Test Results for Hardware Write Block Device: WiebeTech Forensic ComboDock (FireWire Interface)
Test Results for Hardware Write Block
Device: WiebeTech Forensic ComboDock
(FireWire Interface)
Glenn R. Schmitt

Acting Director

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May 2006
Contents

Introduction................................................................................................................................... 3

Test Results for Hardware Write Block Devices ................................................................. 4

1 Results Summary by Requirements ......................................................................................... 4
2 Test Case Selection.................................................................................................................. 4
3 Testing Environment.................................................................................................................. 5
   3.1 Test Computers ................................................................................................................ 5
   3.2 Protocol Analyzer ............................................................................................................ 5
   3.3 Hard Disk Drives ............................................................................................................. 5
   3.4 Support Software ............................................................................................................. 6
4 Test Results ............................................................................................................................. 7
   4.1 Test Results Report Key .................................................................................................... 7
   4.2 Test Details ......................................................................................................................... 8
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 Forensic ComboDock (FireWire Interface) write blocker, 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.
Test Results for Hardware Write Block Devices

Device Tested: WiebeTech Forensic ComboDock (FireWire Interface)
Model: FCD–COMBO
Serial No: 62001000206

Host to Blocker Interface: FireWire
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 Testing Environment
The tests were run in the NIST CFTT lab. This section describes the hardware (test computers and hard drives) available for testing.

3.1 Test Computers
Two test computers were used: Chan 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

JohnSteed has 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

3.2 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.

3.3 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
1 P 000000063 000096327 0000/001/01 0005/254/63 0B Fat32
2 X 000096390 000096390 0006/000/01 0011/254/63 05 extended
3 S 000000063 000096327 0006/001/01 0011/254/63 07 NTFS
4 S 000000000 000000000 0000/000/00 0000/000/00 00 empty entry
5 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry
6 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry

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
1 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry
9 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry
10 P 000000000 000000000 0000/000/00 0000/000/00 00 empty entry

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

### 3.4 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.

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sendSCSI</td>
<td>A tool to send SCSI commands wrapped in the USB or IEEE 1394 (FireWire) protocols to a drive.</td>
</tr>
<tr>
<td>FS–TST</td>
<td>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.</td>
</tr>
</tbody>
</table>
4 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.

4.1 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.

<table>
<thead>
<tr>
<th>Heading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Line</td>
<td>Test case ID; name, model, and interface of device tested.</td>
</tr>
<tr>
<td>Case Summary</td>
<td>Test case summary from <em>Hardware Write Blocker (HWB) Assertions and Test Plan Version 1.0.</em></td>
</tr>
<tr>
<td>Assertions Tested</td>
<td>The test assertions applicable to the test case, selected from <em>Hardware Write Blocker (HWB) Assertions and Test Plan Version 1.0.</em></td>
</tr>
<tr>
<td>Tester Name</td>
<td>Name or initials of person executing test procedure.</td>
</tr>
<tr>
<td>Test Date</td>
<td>Time and date that test was started and completed.</td>
</tr>
<tr>
<td>Test Configuration</td>
<td>Identification of the following:</td>
</tr>
<tr>
<td></td>
<td>1. Host computer for executing the test case.</td>
</tr>
<tr>
<td></td>
<td>2. Laptop attached to each protocol analyzer.</td>
</tr>
<tr>
<td></td>
<td>4. Interface between host and blocker.</td>
</tr>
<tr>
<td></td>
<td>5. Interface between blocker and protected drive.</td>
</tr>
<tr>
<td></td>
<td>6. Execution environment for tool sending commands from the host.</td>
</tr>
<tr>
<td>Hard Drives Used</td>
<td>Description of the protected hard drive.</td>
</tr>
<tr>
<td>Blocker Input</td>
<td>For test case HWB–02, a list of commands sent is provided.</td>
</tr>
<tr>
<td></td>
<td>For test cases HWB–02 and HWB–04, an SHA1 value for the entire drive is provided for reference.</td>
</tr>
<tr>
<td></td>
<td>For test case HWB–05, a string of known data from a given location is provided for reference.</td>
</tr>
<tr>
<td>Blocker Output</td>
<td>For test cases HWB–02, HWB–04, and HWB–07, an SHA1 value computed after commands are sent to the protected drive is given for comparison to the reference SHA1 value.</td>
</tr>
<tr>
<td>Heading</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td>For test case HWB–05, a string read from a given location is provided for comparison to known data.</td>
</tr>
<tr>
<td></td>
<td>For test case HWB–08, the number of sectors determined for the protected drive and the partition table are provided.</td>
</tr>
<tr>
<td></td>
<td>For test case HWB–09, any error return obtained by trying to access a nonexistent sector of the drive is provided.</td>
</tr>
</tbody>
</table>

| Results | Expected and actual results for each assertion tested. |
| Analysis | Whether or not the expected results were achieved. |

### 4.2 Test Details

**Test Case HWB-02 Variation hwb-02 WiebeTech Forensic ComboDock (FireWire)**

| Case Summary: | HWB-02 Identify modifying commands blocked by the HWB. |
| 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 Mon Nov 21 10:03:06 2005 run finish Mon Nov 21 10:24:28 2005 |
| Test Configuration: | HOST: JohnSteed HostToBlocker Monitor: Chip HostToBlocker PA: AA00155 HostToBlocker Interface: FW BlockerToDrive Monitor: none BlockerToDrive PA: none BlockerToDrive Interface: IDE Run Environment: knoppix |
| Drives: | Protected drive: 8B 8B is a WDC WD200EB-00CSF0 configured to report 201600 sectors (103 MB) |
| Blocker Input: | SHA of 8B is 92577F7B0A265FC883BBDFBF8E4E58E959B4D1 - Commands Sent to Blocker 210 SBP2 OP=READ(10) 10 SBP2 OP=WRITE(10) 1 SBP2 OP=WRITE(12) 1 SBP2 OP=WRITE BUFFER 1 SBP2 OP=WRITE LONG 1 SBP2 OP=WRITE SAME 2 SBP2 OP=WRITE/VERIFY 1 SBP2 OP=XDWRITE(10) 1 SBP2 OP=XDWRITEREAD(10) 1 SBP2 OP=XPWRITE(10) |
| Blocker Output: | CMD: /mnt/floppy/diskhash.csh HWB-02 JohnSteed BRL /dev/sda 8B -after 92577F7B0A265FC883BBDFBF8E4E58E959B4D1 - |

| Results: | **Assertion & Expected Result** | **Actual Result** |

May 2006

8 of 13 Results for FCD-COMBO (FW)
Test Case HWB-02 Variation hwb-02 WiebeTech Forensic ComboDock (FireWire)

<table>
<thead>
<tr>
<th>Analysis:</th>
<th>Expected results achieved</th>
</tr>
</thead>
</table>

Test Case HWB-04 Variation hwb-04-file WiebeTech Forensic ComboDock (FireWire)

**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:** JRL

**Test Date:**
run start Mon Dec 12 10:44:14 2005
run finish Mon Dec 12 11:21:58 2005

**Test Configuration:**
HOST: Chan
HostToBlocker Monitor: none
HostToBlocker PA: none
HostToBlocker Interface: FW
BlockerToDrive Monitor: none
BlockerToDrive PA: none
BlockerToDrive Interface: IDE
Run Environment: WXP

**Drives:**
Protected drive: 8B
8B is a WDC WD200EB-00CSF0 configured to report 201600 sectors (103 MB)

**Blocker Input:**
SHA of 8B is 92577F7B0A265FC883BBDFBBF8E4E58E959B4D1 - Commands are sent to blocker by OS operations:

```
@echo off
REM %1 is the directory where alpha, beta & gamma are created
REM Redirect the output to a logfile
REM hwb-mod . X: > dir-setup.txt

echo "mod: %1"
mdir %1\delta
rmdir %1\gamma
copy %1\beta\zeta.txt %1\alpha
copy %1\beta\omega.txt %1\delta
del %1\beta\zeta.txt
dir %1 /b /s
```

**Blocker Output:**
Results for FAT partition:
"mod: I:"
1 file(s) copied.
1 file(s) copied.
I:\alpha
I:\beta
I:\delta
I:\alpha\zeta.txt
I:\beta\omega.txt
I:\delta\omega.txt
I:\System Volume Information\_restore{0AD1766F-E62F-
Test Case HWB-04 Variation hwb-04-file WiebeTech Forensic ComboDock (FireWire)

46E2-BFC2-3AB0A5437967
I:\System Volume Information\_restore\0AD1766F-E62F-46E2-BFC2-3AB0A5437967\RP21
I:\System Volume Information\_restore\0AD1766F-E62F-46E2-BFC2-3AB0A5437967\RP21\change.log
Results for NTFS partition:
"mod: J:"
    1 file(s) copied.
    1 file(s) copied.
J:\alpha
J:\beta
J:\delta
J:\alpha\zeta.txt
J:\beta\omega.txt
J:\delta\omega.txt
Final SHA1 value:
CMD: /media/floppy/diskhash.csh HWB-04-file Poirot JRL
/dev/sdb 8B -after
92577F7B0A265FC883BBDFBFB8E4E58E959B4D1 -

Results:
<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-01 Modifying commands</td>
<td>Modifying commands blocked</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved

Test Case HWB-04 Variation hwb-04-img WiebeTech Forensic ComboDock (FireWire)

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 Mon Nov 21 09:19:43 2005
          run finish Mon Nov 21 09:45:16 2005

Test Configuration:
HOST: JohnSteed
HostToBlocker Monitor: none
HostToBlocker PA: none
HostToBlocker Interface: FW
BlockerToDrive Monitor: none
BlockerToDrive PA: none
BlockerToDrive Interface: IDE
Run Environment: IXimager

Drives:
Protected drive: 8B
8B is a WDC WD200EB-00CSF0 configured to report 201600 sectors (103 MB)

Blocker Input:
SHA of 8B is 92577F7B0A265FC883BBDFBFB8E4E58E959B4D1 -
Commands are sent to blocker by imaging tool

Blocker Output:
CMD: /mnt/floppy/diskhash.csh HWB-04-IMG JohnSteed BRL
/dev/sda 8B -after
92577F7B0A265FC883BBDFBFB8E4E58E959B4D1 -
Test Case HWB-04 Variation hwb-04-img WiebeTech Forensic ComboDock (FireWire)

Results:

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-01 Modifying commands blocked</td>
<td>Modifying commands blocked</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved

Test Case HWB-05 Variation hwb-05 WiebeTech Forensic ComboDock (FireWire)

Case Summary: HWB-05 Identify read commands allowed by the HWB.

Assertions Tested:
HWB-AM-02 If the host sends a read category operation to 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 Mon Nov 21 09:53:45 2005
run finish Mon Nov 21 10:02:22 2005

Test Configuration:
HOST: JohnSteed
HostToBlocker Monitor: none
HostToBlocker PA: none
HostToBlocker Interface: FW
BlockerToDrive Monitor: none
BlockerToDrive PA: none
BlockerToDrive Interface: IDE
Run Environment: Knoppix

Drives:
Protected drive: 8B
8B is a WDC WD200EB-00CSF0 configured to report 201600 sectors (103 MB)

Blocker Input:
Commands Sent to Blocker
Read sector 32767 for the string: 00002/010/0800000032767

Output:

Results:

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-02 Read commands allowed</td>
<td>Read commands allowed</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved

Test Case HWB-07 Variation hwb-07 WiebeTech ComboDock (FireWire)

Case Summary: HWB-07 Read a protected drive with forensic tools.

Assertions Tested:
HWB-AM-02 If the host sends a read category operation to 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 any returned access-significant information is returned to the host without modification.

Tester Name: BRL
Test Date: run start Sun Nov 20 15:13:39 2005

May 2006 11 of 13 Results for FCD-COMBO (FW)
Test Case HWB-07 Variation hwb-07 WiebeTech ComboDock (FireWire)

run finish Mon Nov 21 09:15:35 2005

Test Configuration:
HOST: JohnSteed
HostToBlocker Monitor: none
HostToBlocker PA: none
HostToBlocker Interface: FW
BlockerToDrive Monitor: none
BlockerToDrive PA: none
BlockerToDrive Interface: IDE
Run Environment: IX(imager)

Drives:
Protected drive: BE
BE is a WDC WD2000JB-00KFA0 with 390721968 sectors (200 GB)

Blocker Input:
SHA of BE is 8F470B10EA370171543380CA0CD55B406C6359BD
Commands Sent to Blocker
Commands are sent to blocker by imaging tool

Blocker Output:
Nov 20 18:15:50 iimager: SHA-1 Value:
8f470b10ea370171543380ca0cd55b406c6359bd

Results:

<table>
<thead>
<tr>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-02 Read commands allowed</td>
<td>Read commands allowed</td>
</tr>
<tr>
<td>AM-03 Access Significant Information unaltered</td>
<td>Access Significant Information unaltered</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved

Test Case HWB-08 Variation hwb-08 WiebeTech Forensic ComboDock (FireWire)

Case Summary:
HWB-08 Identify access significant information unmodified by the HWB.

Assertions Tested:
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 any returned access-significant information is returned to the host without modification.

Tester Name: JRL
Test Date: run start Sun Nov 20 14:50:41 2005
run finish Sun Nov 20 14:53:43 2005

Test Configuration:
HOST: JohnSteed
HostToBlocker Monitor: none
HostToBlocker PA: none
HostToBlocker Interface: FW
BlockerToDrive Monitor: none
BlockerToDrive PA: none
BlockerToDrive Interface: IDE
Run Environment: Knoppix

Drives:
Protected drive: BE
BE is a WDC WD2000JB-00KFA0 with 390721968 sectors (200 GB)

Blocker Output:
cmd: /mnt/floppy/partab HWB-08 JohnSteed JRL /dev/sda BE -all
390721968 total number of sectors
### Test Case HWB-08 Variation hwb-08 WiebeTech Forensic ComboDock (FireWire)

<table>
<thead>
<tr>
<th>Results:</th>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AM-03 Access Significant Information unaltered</td>
<td>Access Significant Information unaltered</td>
</tr>
</tbody>
</table>

Analysis: Expected results achieved

### Test Case HWB-09 Variation hwb-09 WiebeTech Forensic ComboDock (FireWire)

**Case Summary:** HWB-09 Determine if an error on the protected drive is returned to the host.

**Assertions Tested:**

HWB-AM-04 If the host sends an operation to the HWB and 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 Sun Nov 20 14:58:45 2005
- run finish Sun Nov 20 15:03:03 2005

**Test Configuration:**
- HOST: JohnSteed
- HostToBlocker Monitor: none
- HostToBlocker PA: none
- HostToBlocker Interface: FW
- BlockerToDrive Monitor: none
- BlockerToDrive PA: none
- BlockerToDrive Interface: IDE
- Run Environment: Knoppix

**Drives:**
- Protected drive: BE
  - BE is a WDC WD2000JB-00KFA0 with 390721968 sectors (200 GB)

**Blocker Output:**
- 24320/254/63 (max cyl/hd values)
- 24321/255/63 (number of cyl/hd)
- 390721968 total number of sectors
- cmd: /mnt/floppy/diskchg HWB-09 JohnSteed BRL /dev/sda - read 490721968 0 32
  - Disk addr lba 490721968 C/H/S 30546/7/38 offset 0
  - Disk read error 0xFFFFFFFF at sector 30546/7/38

<table>
<thead>
<tr>
<th>Results:</th>
<th>Assertion &amp; Expected Result</th>
<th>Actual Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AM-04 Error code returned</td>
<td>Error code returned</td>
</tr>
</tbody>
</table>

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.

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

Dissemination

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

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

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

or contact:

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