

# Forensic Data Recovery – Source Drive Initial Diagnosis Form

|                                 |  |                |
|---------------------------------|--|----------------|
| <b>Date and Time:</b>           | <b>Exam Location:</b>  | <b>Case #:</b> |
| <b>Hard Drive Submitted by:</b> | <b>Basis for Examination:</b>  |                |
| <b>Agency:</b>                  | <b>Phone Number(s):</b><br>Home:                      Office:                      Cell: |                |

## HARD DRIVE DESCRIPTION

|   |   |                  |  |
|---|---|------------------|--|
| <b>HDD Type:</b> <input type="checkbox"/> 1" <input type="checkbox"/> 2.5" <input type="checkbox"/> 3.5" <input type="checkbox"/> Other | <b>Connector Type:</b> <input type="checkbox"/> IDE <input type="checkbox"/> PATA <input type="checkbox"/> SATA <input type="checkbox"/> SCSI <input type="checkbox"/> ZIF <input type="checkbox"/> Other |                  |  |
| <b>Drive/ Media(s)</b>  | <b>Manufacturer</b>   | <b>Model</b>     |  |
| Drive Board Information (PCB)   |   | Firmware         |  |
| Names and sizes of partitions/volumes   |   | Manufacture Date |  |
| Hard Drive Size   |   |                  |  |

## DOCUMENTATION

| √ | Date | Time | Item                          | Notes |
|---|------|------|-------------------------------|-------|
|   |      |      | Photocopy Hard Drive Label    |       |
|   |      |      | Photograph Hard Drive         |       |
|   |      |      | Photograph PCB front and back |       |
|   |      |      | Photograph drive interior     |       |
|   |      |      | Other Photographs taken:      |       |

## EXTERIOR EXAMINATION

| √ | Analysis Item  | Notes |
|---|--|-------|
|   | Visually inspect PCB power and data connectors   |       |
|   | Visually inspect PCB components and contacts:<br>a) Burned<br>b) Other damage<br>c) Missing components<br>d) TVS/Fuses |       |
|   | Shake the drive (slightly)<br>a) Is there anything rattling in the case? (broken head assembly)                        |       |
|   | Attach external power supply to check the power up and listen to spindle/heads power up                                |       |
|   | Drives Sounds:<br>a) No Spin-up<br>b) Clicking Sound<br>c) In complete sound   |       |
|   | Drives w/ serial interface (Seagate and Samsung)<br>Check ERROR's through terminal commands                            |       |

## INTERIOR EXAMINATION

| √ | Analysis Item  | Notes |
|---|--|-------|
|   | Exam platters through Push Pin opening   |       |
|   | Open hard drive case:<br>a) Visually exam observable heads<br>b) Visually exam platter surface<br>c) Exam air filter |       |

## ADDITIONAL ANALYSIS NOTES

| Notes/Comments:          | Actions Taken:        |
|--------------------------|-----------------------|
|                          |                       |
|                          |                       |
|                          |                       |
|                          |                       |
| Examiner's Printed Name: | Examiner's Signature: |

# Forensic Data Recovery – Source Drive Firmware Examination Form

## HARD DRIVE DESCRIPTION

|  |  |  |  |
|--|--|--|--|
| HDD Type: <input type="checkbox"/> 1" <input type="checkbox"/> 2.5" <input type="checkbox"/> 3.5" <input type="checkbox"/> Other |  | Connector Type: <input type="checkbox"/> IDE <input type="checkbox"/> PATA <input type="checkbox"/> SATA <input type="checkbox"/> SCSI <input type="checkbox"/> ZIF <input type="checkbox"/> Other |  |
| Drive/ Media(s)<br>Manufacturer  |  | Model  |  |
| Drive Board Information<br>(PCB)   |  | Firmware   |  |
| Names and sizes of<br>partitions/volumes   |  | Manufacture<br>Date  |  |
| Hard Drive Size  |  |  |  |

## SERVICE AREA EXAMINATION

| √             | Analysis Item   | Notes  |               |                  |  |  |
|---------------|---|--|---------------|------------------|--|--|
|               | Connect drive to analysis equipment   |  |               |                  |  |  |
|               | Backup System Service Area data<br>a) Capture data into logical image file  |  |               |                  |  |  |
|               | Backup System ROM<br>a) Capture data into logical image file  |  |               |                  |  |  |
|               | Analysis Service Area Modules:<br><br>a) Translation Table status<br><br>b) P-List status<br><br>c) G-List status<br><br>d) Other Primary Modules<br>_____<br>_____<br>_____<br><br>e) Other secondary Modules<br>_____<br>_____<br>_____ | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Module Status</th> <th style="width: 50%;">Suggested Repair</th> </tr> </thead> <tbody> <tr> <td style="height: 200px;"></td> <td></td> </tr> </tbody> </table> | Module Status | Suggested Repair |  |  |
| Module Status | Suggested Repair  |  |               |                  |  |  |
|               |   |  |               |                  |  |  |
|               | ROM Analysis  |  |               |                  |  |  |
|               | FIRMWARE REPAIR ATTEMPTS<br><br>Notes:<br>_____<br>_____<br>_____<br>_____  |  |               |                  |  |  |

## ADDITIONAL ANALYSIS NOTES

| Notes/Comments: | Actions Taken: |
|-----------------|----------------|
|                 |                |
|                 |                |
|                 |                |
|                 |                |

|                          |                       |
|--------------------------|-----------------------|
| Examiner's Printed Name: | Examiner's Signature: |
|                          |                       |

# Forensic Data Recovery – Additional Hard Drive Documentation

## DONOR HARD DRIVE

|  |  |  |  |
|--|--|--|--|
| HDD Type: <input type="checkbox"/> 1" <input type="checkbox"/> 2.5" <input type="checkbox"/> 3.5" <input type="checkbox"/> Other |  | Connector Type: <input type="checkbox"/> IDE <input type="checkbox"/> PATA <input type="checkbox"/> SATA <input type="checkbox"/> SCSI <input type="checkbox"/> ZIF <input type="checkbox"/> Other |  |
| Drive/ Media(s)<br>Manufacturer  |  | Model  |  |
| Drive Board Information<br>(PCB)   |  | Firmware   |  |
| Hard Drive Size  |  | Manufacture<br>Date  |  |
| PCB Identification   |  |  |  |

## DOCUMENTATION

| √ | Date | Time | Item  | Notes |
|---|------|------|---|-------|
|   |      |      | Donor Drive Acquisition Documentation             |       |
|   |      |      | Photocopy Hard Drive Label                        |       |
|   |      |      | Photograph Hard Drive                             |       |
|   |      |      | Photograph PCB (front and back)                   |       |
|   |      |      | Wipe Donor Hard Drive                             |       |
|   |      |      | Backup Firmware/ROM/RAM and copy to evidence file |       |
|   |      |      |   |       |

## NOTES

| Notes/Comments: | Actions Taken: |
|-----------------|----------------|
|                 |                |
|                 |                |
|                 |                |
|                 |                |

## CLONE HARD DRIVE

|  |  |  |  |
|--|--|--|--|
| HDD Type: <input type="checkbox"/> 1" <input type="checkbox"/> 2.5" <input type="checkbox"/> 3.5" <input type="checkbox"/> Other |  | Connector Type: <input type="checkbox"/> IDE <input type="checkbox"/> PATA <input type="checkbox"/> SATA <input type="checkbox"/> SCSI <input type="checkbox"/> ZIF <input type="checkbox"/> Other |  |
| Drive/ Media(s)<br>Manufacturer  |  | Model  |  |
| Drive Board Information<br>(PCB)   |  | Firmware   |  |
| Hard Drive Size  |  | Manufacture<br>Date  |  |
| PCB Identification   |  |  |  |

## DOCUMENTATION

| √ | Date | Time | Item  | Notes |
|---|------|------|---|-------|
|   |      |      | Photocopy Hard Drive Label  |       |
|   |      |      | Photograph Hard Drive front and back  |       |
|   |      |      | Wipe Clone Hard Drive   |       |
|   |      |      | Backup Firmware/ROM/RAM and copy to evidence file                                     |       |
|   |      |      | HPA set to source drive size <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
|   |      |      |   |       |

## NOTES

| Notes/Comments: | Actions Taken: |
|-----------------|----------------|
|                 |                |
|                 |                |
|                 |                |
|                 |                |