 | 3 Commands return fail | 3 Commands return fail |
| | AO-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-25 Expected results achieved | | |

| Case SWB-26 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-26 Install three drives, configure return code to success, protect with pattern UPU, execute write commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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. |

| Case SWB-26 PDBlock Version 2.10 | |
|---|---|
| | SWB-AM-10. If the tool is configured to return success on blocked<br>    commands and the tool blocks a command then the return code shall<br>    indicate successful command execution.<br>SWB-AO-01. If a subset of all covered drives is specified for<br>    protection, then commands from the write category shall be blocked<br>    for drives in the selected subset.<br>SWB-AO-07. If a subset of all covered drives is specified for<br>    protection, then no commands from any category shall be blocked for<br>    drives not in the selected subset.<br>SWB-AO-10. If the tool blocks a command then the tool shall issue<br>    either an audio or a visual signal. |
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 15:51:15 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives<br>Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, label 1F is a Quantum ATLAS10K3_18_SCA Drive with 35916548<br>sectors |
| Commands<br>executed: | Boot Test PC to (DOS 7.1) Windows 98 [Version 4.10.2222]<br>A:\tally13<br>A:\pdblock 1<br>A:\test-hdl SWB-26 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-26 Joe PEB<br>Shutdown Test PC |
| Log File<br>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 (08/06/04 at 15:50:45) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1<br>Return Code:    SUCCESS<br>Bell:          ON<br>Message:      ON<br>Drive \| Mode \|    Length  Size (Mb)<br>   0 \|  LBA \|  35916548    17537<br>     \|  CHS \|  16434495     8024<br>   1 \|  LBA \|  39102336    19092<br>     \|  CHS \|  16434495     8024<br>   2 \|  LBA \|  58633344    28629<br>     \|  CHS \|  16434495     8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-26 Joe PEB w 8A 90 1F<br>Case: SWB-26<br>Command set: Write<br>Date: Fri Aug 06 15:51:15 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-26 <03> 80 Allowed 0000 Off     1   WriteSectors<br>  1 SWB-26 <0B> 80 Allowed 0000 Off     1   WriteLong<br>  2 SWB-26 <43> 80 Allowed 0000 Off     1   ExtWrite<br>Results for SWB-26 category w on drive 80 No commands blocked (0 of 3)<br>  0 SWB-26 <03> 81 Blocked 0000 Off     0   WriteSectors<br>  1 SWB-26 <0B> 81 Blocked 0000 Off     0   WriteLong<br>  2 SWB-26 <43> 81 Blocked 0000 Off     0   ExtWrite<br>Results for SWB-26 category w on drive 81 All commands blocked (3 of 3)<br>  0 SWB-26 <03> 82 Allowed 0000 Off     1   WriteSectors<br>  1 SWB-26 <0B> 82 Allowed 0000 Off     1   WriteLong<br>  2 SWB-26 <43> 82 Allowed 0000 Off     1   ExtWrite<br>Results for SWB-26 category w on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 3 blocked, 6 not blocked |

**Case SWB-26 PDBlock Version 2.10**

|  |  |  |  |
|---|---|---|---|
| | ***** Signal Log *****<br>SIGNAL: y | | |
| Results: | **Assertion** | **Expected Results** | **Actual Results** |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-10 | 3 Commands return success | 3 Commands return success |
| | AO-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-26 Expected results achieved | | |

**Case SWB-27 PDBlock Version 2.10**

| | |
|---|---|
| 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.<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: | Fri Aug 06 16:02:20 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 2 /fail<br>A:\test-hdl SWB-27 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-27 Joe PEB<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 (08/06/04 at 16:01:51) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length  Size (Mb)<br>    0 \| LBA \|   35916548     17537<br>      \| CHS \|   16434495      8024<br>    1 \| LBA \|   39102336     19092<br>      \| CHS \|   16434495      8024 |

**Case SWB-27 PDBlock Version 2.10**

```
                    2 |  LBA |   58633344        28629
                      |  CHS |   16434495         8024
***** Test Harness Log *****
CMD: A:\TEST-HDL.EXE SWB-27 Joe PEB w 8A 90 1F
Case: SWB-27
Command set: Write
Date: Fri Aug 06 16:02:20 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: Joe
Number of drives 3, Drives: 8A 90 1F
     Case   Cmd Drv Action  Stat Cry Count Cmd Name
  0 SWB-27 <03> 80 Allowed 0000 Off     1  WriteSectors
  1 SWB-27 <0B> 80 Allowed 0000 Off     1  WriteLong
  2 SWB-27 <43> 80 Allowed 0000 Off     1  ExtWrite
Results for SWB-27 category w on drive 80 No commands blocked (0 of 3)
  0 SWB-27 <03> 81 Allowed 0000 Off     1  WriteSectors
  1 SWB-27 <0B> 81 Allowed 0000 Off     1  WriteLong
  2 SWB-27 <43> 81 Allowed 0000 Off     1  ExtWrite
Results for SWB-27 category w on drive 81 No commands blocked (0 of 3)
  0 SWB-27 <03> 82 Blocked 0300 On      0  WriteSectors
  1 SWB-27 <0B> 82 Blocked 0300 On      0  WriteLong
  2 SWB-27 <43> 82 Blocked 0300 On      0  ExtWrite
Results for SWB-27 category w on drive 82 All commands blocked (3 of 3)
Summary: 9 sent, 3 blocked, 6 not blocked


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

| | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| Results: | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-11 | 3 Commands return fail | 3 Commands return fail |
| | AO-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-27 Expected results achieved | | |

**Case SWB-28 PDBlock Version 2.10**

| | |
|---|---|
| Case summary: | SWB-28 Install three drives, configure return code to success, protect with pattern UPP, execute write commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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: | Fri Aug 06 16:12:31 2004 |

| Case SWB-28 PDBlock Version 2.10 | |
|---|---|
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 12<br>A:\test-hdl SWB-28 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-28 Joe PEB<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 (08/06/04 at 16:12:02) Going . . .   TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,2<br>Return Code:       SUCCESS<br>Bell:              ON<br>Message:           ON<br>Drive \| Mode \|      Length  Size (Mb)<br>   0 \|  LBA \|    35916548     17537<br>     \|  CHS \|    16434495      8024<br>   1 \|  LBA \|    39102336     19092<br>     \|  CHS \|    16434495      8024<br>   2 \|  LBA \|    58633344     28629<br>     \|  CHS \|    16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-28 Joe PEB w 8A 90 1F<br>Case: SWB-28<br>Command set: Write<br>Date: Fri Aug 06 16:12:31 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br> 0 SWB-28 <03> 80 Allowed 0000 Off     1  WriteSectors<br> 1 SWB-28 <0B> 80 Allowed 0000 Off     1  WriteLong<br> 2 SWB-28 <43> 80 Allowed 0000 Off     1  ExtWrite<br>Results for SWB-28 category w on drive 80 No commands blocked (0 of 3)<br> 0 SWB-28 <03> 81 Blocked 0000 Off     0  WriteSectors<br> 1 SWB-28 <0B> 81 Blocked 0000 Off     0  WriteLong<br> 2 SWB-28 <43> 81 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-28 category w on drive 81 All commands blocked (3 of 3)<br> 0 SWB-28 <03> 82 Blocked 0000 Off     0  WriteSectors<br> 1 SWB-28 <0B> 82 Blocked 0000 Off     0  WriteLong<br> 2 SWB-28 <43> 82 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-28 category w on drive 82 All commands blocked (3 of 3)<br>Summary: 9 sent, 6 blocked, 3 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-10 | 6 Commands return success | 6 Commands return success |
| | AO-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AO-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |

| Case SWB-28 PDBlock Version 2.10 | | | |
|---|---|---|---|
| | 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 achieved | | |

| Case SWB-29 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-29 Install three drives, configure return code to failure, protect with pattern PUP, execute write commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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: | Fri Aug 06 16:26:12 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 02 /fail<br>A:\test-hdl SWB-29 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-29 Joe PEB<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 (08/06/04 at 16:25:42) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,2<br>Return Code:     FAILURE<br>Bell:            ON<br>Message:         ON<br>Drive \| Mode \|    Length  Size (Mb)<br>   0 \|  LBA  \|   35916548      17537<br>     \|  CHS  \|   16434495       8024<br>   1 \|  LBA  \|   39102336      19092<br>     \|  CHS  \|   16434495       8024<br>   2 \|  LBA  \|   58633344      28629<br>     \|  CHS  \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-29 Joe PEB w 8A 90 1F<br>Case: SWB-29<br>Command set: Write<br>Date: Fri Aug 06 16:26:12 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: Joe |

| Case SWB-29 PDBlock Version 2.10 | |
|---|---|
| | Number of drives 3, Drives: 8A 90 1F |
| |      Case  Cmd Drv Action  Stat Cry Count Cmd Name |
| |  0 SWB-29 <03> 80 Blocked 0300 On     0   WriteSectors |
| |  1 SWB-29 <0B> 80 Blocked 0300 On     0   WriteLong |
| |  2 SWB-29 <43> 80 Blocked 0300 On     0   ExtWrite |
| | Results for SWB-29 category w on drive 80 All commands blocked (3 of 3) |
| |  0 SWB-29 <03> 81 Allowed 0000 Off    1   WriteSectors |
| |  1 SWB-29 <0B> 81 Allowed 0000 Off    1   WriteLong |
| |  2 SWB-29 <43> 81 Allowed 0000 Off    1   ExtWrite |
| | Results for SWB-29 category w on drive 81 No commands blocked (0 of 3) |
| |  0 SWB-29 <03> 82 Blocked 0300 On     0   WriteSectors |
| |  1 SWB-29 <0B> 82 Blocked 0300 On     0   WriteLong |
| |  2 SWB-29 <43> 82 Blocked 0300 On     0   ExtWrite |
| | Results for SWB-29 category w on drive 82 All commands blocked (3 of 3) |
| | Summary: 9 sent, 6 blocked, 3 not blocked |
| | |
| | ***** Signal Log ***** |
| | SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-11 | 6 Commands return fail | 6 Commands return fail |
| | AO-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AO-01 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-10 | Signal observed | Signal observed |

| Analysis: | SWB-29 Expected results achieved |
|---|---|


| Case SWB-30 PDBlock Version 2.10 | |
|---|---|
| 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: | Fri Aug 06 16:34:22 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 01<br>A:\test-hdl SWB-30 Joe PEB w 8A 90 1F<br>A:\sig-log SWB-30 Joe PEB<br>Shutdown Test PC |
| Log File | ***** Monitor Execution ***** |

```
Case SWB-30 PDBlock Version 2.10
```

| | |
|---|---|
| Highlights: | 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 (08/06/04 at 16:33:53) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   35916548      17537<br>      \|  CHS \|   16434495       8024<br>    1 \|  LBA \|   39102336      19092<br>      \|  CHS \|   16434495       8024<br>    2 \|  LBA \|   58633344      28629<br>      \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-30 Joe PEB w 8A 90 1F<br>Case: SWB-30<br>Command set: Write<br>Date: Fri Aug 06 16:34:22 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>      Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-30 <03> 80 Blocked 0000 Off      0  WriteSectors<br>  1 SWB-30 <0B> 80 Blocked 0000 Off      0  WriteLong<br>  2 SWB-30 <43> 80 Blocked 0000 Off      0  ExtWrite<br>Results for SWB-30 category w on drive 80 All commands blocked (3 of 3)<br>  0 SWB-30 <03> 81 Blocked 0000 Off      0  WriteSectors<br>  1 SWB-30 <0B> 81 Blocked 0000 Off      0  WriteLong<br>  2 SWB-30 <43> 81 Blocked 0000 Off      0  ExtWrite<br>Results for SWB-30 category w on drive 81 All commands blocked (3 of 3)<br>  0 SWB-30 <03> 82 Allowed 0000 Off      1  WriteSectors<br>  1 SWB-30 <0B> 82 Allowed 0000 Off      1  WriteLong<br>  2 SWB-30 <43> 82 Allowed 0000 Off      1  ExtWrite<br>Results for SWB-30 category w on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 6 blocked, 3 not blocked<br><br><br><br>***** Signal Log *****<br>SIGNAL: y |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-10 | 6 Commands return success | 6 Commands return success |
| | AO-01 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AO-01 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | Signal observed | Signal observed |

| | |
|---|---|
| Analysis: | SWB-30 Expected results achieved |

```
Case SWB-31 PDBlock Version 2.10
```

| | |
|---|---|
| Case summary: | SWB-31 Install three drives, configure return code to failure, protect<br>with pattern PUU, execute read commands. |
| Assertions<br>Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message<br>      indicating that the tool is active.<br>SWB-AM-08. If the tool is executed then the tool shall issue a message<br>      indicating all drives accessible by the covered interfaces.<br>SWB-AM-09. If the tool is executed then the tool shall issue a message |

| Case SWB-31 PDBlock Version 2.10 | |
|---|---|
| | 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. |
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 16:38:37 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 0 /fail<br>A:\test-hdl SWB-31 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-31 Joe PEB<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 (08/06/04 at 16:38:08) Going . . .   TSR<br>\*\*\*\*\* Install PDB Log \*\*\*\*\*<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0<br>Return Code:       FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive │ Mode │     Length  Size (Mb)<br>    0 │  LBA │   35916548      17537<br>      │  CHS │   16434495       8024<br>    1 │  LBA │   39102336      19092<br>      │  CHS │   16434495       8024<br>    2 │  LBA │   58633344      28629<br>      │  CHS │   16434495       8024<br>\*\*\*\*\* Test Harness Log \*\*\*\*\*<br>CMD: A:\TEST-HDL.EXE SWB-31 Joe PEB r 8A 90 1F<br>Case: SWB-31<br>Command set: Read<br>Date: Fri Aug 06 16:38:37 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-31 <02> 80 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-31 <0A> 80 Allowed 0000 Off     1  ReadLong<br>  2 SWB-31 <42> 80 Allowed 0000 Off     1  ExtRead<br>Results for SWB-31 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-31 <02> 81 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-31 <0A> 81 Allowed 0000 Off     1  ReadLong<br>  2 SWB-31 <42> 81 Allowed 0000 Off     1  ExtRead<br>Results for SWB-31 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-31 <02> 82 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-31 <0A> 82 Allowed 0000 Off     1  ReadLong<br>  2 SWB-31 <42> 82 Allowed 0000 Off     1  ExtRead |

**Case SWB-31 PDBlock Version 2.10**

| | |
|---|---|
| | Results for SWB-31 category r on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 0 blocked, 9 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-11 | 0 Commands return fail | 0 Commands return fail |
| | AO-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-31 Expected results achieved |
|---|---|


**Case SWB-32 PDBlock Version 2.10**

| | |
|---|---|
| Case summary: | SWB-32 Install three drives, configure return code to success, protect with pattern UPU, 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: | Fri Aug 06 16:44:27 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 1<br>A:\test-hdl SWB-32 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-32 Joe PEB<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 (08/06/04 at 16:43:58) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   35916548      17537<br>      \|  CHS \|   16434495       8024 |

```
Case SWB-32 PDBlock Version 2.10
                       1 | LBA |   39102336     19092
                         | CHS |   16434495      8024
                       2 | LBA |   58633344     28629
                         | CHS |   16434495      8024
              ***** Test Harness Log *****
              CMD: A:\TEST-HDL.EXE SWB-32 Joe PEB r 8A 90 1F
              Case: SWB-32
              Command set: Read
              Date: Fri Aug 06 16:44:27 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: Joe
              Number of drives 3, Drives: 8A 90 1F
                   Case  Cmd Drv Action  Stat Cry Count Cmd Name
                0 SWB-32 <02> 80 Allowed 0000 Off     1  ReadSectors
                1 SWB-32 <0A> 80 Allowed 0000 Off     1  ReadLong
                2 SWB-32 <42> 80 Allowed 0000 Off     1  ExtRead
              Results for SWB-32 category r on drive 80 No commands blocked (0 of 3)
                0 SWB-32 <02> 81 Allowed 0000 Off     1  ReadSectors
                1 SWB-32 <0A> 81 Allowed 0000 Off     1  ReadLong
                2 SWB-32 <42> 81 Allowed 0000 Off     1  ExtRead
              Results for SWB-32 category r on drive 81 No commands blocked (0 of 3)
                0 SWB-32 <02> 82 Allowed 0000 Off     1  ReadSectors
                1 SWB-32 <0A> 82 Allowed 0000 Off     1  ReadLong
                2 SWB-32 <42> 82 Allowed 0000 Off     1  ExtRead
              Results for SWB-32 category r on drive 82 No commands blocked (0 of 3)
              Summary: 9 sent, 0 blocked, 9 not blocked



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

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-10 | 0 Commands return success | 0 Commands return success |
| | AO-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | No signal observed | No signal observed |
| Analysis: | SWB-32 Expected results achieved | | |

| Case SWB-33 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-33 Install three drives, configure return code to failure, protect with pattern UUP, execute read commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active. |
| | SWB-AM-08. If the tool is executed then the tool shall issue a message indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-11. If the tool is configured to return fail on blocked commands and the tool blocks a command then the return code shall indicate unsuccessful command execution. |
| | SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | SWB-AO-10. If the tool blocks a command then the tool shall issue either an audio or a visual signal. |

| Case SWB-33 PDBlock Version 2.10 | |
|---|---|
| Tester Name: | PEB |
| Test Date: | Fri Aug 06 16:48:41 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 2 /fail<br>A:\test-hdl SWB-33 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-33 Joe PEB<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 (08/06/04 at 16:48:12) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|      Length  Size (Mb)<br>    0 \|  LBA \|    35916548      17537<br>      \|  CHS \|    16434495       8024<br>    1 \|  LBA \|    39102336      19092<br>      \|  CHS \|    16434495       8024<br>    2 \|  LBA \|    58633344      28629<br>      \|  CHS \|    16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-33 Joe PEB r 8A 90 1F<br>Case: SWB-33<br>Command set: Read<br>Date: Fri Aug 06 16:48:41 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-33 <02> 80 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-33 <0A> 80 Allowed 0000 Off     1  ReadLong<br>  2 SWB-33 <42> 80 Allowed 0000 Off     1  ExtRead<br>Results for SWB-33 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-33 <02> 81 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-33 <0A> 81 Allowed 0000 Off     1  ReadLong<br>  2 SWB-33 <42> 81 Allowed 0000 Off     1  ExtRead<br>Results for SWB-33 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-33 <02> 82 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-33 <0A> 82 Allowed 0000 Off     1  ReadLong<br>  2 SWB-33 <42> 82 Allowed 0000 Off     1  ExtRead<br>Results for SWB-33 category r on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 0 blocked, 9 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-11 | 0 Commands return fail | 0 Commands return fail |

| Case SWB-33 PDBlock Version 2.10 | | | |
|---|---|---|---|
| | 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 achieved | | |


| Case SWB-34 PDBlock Version 2.10 | |
|---|---|
| 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: | Fri Aug 06 16:54:28 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 12<br>A:\test-hdl SWB-34 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-34 Joe PEB<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 (08/06/04 at 16:53:59) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 1,2<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \|  35916548     17537<br>     \|  CHS \|  16434495      8024<br>   1 \|  LBA \|  39102336     19092<br>     \|  CHS \|  16434495      8024<br>   2 \|  LBA \|  58633344     28629<br>     \|  CHS \|  16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-34 Joe PEB r 8A 90 1F<br>Case: SWB-34<br>Command set: Read<br>Date: Fri Aug 06 16:54:28 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-34 PDBlock Version 2.10 | |
|---|---|
| | Operator: PEB<br>Host: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-34 <02> 80 Allowed 0000 Off    1   ReadSectors<br>  1 SWB-34 <0A> 80 Allowed 0000 Off    1   ReadLong<br>  2 SWB-34 <42> 80 Allowed 0000 Off    1   ExtRead<br>Results for SWB-34 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-34 <02> 81 Allowed 0000 Off    1   ReadSectors<br>  1 SWB-34 <0A> 81 Allowed 0000 Off    1   ReadLong<br>  2 SWB-34 <42> 81 Allowed 0000 Off    1   ExtRead<br>Results for SWB-34 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-34 <02> 82 Allowed 0000 Off    1   ReadSectors<br>  1 SWB-34 <0A> 82 Allowed 0000 Off    1   ReadLong<br>  2 SWB-34 <42> 82 Allowed 0000 Off    1   ExtRead<br>Results for SWB-34 category r on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 0 blocked, 9 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-10 | 0 Commands return success | 0 Commands return success |
| | AO-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-04 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-07 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-10 | No signal observed | No signal observed |

| Analysis: | SWB-34 Expected results achieved |
|---|---|

| Case SWB-35 PDBlock Version 2.10 | |
|---|---|
| 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.<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-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: | Fri Aug 06 16:59:02 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 02 /fail<br>A:\test-hdl SWB-35 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-35 Joe PEB |

| Case SWB-35 PDBlock Version 2.10 | |
|---|---|
| | 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 (08/06/04 at 16:58:32) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,2<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   35916548     17537<br>      \|  CHS \|   16434495      8024<br>    1 \|  LBA \|   39102336     19092<br>      \|  CHS \|   16434495      8024<br>    2 \|  LBA \|   58633344     28629<br>      \|  CHS \|   16434495      8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-35 Joe PEB r 8A 90 1F<br>Case: SWB-35<br>Command set: Read<br>Date: Fri Aug 06 16:59:02 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br>     Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-35 <02> 80 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-35 <0A> 80 Allowed 0000 Off     1  ReadLong<br>  2 SWB-35 <42> 80 Allowed 0000 Off     1  ExtRead<br>Results for SWB-35 category r on drive 80 No commands blocked (0 of 3)<br>  0 SWB-35 <02> 81 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-35 <0A> 81 Allowed 0000 Off     1  ReadLong<br>  2 SWB-35 <42> 81 Allowed 0000 Off     1  ExtRead<br>Results for SWB-35 category r on drive 81 No commands blocked (0 of 3)<br>  0 SWB-35 <02> 82 Allowed 0000 Off     1  ReadSectors<br>  1 SWB-35 <0A> 82 Allowed 0000 Off     1  ReadLong<br>  2 SWB-35 <42> 82 Allowed 0000 Off     1  ExtRead<br>Results for SWB-35 category r on drive 82 No commands blocked (0 of 3)<br>Summary: 9 sent, 0 blocked, 9 not blocked<br><br><br>***** Signal Log *****<br>SIGNAL: n |
| Results: | |

| Assertion | Expected Results | Actual Results |
|---|---|---|
| AM-07 | Tool active message | Tool active message |
| AM-08 | 3 drives identified | 3 drives identified |
| AM-09 | Drive 80 is protected | Drive 80 is protected |
| AM-09 | Drive 81 is unprotected | Drive 81 is unprotected |
| AM-09 | Drive 82 is protected | Drive 82 is protected |
| AM-11 | 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 achieved |
|---|---|

| Case SWB-36 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-36 Install three drives, configure return code to success, protect with pattern PPU, 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 |

| Case SWB-36 PDBlock Version 2.10 | |
|---|---|
| | indicating all drives accessible by the covered interfaces. |
| | SWB-AM-09. If the tool is executed then the tool shall issue a message indicating the protection status of each drive attached to a covered interface. |
| | SWB-AM-10. If the tool is configured to return success on blocked commands and the tool blocks a command then the return code shall indicate successful command execution. |
| | SWB-AO-04. If a subset of all covered drives is specified for protection, then commands from the read category shall not be blocked for drives in the selected subset. |
| | SWB-AO-07. If a subset of all covered drives is specified for protection, then no commands from any category shall be blocked for drives not in the selected subset. |
| | 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: | Fri Aug 06 17:03:16 2004 |
| Test PC: | Joe |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 8A is a WDC WD200EB-00CSF0 with 39102336 sectors<br>Drive 81, label 90 is a WDC WD300BB-00CAA0 with 58633344 sectors<br>Drive 82, 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 01<br>A:\test-hdl SWB-36 Joe PEB r 8A 90 1F<br>A:\sig-log SWB-36 Joe PEB<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 (08/06/04 at 17:02:46) Going . . .   TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br><pre>Drive \| Mode \|     Length  Size (Mb)<br>    0 \|  LBA \|   35916548     17537<br>      \|  CHS \|   16434495      8024<br>    1 \|  LBA \|   39102336     19092<br>      \|  CHS \|   16434495      8024<br>    2 \|  LBA \|   58633344     28629<br>      \|  CHS \|   16434495      8024</pre>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-36 Joe PEB r 8A 90 1F<br>Case: SWB-36<br>Command set: Read<br>Date: Fri Aug 06 17:03:16 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: Joe<br>Number of drives 3, Drives: 8A 90 1F<br><pre>     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</pre>Results for SWB-36 category r on drive 80 No commands blocked (0 of 3)<br><pre>  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</pre>Results for SWB-36 category r on drive 81 No commands blocked (0 of 3)<br><pre>  0 SWB-36 <02> 82 Allowed 0000 Off      1  ReadSectors</pre> |

**Case SWB-36 PDBlock Version 2.10**

```
           1 SWB-36 <0A> 82 Allowed 0000 Off     1  ReadLong
           2 SWB-36 <42> 82 Allowed 0000 Off     1  ExtRead
    Results for SWB-36 category r on drive 82 No commands blocked (0 of 3)
    Summary: 9 sent, 0 blocked, 9 not blocked



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

| Results: | Assertion | Expected Results | Actual Results |
|---|---|---|---|
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 3 drives identified | 3 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected |
| | AM-10 | 0 Commands return success | 0 Commands return success |
| | AO-04 | No cmds to drive 80 blocked | No cmds to drive 80 blocked |
| | AO-04 | No cmds to drive 81 blocked | No cmds to drive 81 blocked |
| | AO-07 | No cmds to drive 82 blocked | No cmds to drive 82 blocked |
| | AO-10 | No signal observed | No signal observed |
| Analysis: | SWB-36 Expected results achieved | | |

**Case SWB-37 PDBlock Version 2.10**

| | |
|---|---|
| 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: | PEB |
| Test Date: | Tue Sep 07 10:23:02 2004 |
| Test PC: | Freddy |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\test-hdl SWB-37 Freddy PEB w 6F F5 E3 E4<br>A:\sig-log SWB-37 Freddy PEB<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 (09/07/04 at 10:21:17) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length   Size (Mb)<br>   0 \|  LBA  \|  120103200    58644<br>     \|  CHS  \|   16434495     8024<br>   1 \|  LBA  \|   40188960    19623<br>     \|  CHS  \|   16434495     8024 |

**Case SWB-37 PDBlock Version 2.10**

```
                  2 |  LBA  |   17938985        8759
                    |  CHS  |   16434495        8024
                  3 |  LBA  |   17938985        8759
                    |  CHS  |   16434495        8024
        ***** Test Harness Log *****
        CMD: A:\TEST-HDL.EXE SWB-37 Freddy PEB w 6F F5 E3 E4
        Case: SWB-37
        Command set: Write
        Date: Tue Sep 07 10:23:02 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: Freddy
        Number of drives 4, Drives: 6F F5 E3 E4
             Case  Cmd Drv Action  Stat Cry Count Cmd Name
          0 SWB-37 <03> 80 Blocked 0300 On     0  WriteSectors
          1 SWB-37 <0B> 80 Blocked 0300 On     0  WriteLong
          2 SWB-37 <43> 80 Blocked 0300 On     0  ExtWrite
        Results for SWB-37 category w on drive 80 All commands blocked (3 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 Blocked 0300 On     0  WriteSectors
          1 SWB-37 <0B> 82 Blocked 0300 On     0  WriteLong
          2 SWB-37 <43> 82 Blocked 0300 On     0  ExtWrite
        Results for SWB-37 category w on drive 82 All commands blocked (3 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, 12 blocked, 0 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 | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-11 | 12 Commands return fail | 12 Commands return fail |
| | AO-08 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AO-08 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AO-08 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AO-08 | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-37 Expected results achieved | | |


**Case SWB-38 PDBlock Version 2.10**

| 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.<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-08. If the tool is active during the operating system boot and |

| Case SWB-38 PDBlock Version 2.10 | |
|---|---|
| | 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: | PEB |
| Test Date: | Tue Sep 07 10:16:29 2004 |
| Test PC: | Freddy |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label 6F is a Maxtor 6Y060L0 with 120103200 sectors<br>Drive 81, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\test-hdl SWB-38 Freddy PEB w 6F F5 E3 E4<br>A:\sig-log SWB-38 Freddy PEB<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 (09/07/04 at 10:14:07) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: ALL<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|     Length  Size (Mb)<br>   0 \|  LBA \|  120103200      58644<br>     \|  CHS \|   16434495       8024<br>   1 \|  LBA \|   40188960      19623<br>     \|  CHS \|   16434495       8024<br>   2 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>   3 \|  LBA \|   17938985       8759<br>     \|  CHS \|   16434495       8024<br>***** Test Harness Log *****<br>CMD: A:\TEST-HDL.EXE SWB-38 Freddy PEB w 6F F5 E3 E4<br>Case: SWB-38<br>Command set: Write<br>Date: Tue Sep 07 10:16:29 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: Freddy<br>Number of drives 4, Drives: 6F F5 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name<br>  0 SWB-38 <03> 80 Blocked 0000 Off     0  WriteSectors<br>  1 SWB-38 <0B> 80 Blocked 0000 Off     0  WriteLong<br>  2 SWB-38 <43> 80 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-38 category w on drive 80 All commands blocked (3 of 3)<br>  0 SWB-38 <03> 81 Blocked 0000 Off     0  WriteSectors<br>  1 SWB-38 <0B> 81 Blocked 0000 Off     0  WriteLong<br>  2 SWB-38 <43> 81 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-38 category w on drive 81 All commands blocked (3 of 3)<br>  0 SWB-38 <03> 82 Blocked 0000 Off     0  WriteSectors<br>  1 SWB-38 <0B> 82 Blocked 0000 Off     0  WriteLong<br>  2 SWB-38 <43> 82 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-38 category w on drive 82 All commands blocked (3 of 3)<br>  0 SWB-38 <03> 83 Blocked 0000 Off     0  WriteSectors<br>  1 SWB-38 <0B> 83 Blocked 0000 Off     0  WriteLong<br>  2 SWB-38 <43> 83 Blocked 0000 Off     0  ExtWrite<br>Results for SWB-38 category w on drive 83 All commands blocked (3 of 3)<br>Summary: 12 sent, 12 blocked, 0 not blocked<br><br><br>***** Signal Log ***** |

| Case **SWB-38 PDBlock Version 2.10** | | | |
|---|---|---|---|
| | SIGNAL: y | | |
| Results: | **Assertion** | **Expected Results** | **Actual Results** |
| | AM-07 | Tool active message | Tool active message |
| | AM-08 | 4 drives identified | 4 drives identified |
| | AM-09 | Drive 80 is protected | Drive 80 is protected |
| | AM-09 | Drive 81 is protected | Drive 81 is protected |
| | AM-09 | Drive 82 is protected | Drive 82 is protected |
| | AM-09 | Drive 83 is protected | Drive 83 is protected |
| | AM-10 | 12 Commands return success | 12 Commands return success |
| | AO-08 | All cmds to drive 80 blocked | All cmds to drive 80 blocked |
| | AO-08 | All cmds to drive 81 blocked | All cmds to drive 81 blocked |
| | AO-08 | All cmds to drive 82 blocked | All cmds to drive 82 blocked |
| | AO-08 | All cmds to drive 83 blocked | All cmds to drive 83 blocked |
| | AO-10 | Signal observed | Signal observed |
| Analysis: | SWB-38 Expected results achieved | | |


| Case **SWB-39 PDBlock Version 2.10** | |
|---|---|
| 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: | PEB |
| Test Date: | Fri Aug 20 14:06:50 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 23 /fail<br>A:\test-hdl SWB-39 Max PEB w F5 F6 E3 E4<br>A:\sig-log SWB-39 Max PEB<br>A:\t-off SWB-39 Max PEB<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 Max PEB a F5 F6 E3 E4<br>A:\sig-log SWB-39 Max PEB<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 (08/20/04 at 14:04:43) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 2,3<br>Return Code:      FAILURE<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|    Length   Size (Mb)<br>    0 \|  LBA \|   40188960      19623<br>      \|  CHS \|   16434495       8024 |

```
                    1 │  LBA  │    40188960       19623
                      │  CHS  │    16434495        8024
                    2 │  LBA  │    17938985        8759
                      │  CHS  │    16434495        8024
                    3 │  LBA  │    17938985        8759
                      │  CHS  │    16434495        8024
        ***** Blocked Write Commands *****
        CMD: A:\TEST-HDL.EXE SWB-39 Max PEB w F5 F6 E3 E4
        Case: SWB-39
        Command set: Write
        Date: Fri Aug 20 14:05:11 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: Max
        Number of drives 4, Drives: F5 F6 E3 E4
             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 2.10: (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 Max PEB a F5 F6 E3 E4
        Case: SWB-39
        Command set: All
        Date: Fri Aug 20 14:06:50 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: Max
        Number of drives 4, Drives: F5 F6 E3 E4
        Warning: non-zero tally (3) for drive 80 (reboot to clear)
        Warning: non-zero tally (3) for drive 81 (reboot to clear)
             Case  Cmd Drv Action  Stat Cry Count Cmd Name
          0 SWB-39 <00> 80 Allowed 0000 Off     1  Reset
          1 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
```

```
Case SWB-39 PDBlock Version 2.10
                  Results for SWB-39 category c on drive 80 No commands blocked (0 of 5)
                    0 SWB-39 <00> 81 Allowed 0000 Off     1   Reset
                    1 SWB-39 <0C> 81 Allowed 0000 Off     1   SeekDrive
                    2 SWB-39 <0D> 81 Allowed 0000 Off     1   AltReset
                    3 SWB-39 <11> 81 Allowed 0000 Off     1   Recalibrate
                    4 SWB-39 <47> 81 Allowed 0000 Off     1   ExtendedSeek
                  Results for SWB-39 category c on drive 81 No commands blocked (0 of 5)
                    0 SWB-39 <00> 82 Allowed 0000 Off     1   Reset
                    1 SWB-39 <0C> 82 Allowed 0000 Off     1   SeekDrive
                    2 SWB-39 <0D> 82 Allowed 0000 Off     1   AltReset
                    3 SWB-39 <11> 82 Allowed 0000 Off     1   Recalibrate
                    4 SWB-39 <47> 82 Allowed 0000 Off     1   ExtendedSeek
                  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
```

```
Case SWB-39 PDBlock Version 2.10
                 Results for SWB-39 category r on drive 82 No commands blocked (0 of 3)
                   0 SWB-39 <02> 83 Allowed 0000 Off     1   ReadSectors
                   1 SWB-39 <0A> 83 Allowed 0000 Off     1   ReadLong
                   2 SWB-39 <42> 83 Allowed 0000 Off     1   ExtRead
                 Results for SWB-39 category r on drive 83 No commands blocked (0 of 3)
                 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

                      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 | 4 drives identified | |
| | AM-09 | Drive 80 is unprotected | Drive 80 is unprotected | |
| | AM-09 | Drive 81 is unprotected | Drive 81 is unprotected | |
| | AM-09 | Drive 82 is protected | Drive 82 is protected | |
| | AM-09 | Drive 83 is protected | Drive 83 is protected | |
| | AM-11 | 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: AO-09 | | | |

| Case SWB-40 PDBlock Version 2.10 | |
|---|---|
| Case summary: | SWB-40 Install all drives, configure return code to success, protect |

| Case SWB-40 PDBlock Version 2.10 | |
|---|---|
| | with pattern low, execute write commands, uninstall, execute all commands. |
| Assertions Tested: | SWB-AM-07. If the tool is executed then the tool shall issue a message indicating that the tool is active.<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-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: | PEB |
| Test Date: | Fri Aug 20 14:13:13 2004 |
| Test PC: | Max |
| Test Software: | SWBT 1.0 |
| Hard Drives Used: | Drive 80, label F5 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 81, label F6 is an IBM-DTLA-307020 with 40188960 sectors<br>Drive 82, label E3 is a QUANTUM ATLAS10K2-TY092J with 17938985 sectors<br>Drive 83, 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>A:\tally13<br>A:\pdblock 01<br>A:\test-hdl SWB-40 Max PEB w F5 F6 E3 E4<br>A:\sig-log SWB-40 Max PEB<br>A:\t-off SWB-40 Max PEB<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-40 Max PEB a F5 F6 E3 E4<br>A:\sig-log SWB-40 Max PEB<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 (08/20/04 at 14:11:59) Going . . .  TSR<br>***** Install PDB Log *****<br>PDBlock Version 2.10: (P)hysical (D)isk Write (BLOCK)er<br>Drives Protected: 0,1<br>Return Code:      SUCCESS<br>Bell:             ON<br>Message:          ON<br>Drive \| Mode \|      Length  Size (Mb)<br>   0 \|  LBA \|   40188960      19623<br>      \|  CHS \|   16434495       8024<br>   1 \|  LBA \|   40188960      19623<br>      \|  CHS \|   16434495       8024<br>   2 \|  LBA \|   17938985       8759<br>      \|  CHS \|   16434495       8024<br>   3 \|  LBA \|   17938985       8759<br>      \|  CHS \|   16434495       8024<br>***** Blocked Write Commands *****<br>CMD: A:\TEST-HDL.EXE SWB-40 Max PEB w F5 F6 E3 E4<br>Case: SWB-40<br>Command set: Write<br>Date: Fri Aug 20 14:12:28 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: Max<br>Number of drives 4, Drives: F5 F6 E3 E4<br>    Case  Cmd Drv Action  Stat Cry Count Cmd Name |

```
      0 SWB-40 <03> 80 Blocked 0000 Off     0   WriteSectors
      1 SWB-40 <0B> 80 Blocked 0000 Off     0   WriteLong
      2 SWB-40 <43> 80 Blocked 0000 Off     0   ExtWrite
   Results for SWB-40 category w on drive 80 All commands blocked (3 of 3)
      0 SWB-40 <03> 81 Blocked 0000 Off     0   WriteSectors
      1 SWB-40 <0B> 81 Blocked 0000 Off     0   WriteLong
      2 SWB-40 <43> 81 Blocked 0000 Off     0   ExtWrite
   Results for SWB-40 category w on drive 81 All commands blocked (3 of 3)
      0 SWB-40 <03> 82 Allowed 0000 Off     1   WriteSectors
      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 2.10: (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 Max PEB a F5 F6 E3 E4
   Case: SWB-40
   Command set: All
   Date: Fri Aug 20 14:13:13 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: PEB
   Host: Max
   Number of drives 4, Drives: F5 F6 E3 E4
   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)
```

```
Case SWB-40 PDBlock Version 2.10
                  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
                    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)
```

| Case SWB-40 PDBlock Version 2.10 |
|---|

```
     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
     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

             ...
```

```
Case SWB-40 PDBlock Version 2.10
                   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
                             ...

                             misc commands 17-FD results omitted

                             see log files for full results

                             ...

                   226 SWB-40 <FE> 82 Allowed 0000 Off      1 Undefined
                   227 SWB-40 <FF> 82 Allowed 0000 Off      1 Undefined
                   Results for SWB-40 category m on drive 82 Not all commands blocked (1
                   of 228)
                     0 SWB-40 <16> 83 Allowed 0000 Off      1 Undefined
                             ...

                             misc commands 17-FD results omitted

                             see log files for full results

                             ...

                   226 SWB-40 <FE> 83 Allowed 0000 Off      1 Undefined
                   227 SWB-40 <FF> 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
```

| Results: | Assertion | Expected Results | Actual Results | |
|---|---|---|---|---|
| | AM-07 | Tool active message | Tool active message | |
| | AM-08 | 4 drives identified | 4 drives identified | |
| | AM-09 | Drive 80 is protected | Drive 80 is protected | |
| | AM-09 | Drive 81 is protected | Drive 81 is protected | |
| | AM-09 | Drive 82 is unprotected | Drive 82 is unprotected | |
| | AM-09 | Drive 83 is unprotected | Drive 83 is unprotected | |
| | AM-10 | 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-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.