

	NIJ
Special	REPORT
Test Results for Hardware Write Block Device: Wiebe Powered Forensic ComboDock (USB Interface)	eTech Bus

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Glenn R. Schmitt

Acting Director

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Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the research and development organization of the U.S. Department of Justice, and the National Institute of Standards and Technology's (NIST's) Office of Law Enforcement Standards (OLES) and Information Technology Laboratory (ITL). CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, Internal Revenue Service Criminal Investigation's Electronic Crimes Program, and the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement and U.S. Secret Service. The objective of the CFTT program 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. This approach to testing computer forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods are posted on the CFTT Web site (http://www.cftt.nist.gov/) for review and comment by the computer forensics community.

This document reports the results from testing the WiebeTech Bus Powered Forensic ComboDock (USB Interface) against the *Hardware Write Blocker (HWB) Assertions and Test Plan Version 1.0*, available at the CFTT Web site (http://www.cftt.nist.gov/HWB-ATP-19.pdf). This specification identifies the following top-level tool requirements:

- A hardware write block (HWB) device shall not transmit a command to a protected storage device that modifies the data on the storage device.
- An HWB device shall return the data requested by a read operation.
- An HWB device shall return without modification any access-significant information requested from the drive.
- Any error condition reported by the storage device to the HWB device shall be reported to the host.

Test results from other software packages and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web page, http://www.ojp.usdoj.gov/nij/topics/ecrime/cftt.htm.

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Test Results for Hardware Write Block Devices

Device Tested: WiebeTech Bus Powered Forensic ComboDock (USB Interface)

Model: FCD–BP Serial No: 62601000226

Host to Blocker Interface: USB Blocker to Drive Interface: IDE

Supplier: WiebeTech LLC

Address: WiebeTech LLC

8200 East 34th Street North #1404

Wichita, KS 67226 866–744–8722

http://www.wiebetech.com/

1 Results Summary by Requirements

An HWB device shall not transmit a command to a protected storage device that modifies the data on the storage device.

For all test cases run, the device always blocked any commands that would have changed user or operating system data stored on a protected drive.

An HWB device shall return the data requested by a read operation.

For all test cases run, the device always allowed commands to read the protected drive.

An HWB device shall return without modification any access-significant information requested from the drive.

For all test cases run, the device always returned access-significant information from the protected drive without modification.

Any error condition reported by the storage device to the HWB device shall be reported to the host.

For all test cases run, the device always returned error codes from the protected drive without modification.

2 Test Case Selection

Since a protocol analyzer was not available for the interface between the blocker and the protected drive, the following test cases were appropriate: HWB-02, HWB-04, HWB-05, HWB-07, HWB-08, and HWB-09.

For test case HWB-04, two variations were selected: file (attempt to use operating system commands to create and delete file system objects (files and directories) from a protected drive) and image (use an imaging tool to attempt to write to a protected drive).

For test case HWB–07, one variation was selected: ix (use a stand-alone imaging tool (IXimager) to read from a protected drive).

3 Observations

For test case HWB-04-file, the protected drive was set up with two partitions, FAT32 and NTFS. The NTFS partition was not visible or accessable to Windows XP. It was therefore not possible to attempt to create or delete files and directories from the NTFS partition. In addition, the operating system on the test computer (Chan) stopped responding during the test after an attempt to modify the FAT32 partition of the protected drive. Disconnecting the USB cable restored operation. In no case was the protected drive modified.

4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the hardware (test computers and hard drives) available for testing.

4.1 Test Computers

Three test computers were used: **Chan, JohnStone** and **JohnSteed**. **Chan** has the following configuration:

Asus P4P8T Intel® (865G/ICH 5 chipsets, FSB 800/533/400MHz) Motherboard AMIBIOS© American Megatrends Asus P4P8T–SP ACPI BIOS revision 1003 Intel® Pentium® 4 CPU Plextor DVDR PX–716A, ATAPI CD/DVD–ROM drive WDC WD800JB–00JJC0, 80 GB ATA disk drive Five IEEE 1394 ports
Six USB ports
Memory Card reader

JohnStone and **JohnSteed** have the following configuration:

FIC IC-VL67 (865G; S478; 800MHz) Intel® Desktop Motherboard Phoenix-Award BIOS version v6.00PG
Intel® Pentium® 4 CPU
Plextor DVDR PX-716A, ATAPI CD/DVD-ROM drive
WDC WD800JB-00JJC0, 80 GB ATA disk drive
1.44MB floppy drive
Three IEEE 1394 ports
Four USB ports

4.2 Protocol Analyzer

A Data Transit bus protocol analyzer (Bus Doctor Rx) was used to monitor and record commands sent from the host to the write blocker. Two identical protocol analyzers were available for monitoring commands.

One of two Dell laptop computers (either Chip or Dale) was connected to each protocol analyzer to record commands observed by the protocol analyzer.

4.3 Hard Disk Drives

The hard disk drives used in testing are described below.

```
Drive label: 8B
Partition table Drive /dev/sda
00011/254/63 (max cyl/hd values)
00012/255/63 (number of cyl/hd)
201600 total number of sectors
Non-IDE disk
Model (0EB-00CSF0 ) serial # (WD-WTAAV4044563)
N Start LBA Length Start C/H/S End C/H/S boot Partition type
Drive label: A8
Partition table Drive /dev/sda
00011/254/63 (max cyl/hd values)
00012/255/63 (number of cyl/hd)
201600 total number of sectors
Non-IDE disk
Model (OBB-00AUA1 ) serial # (WD-WMA6Y3401179)
N Start LBA Length Start C/H/S End C/H/S boot Partition type
Drive label: BE
Partition table Drive /dev/sda
24320/254/63 (max cyl/hd values)
24321/255/63 (number of cyl/hd)
390721968 total number of sectors
Non-IDE disk
Model (00JB-00KFA0 ) serial # ( WD-WMAMR10220)
N Start LBA Length Start C/H/S End C/H/S boot Partition type
7 S 000000063 004096512 1023/001/01 1023/254/63 06 Fat16
```

P primary partition (1–4) S secondary (sub) partition X primary extended partition (1–4) x secondary extended partition

4.4 Support Software

The software in the following table was used to send commands to the protected drive. One widely used imaging tool, IXimager, was used to generate disk activity (reads and writes) consistent with a realistic scenario of an accidental modification of an unprotected hard drive during a forensic examination. This does not imply an endorsement of the imaging tool.

Program	Description	
sendSCSI	A tool to send SCSI commands wrapped in the USB or IEEE 1394 (FireWire)	
	protocols to a drive.	
FS-TST	Software from the FS–TST tools was used to generate errors from the hard drive	
	by trying to read beyond the end of the drive. The FS–TST software was also used	
	to setup the hard drives and print partition tables and drive size.	
IXimager	An imaging tool (ILook IXimager version 1.0, August 25, 2004) for test case 04-	
	img.	

5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the device with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining the Blocker Input and Blocker Output boxes of the test report summary.

5.1 Test Results Report Key

A summary of the actual test results is presented in this report. The following table presents a description of each section of the test report summary.

Heading	Description	
First Line	Test case ID; name, model, and interface of device tested.	
Case Summary	Test case summary from <i>Hardware Write Blocker (HWB)</i>	
	Assertions and Test Plan Version 1.0.	
Assertions Tested	The test assertions applicable to the test case, selected from	
	Hardware Write Blocker (HWB) Assertions and Test Plan	
	Version 1.0.	

Heading	Description
Tester Name	Name or initials of person executing test procedure.
Test Date	Time and date that test was started and completed.
Test Configuration	Identification of the following:
	1. Host computer for executing the test case.
	2. Laptop attached to each protocol analyzer.
	3. Protocol analyzers monitoring each interface.
	4. Interface between host and blocker.
	5. Interface between blocker and protected drive.
	6. Execution environment for tool sending commands from the host.
Hard Drives Used	Description of the protected hard drive.
Blocker Input	For test case HWB-02, a list of commands sent is provided.
	For test cases HWB–02 and HWB–04, an SHA1 value for the entire drive is provided for reference.
	For test case HWB–05, a string of known data from a given location is provided for reference.
Blocker Output	For test cases HWB-02, HWB-04, and HWB-07, an SHA1
1	value computed after commands are sent to the protected drive is given for comparison to the reference SHA1 value.
	For test case HWB–05, a string read from a given location is provided for comparison to known data.
	For test case HWB–08, the number of sectors determined for the protected drive and the partition table are provided.
	For test case HWB–09, any error return obtained by trying to
	access a nonexistent sector of the drive is provided.
Results	Expected and actual results for each assertion tested.
Analysis	Whether or not the expected results were achieved.

5.2 Test Details

Test Case HWB-0	2 Variation hwb-02 WiebeTech Bus Powered ComboDock (USB)
Case Summary:	HWB-02 Identify modifying commands blocked by the HWB.
Assertions	HWB-AM-01 The HWB shall not transmit any modifying
Tested:	category operation to the protected storage device.
Tester Name:	Brl
Test Date:	run start Tue Jan 10 17:18:51 2006
	run finish Wed Jan 11 11:25:45 2006
Test	HOST: JohnSteed

Test Case HWB-02 Variation hwb-02 WiebeTech Bus Powered ComboDock (USB)		
Configuration:	HostToBlocker Monitor: Chip	
	HostToBlocker PA: AA00155	
	HostToBlocker Interface: USB	
	BlockerToDrive Monitor: none	
	BlockerToDrive PA: none	
	BlockerToDrive Interface: IDE	
	Run Environment: Linux	
Drives:	Protected drive: BE	
	BE is a WDC WD2000JB-00KFA0 wit	th 390721968 sectors (200
	GB)	
Blocker Input:	SHA of BE is 8F470B10EA37017154	13380CA0CD55B406C6359BD -
	Commands Sent to Blocker	
	42 READ(10)	
	10 REQUEST_SENSE	
	1 SEND(6)	
	4 WRITE	
	1 WRITE(10)	
	1 WRITE(12)	
	1 WRITE/VERIFY	
Blocker	CMD: /mnt/floppy/diskhash.csh F	HWB-02 JohnSteed brl
Output:	/dev/sda BE -after	
	8F470B10EA370171543380CA0CD55B4	106C6359BD -
Results:	Assertion & Expected Result	Actual Result
	AM-01 Modifying commands	Modifying commands
	blocked	blocked
		-
Analysis:	Expected results achieved	

Test Case HWB-04 Variation hwb-04-file WiebeTech Bus Powered ComboDock (USB)		
Case Summary:	HWB-04 Attempt to modify a protected drive with forensic tools.	
Assertions	HWB-AM-01 The HWB shall not transmit any modifying	
Tested:	category operation to the protected storage device.	
Tester Name:	JRL	
Test Date:	run start Mon Feb 6 09:17:45 2006	
	run finish Mon Feb 6 09:54:40 2006	
Test	HOST: Chan	
Configuration:	HostToBlocker Monitor: none	
	HostToBlocker PA: none	
	HostToBlocker Interface: USB	
	BlockerToDrive Monitor: none	
	BlockerToDrive PA: none	
	BlockerToDrive Interface: IDE	
	Run Environment: WXP	
Drives:	Protected drive: A8	
	A8 is a WDC WD200BB-00AUA1 configured to report 201600	
	sectors (103 MB)	
Blocker Input:	SHA of A8 is 92577F7B0A265FC883BBDFFBFB8E4E58E959B4D1 -	
	Commands are sent to blocker by OS operations:	
	@echo off	

Test Case HWB-04 Variation hwb-04-file WiebeTech Bus Powered ComboDock (USB)		
	REM %1 is the directory where created REM Redirect the output to a l REM hwb-mod . X: > dir-setup.t echo "mod: %1" mkdir %1\delta rmdir %1\gamma copy %1\beta\zeta.txt %1\alpha copy %1\beta\cope a.txt %1\delt del %1\beta\zeta.txt dir %1 /b /s	ogfile xt
Blocker	Results for FAT partition:	
Output:	A:\runs\we-bp-cd-usb\hwb-04-fi	le>REM echo off
	A:\runs\we-bp-cd-usb\hwb-04-fi where alpha, beta & gamma are	
	A:\runs\we-bp-cd-usb\hwb-04-fi to a logfile	le>REM Redirect the output
	A:\runs\we-bp-cd-usb\hwb-04-fi setup.txt	le>REM hwb-mod . X: > dir-
	A:\runs\we-bp-cd-usb\hwb-04-fi "mod: I:"	le>echo "mod: I:"
	A:\runs\we-bp-cd-usb\hwb-04-fi	le>mkdir I:\delta
	A:\runs\we-bp-cd-usb\hwb-04-fi	le>rmdir I:\gamma
	A:\runs\we-bp-cd-usb\hwb-04-file>copy I:\beta\zeta.txt I:\alpha A:\runs\we-bp-cd-usb\hwb-04-file>copy I:\beta\omega.txt I:\delta A:\runs\we-bp-cd-usb\hwb-04-file>del I:\beta\zeta.txt	
	A:\runs\we-bp-cd-usb\hwb-04-fi Final SHA1 value: CMD: /mnt/floppy/diskhash.csh /dev/sda A8 -after 92577F7B0A265FC883BBDFFBFB8E4E	HWB-04-file Poirot JRL
Results:	Assertion & Evposted Posult	Actual Result
vesuits:	Assertion & Expected Result AM-01 Modifying commands blocked	Modifying commands blocked
Analysis:	Expected results achieved	

Test Case HWB-04 Variation hwb-04-img WiebeTech Bus Powered ComboDock (USB)

Test Case HWB-04 Variation hwb-04-img WiebeTech Bus Powered ComboDock (USB)		
Case Summary:	HWB-04 Attempt to modify a protected drive with forensic tools.	
Assertions Tested:	HWB-AM-01 The HWB shall not transmit any modifying category operation to the protected storage device.	
Tester Name:	brl	
Test Date:	run start Tue Jan 10 16:30:29 7 run finish Tue Jan 10 16:53:04	
Test Configuration:	HOST: JohnStone HostToBlocker Monitor: none HostToBlocker PA: none HostToBlocker Interface: USB BlockerToDrive Monitor: none BlockerToDrive PA: none BlockerToDrive Interface: IDE Run Environment: IX	
Drives:	Protected drive: 8B 8B is a WDC WD200EB-00CSF0 configured to report 201600 sectors (103 MB)	
Blocker Input:	SHA of 8B is 92577F7B0A265FC883BBDFFBFB8E4E58E959B4D1 - Commands are sent to blocker by imaging tool	
Blocker Output:	CMD: /mnt/floppy/diskhash.csh HWB-04-IMG JohnSteed brl /dev/sdb 8B -after 92577F7B0A265FC883BBDFFBFB8E4E58E959B4D1 -	
Results:	Assertion & Expected Result AM-01 Modifying commands blocked	Actual Result Modifying commands blocked
Analysis:	Expected results achieved	

Test Case HWB-0	5 Variation hwb-05 WiebeTech Bus Powered ComboDock (USB)
Case Summary:	HWB-05 Identify read commands allowed by the HWB.
Assertions	HWB-AM-02 If the host sends a read category operation to
Tested:	the HWB and no error is returned from the protected
	storage device to the HWB, then the data addressed by
	the original read operation is returned to the host.
Tester Name:	brl
Test Date:	run start Sun Feb 5 11:36:23 2006
	run finish Sun Feb 5 11:46:36 2006
Test	HOST: JohnSteed
Configuration:	HostToBlocker Monitor: Chip
	HostToBlocker PA: AA00155
	HostToBlocker Interface: USB
	BlockerToDrive Monitor: none
	BlockerToDrive PA: none
	BlockerToDrive Interface: IDE
	Run Environment: Linux
Drives:	Protected drive: A8
	A8 is a WDC WD200BB-00AUA1 configured to report 201600
	sectors (103 MB)

Test Case HWB-0	5 Variation hwb-05 WiebeTech Bus Powered ComboDock (USB)
Blocker Input:	Commands Sent to Blocker
	Read sector 32767 for the string: 00002/010/08
	00000032767
Blocker	00002/010/08 000000032767
Output:	
Results:	Assertion & Expected Result Actual Result
	AM-02 Read commands allowed Read commands allowed
Analysis:	Expected results achieved

Test Case HWB-0	7 Variation hwb-07 WiebeTech Bu	us Powered ComboDock (USB)	
Case Summary:	HWB-07 Read a protected drive	with forensic tools.	
Assertions	HWB-AM-02 If the host sends a	read category operation to	
Tested:	the HWB and no error is returned from the protected		
	storage device to the HWB, then the data addressed by		
	the original read operation is returned to the host.		
	HWB-AM-03 If the host sends an information category		
	operation to the HWB and if there is no error on the		
	protected storage device, then		
	significant information is ret	turned to the host without	
	modification.		
Tester Name:	brl		
Test Date:	run start Tue Jan 10 16:55:58 2006		
	run finish Tue Jan 10 17:00:30	5 2006	
Test	HOST: JohnStone		
Configuration:	HostToBlocker Monitor: none		
	HostToBlocker PA: none		
	HostToBlocker Interface: USB		
	BlockerToDrive Monitor: none		
	BlockerToDrive PA: none		
	BlockerToDrive Interface: IDE		
	Run Environment: IX		
Drives:	Protected drive: 8B		
	8B is a WDC WD200EB-00CSF0 configured to report 201600		
	sectors (103 MB)		
Blocker Input:	SHA of 8B is 92577F7B0A265FC883BBDFFBFB8E4E58E959B4D1 -		
	Commands Sent to Blocker		
	Commands are sent to blocker h	oy imaging tool	
Blocker	Jan 11 15:58:05 iimager: SHA-1 Value :		
Output:	92577f7b0a265fc883bbdffbfb8e46	e58e959b4d1	
Results:	Assertion & Expected Result	Actual Result	
	AM-02 Read commands allowed	Read commands allowed	
	AM-03 Access Significant	Access Significant	
	Information unaltered	Information unaltered	
Analysis:	Expected results achieved		

Test Case HWB-0	8 Variation hwb-08 WiebeTech Bus Powered ComboDock (USB)
Case Summary:	HWB-08 Identify access significant information
	unmodified by the HWB.

Test Case HWB-08 Variation hwb-08 WiebeTech Bus Powered ComboDock (USB)		
Assertions	HWB-AM-03 If the host sends ar	n information category
Tested:	operation to the HWB and if there is no error on the	
	protected storage device, then	n any returned access-
	significant information is ret	turned to the host without
	modification.	
Tester Name:	brl	
Test Date:	run start Tue Jan 10 17:26:52 2006	
	run finish Tue Jan 10 17:34:03	3 2006
Test	HOST: JohnSteed	
Configuration:	HostToBlocker Monitor: none	
	HostToBlocker PA: none	
	HostToBlocker Interface: USB	
	BlockerToDrive Monitor: none	
	BlockerToDrive PA: none	
	BlockerToDrive Interface: IDE	
	Run Environment: Linux	
Drives:	Protected drive: BE BE is a WDC WD2000JB-00KFA0 with 390721968 sectors (200 GB)	
Blocker	cmd: /mnt/floppy/partab HWB-08 JohnSteed brl /dev/sda -	
Output:	all	
_	390721968 total number of sectors	
Results:	Assertion & Expected Result	Actual Result
Resules.	AM-03 Access Significant	Access Significant
	Information unaltered	Information unaltered
		Intormation unaitered
Analysis:	Expected results achieved	

Test Case HWB-09 Variation hwb-09 WiebeTech Bus Powered ComboDock (USB)			
Case Summary:	HWB-09 Determine if an error on the protected drive is		
	returned to the host.		
Assertions	HWB-AM-04 If the host sends an operation to the HWB and		
Tested:	if the operation results in an unresolved error on the		
	protected storage device, then the HWB shall return an		
	error status code to the host.		
Tester Name:	brl		
Test Date:	run start Tue Jan 10 17:34:56 2006		
	run finish Tue Jan 10 17:39:12 2006		
Test	HOST: JohnSteed		
Configuration:	HostToBlocker Monitor: none		
	HostToBlocker PA: none		
	HostToBlocker Interface: USB		
	BlockerToDrive Monitor: none		
	BlockerToDrive PA: none		
BlockerToDrive Interface: IDE			
	Run Environment: Linux		
Drives:	Protected drive: BE		
	BE is a WDC WD2000JB-00KFA0 with 390721968 sectors (200		
	GB)		
Blocker	24320/254/63 (max cyl/hd values)		
Output:	24321/255/63 (number of cyl/hd)		

Test Case HWB-0	9 Variation hwb-09 WiebeTech Bus Powered ComboDock (USB)	
390721968 total number of sectors cmd: /mnt/floppy/diskchg HWB-09 JohnSteed brl /dev/sda - read 390721969 0 1 -new_log Disk addr lba 390721969 C/H/S 24321/81/2 offset 0 Disk read error 0xFFFFFFFF at sector 24321/81/2		
Results:	Assertion & Expected Result Actual Result	
	AM-04 Error code returned Error code returned	
Analysis:	Expected results achieved	

About the National Institute of Justice

NIJ is the research, development, and evaluation agency of the U.S. Department of Justice. NIJ's mission is to advance scientific research, development, and evaluation 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.
- Create scientific, relevant, and reliable knowledge—with a particular emphasis on terrorism, violent crime, drugs and crime, cost-effectiveness, and community-based efforts—to enhance the administration of justice and public safety.
- 3. Develop affordable and effective tools and technologies to enhance the administration of justice and public safety.

Dissemination

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

Agency management

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

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

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

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