

1. Review Legal Authority
2. Restore Forensic Tower to a known Image
3. Check that the date/time on Forensic Tower is correct
4. Select a wiped and formatted target drive of appropriate size
5. Perform a write blocker verification
6. Perform a software verification
7. Document evidence packaging
8. Document Suspect System Information
9. Remove the Hard Drive
10. Run an Initial Hash value on the evidence drive with software tool of choice
11. Open Axion Process

11.1 Tools menu, click Settings Imaging

11.2. Select Image Segmentation

IMAGE SEGMENTATION

Image segmentation for full Android images and drive images:

None ▾

CD

DVD

DVD DL

Blu-ray

FAT

Custom

None

h value for each evidence source that's being acquired.

value of each acquired image file (E01 image files only).

11.3 Image hashing

IMAGE HASHING

☒ Calculate a hash value for each evidence source that's being acquired.

☒ Verify the hash value of each acquired image file (E01 image files only).

11.4 Select Compression method (none, best, fast)

COMPRESSION

The method of compression used for E01 images

Best ▾

11.5 Under processing select Image Hash Verification

IMAGE HASH VERIFICATION

☒ Verify the hash value of each image (E01 and AFF4 only).

Form approved for use by: *Jim Tuller*

HASHING

FILE SIZE LIMIT FOR HASHING

☐ To optimize processing time, don't calculate hashes for files larger than

11.7 Select Hash Format (MD5, SH1, or both)

HASH FORMATS

When hashing is enabled, calculate hashes in the following formats:

MD5 ▼

12. Create New Case

Magnet AXIOM Process 6.10.0.34490

File Tools Help

CREATE NEW CASE

CREATE NEW CASE

13. Complete Case Details

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups

On

Add keywords to search

Extract text from files (OCR)

Calculate hashes and find matches

On

Analyze chats with Magnet.AI

Analyze pictures with Magnet.AI

Add CPS data to search

Find more artifacts

ARTIFACT DETAILS

0

Computer artifacts

Mobile artifacts

Cloud artifacts

Vehicle artifacts

Parse and carve artifacts

Date range filter

ANALYZE EVIDENCE

CASE DETAILS

CASE INFORMATION

Case number

Case type

LOCATION FOR CASE FILES

Folder name

File path

BROWSE

Available space: 860.08 GB

LOCATION FOR ACQUIRED EVIDENCE

Folder name

File path

BROWSE

Available space: 860.08 GB

SCAN INFORMATION

SCAN 1

Scanned by

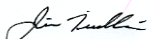
Description

REPORT OPTIONS

Cover logo

BROWSE

Image resized to 150x150 pixels

Form approved for use by: 

Computer Extraction Processing Steps
North Carolina State Crime Laboratory
Digital Evidence Section
14. Select Computer

Version 1
Effective Date: April 11, 2023

EVIDENCE SOURCES

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups On

Add keywords to search

Extract text from files (OCR) On

Calculate hashes and find matches On

Analyze chats with Magnet.AI

Analyze pictures with Magnet.AI

Add CPS data to search

Find more artifacts

SELECT EVIDENCE SOURCE

 **COMPUTER**

 **MOBILE**

 **CLOUD**

 **VEHICLE**

EVIDENCE SOURCES ADDED TO CASE

Type	Image - location name	Evidence number
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15. Select proper OS

EVIDENCE SOURCES

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups On

Add keywords to search


Extract text from files (OCR) On

Calculate hashes and find matches On

Analyze chats with Magnet.AI

COMPUTER

SELECT EVIDENCE SOURCE

 **WINDOWS**

 **MAC**

 **LINUX**

 **CHROMEBOOK**

16. Acquire Evidence

EVIDENCE SOURCES

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups On


Add keywords to search


Extract text from files (OCR) On

Calculate hashes and find matches On

WINDOWS

LOAD OR ACQUIRE

 **LOAD EVIDENCE**

 **ACQUIRE EVIDENCE**

17. Select Physical Drive

EVIDENCE SOURCES

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups On

Add keywords to search

Extract text from files (OCR) On

Calculate hashes and find matches On

Analyze chats with Magnet.AI

Analyze pictures with Magnet.AI

Add CPS data to search

Find more artifacts

ARTIFACT DETAILS

Computer artifacts 0

Mobile artifacts

Cloud artifacts

Vehicle artifacts

Parse and carve artifacts

COMPUTER

SELECT DEVICE

 **DRIVE**

Name: PhysicalDrive4 Force MP600 (931.51 GB)
Type: Fixed hard disk media
Size: 931.51 GB
Serial Number: 6479_A73F_3020_018C.

 **DRIVE**

Name: PhysicalDrive2 Force MP600 (1.82 TB)
Type: Fixed hard disk media
Size: 1.82 TB
Serial Number: 6479_A744_4020_0103.

 **DRIVE**

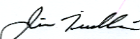
Name: PhysicalDrive6 USB Flash Disk USB Device (1.86 GB)
Type: Removable Media
Size: 1.86 GB
Serial Number: AA000000000000489

 **DRIVE**

Name: PhysicalDrive3 Force MP600 (931.51 GB)
Type: Fixed hard disk media
Size: 931.51 GB
Serial Number: 6479_A73F_2020_0304.

 **DRIVE**

Name: PhysicalDrive7 Hitachi HTS721010G9AT00 USB Device (93.16 GB)
Type: External hard disk media
Size: 93.16 GB
Serial Number: MPC082Y0G7VMBE

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18. Select Full Contents

CASE DETAILS

EVIDENCE SOURCES

PROCESSING DETAILS

Search archives and mobile backups On

Add keywords to search

Extract text from files (OCR)

Calculate hashes and find matches On

EVIDENCE SOURCES

COMPUTER

SELECT IMAGE TYPE

Please select the type of image you want to acquire:

Full
☒ Entire contents of the drive in E01 format [More info](#)
☐ Entire contents of the drive in raw format [More info](#)
☐ All files and folders [More info](#)

Quick
☐ Targeted acquisition [More info](#)

19. Select Okay

Search type

Select the search type for the source location:

Source location PhysicalDrive2 Force MP600 (1.82 TB)

Search type Full

OKAY

20. Select Go to Processing

21. Maintain default settings for all processing details except for artifact details

22. Artifact Details/Computer artifacts select all allowable (items not grayed out)

CASE DETAILS

EVIDENCE SOURCES 1

PROCESSING DETAILS

Search archives and mobile backups On

Add keywords to search

Extract text from files (OCR)

Calculate hashes and find matches On

Analyze chats with Magnet.AI

Analyze pictures with Magnet.AI

Add CPS data to search

Find more artifacts

ARTIFACT DETAILS 231

Computer artifacts 231 of 252

Mobile artifacts

Cloud artifacts

Vehicle artifacts

Parse and carve artifacts

Date range filter

COMPUTER ARTIFACTS

CLEAR ALL

☒ ADDITIONAL SOURCES (4 of 4)

☒ APPLICATION USAGE (7 of 7)

☒ CLOUD STORAGE (6 of 6)

☒ COMMUNICATION (39 of 39)

☒ CONNECTED DEVICES (9 of 9)

☒ CUSTOM ARTIFACTS (5 of 5)

☒ DOCUMENTS (17 of 17)

☒ EMAIL & CALENDAR (14 of 14)

☒ ENCRYPTION & CREDENTIALS (5 of 5)

☒ LOCATION & TRAVEL (1 of 1)

☒ MEDIA (13 of 13)

☐ MEMORY (0 of 21)

☒ OPERATING SYSTEM (71 of 71)


☒ PEER TO PEER (11 of 11)

☒ SOCIAL NETWORKING (9 of 9)

☒ VOLATILE ARTIFACTS (1 of 1)

☒ WEB RELATED (19 of 19)

*Update worksheet dropdowns before selecting next

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24. Create a Portable Case

The screenshot shows the 'EXPORT / REPORT FORMAT' window. On the left is a sidebar with 'EXPORT / REPORT FORMAT' at the top, followed by 'ITEMS TO INCLUDE' (with sub-options: Select artifacts, Configure artifact details, Customize title page, Customize formatting options, Provide additional information), and 'PREVIEW AND SAVE'. The main area is titled 'EXPORT / REPORT FORMAT' and contains a grid of icons and descriptions for different export formats:

- HTML**: View evidence in a browser format with search and sort options.
- PDF**: Share evidence in a read-only format that's easy to print.
- PORTABLE CASE** (highlighted): Create a portable case to collaborate on cases with stakeholders.
- MAGNET REVIEW**: Export evidence from AXIOM Examine to share in Magnet REVIEW.
- CSV**: Export evidence in a comma-separated value file.
- EXCEL**: Export evidence in a spreadsheet to use in Excel (xlsx).
- XML**: Export evidence to use with another tool or script.
- IDENTIFIERS**: Share identifier data with other organizations (json).
- KML**: Export GPS coordinates from the evidence to plot on a map browser.
- PST**: Export Outlook emails to review in a PST viewer.
- VICS**: Submit categorized media to Project VIC or CAID (json).

25. Select Items to Include (All evidence)


The screenshot shows the 'Create export / report' window. The left sidebar is the same as in the previous screenshot. The main area is titled 'ITEMS TO INCLUDE' and contains the following content:

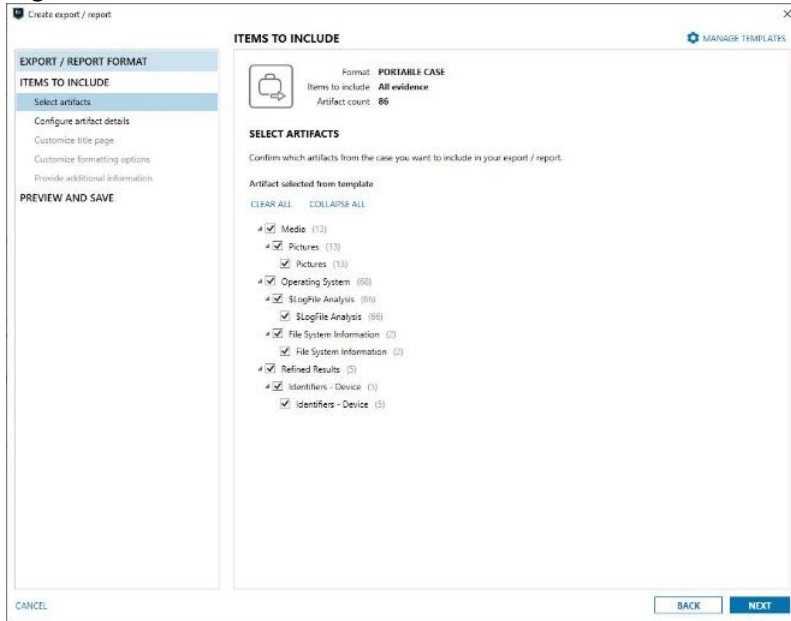
ITEMS TO INCLUDE

Select which items from the case you want to include in your export / report:

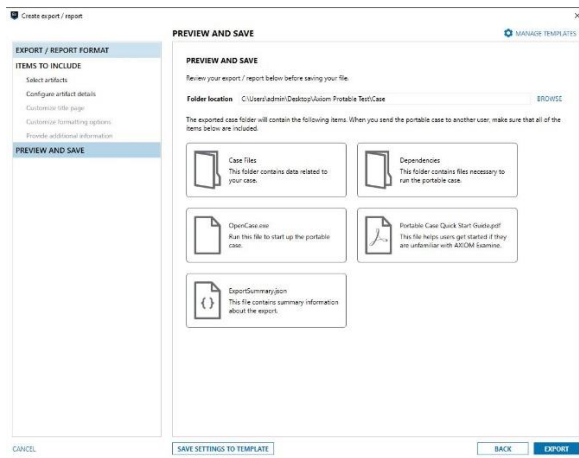
- ☐ Use a template (includes specific artifact types, columns, and format options)
- ☒ All evidence (86)
- ☐ Items in the current view (86)

26. Select all Artifacts

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27. Preview and Save



28. Generate post verification hash value of the image file.

29. Transfer the Portable case folder to removable media (Do not rename the folders)

30. Save forensic image file to removable media in a folder named "Item # Forensic Image DO NOT OPEN".

31. Rename Portable Case folder to "Item # Portable Case"

32. Save the image_info.txt to PDF and upload to the Case Record Object Repository

image_info.txt is in the folder where the forensic image was saved

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