

X-Ways Initial Settings

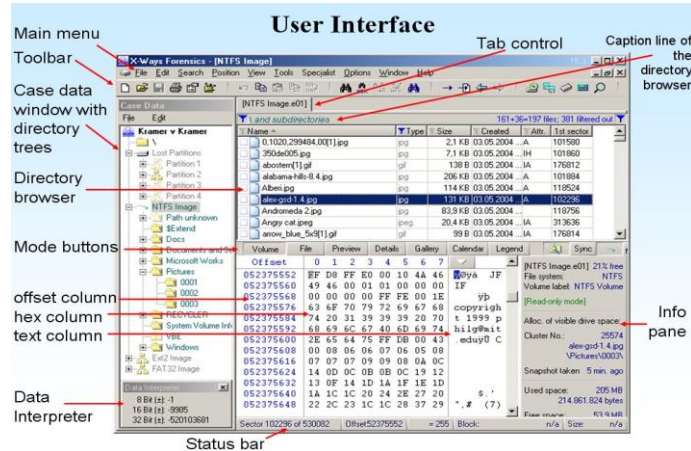
- Initial Settings: Click Options -> General
- Verify the paths for
 - Temporary Files
 - Evidence
 - Cases
- Click into "Display time zone" and verify the desired timezone is selected
- Choose "Notation" to view or change the way Date/Time is displayed

General X-Ways Rules and Information

- Legend key, located in mode button bars, is used for icon help
- X-Ways is unable to perform more than one process at a time
 - Example: Unable to both search for an item and extract it at same time
- Some checkmarked boxes have multiple states
- Check marks on boxes to the right of setting options will indicate that a process has already been run
- Tag (or select) items by clicking on the box to the left of their name
 - Will turn purple when tagged
- Timestamp Features:
 - To view timezone info: Click on case -> right click on properties -> see description

X-Ways Cheat Sheet

- Erik Martin -



Creating a Case - Instructions

- Begin in the Case Data window
- Click on file
- Click on create new case
- Input information
 - Case title
 - Directory
 - Examiner
 - Most other default values will work
- Click ok button at bottom of window to create new case

X-Ways Important UI Features

- Column Customization: Ability to filter, resize, and reorder
- Case Processing: Refine Volume Snapshot
- Mode Buttons:
 - Partition: Hex view with partition offset, physical
 - File: Hex view with offset starting at zero, logical
 - Preview: Best guess on how file should look
 - Details: Metadata
 - Gallery: Images
 - Calendar: Shows events in calendar form
 - Legend: List of icons and their associated meanings
 - Recursion: Useful when searching entire directory contents
 - Search Hit: Use to check list of all completed search results
 - Events: Similar to Plaso; timeline

Viewing Evidence Information

- Right click on the image in Case Data Window
- Click on properties
- A window will open -> Description will contain information regarding the evidence

Case Processing (Refine Volume Snapshot) - Instructions

- Begin on top menu bar
- Click on Specialist
- Click on the first option, Refine Volume Snapshot

Refine Volume Snapshot (RVS) Information

- Processes case based on settings, including: hashes, emails and signature analysis
- Can run RVS on images and files added to the case
 - When tagging individual files you want, open up RVS, select greedy, and check the tagged items only box
- Additional columns will be populated when run (example: skin tone)
- 3 Levels of Processing:
 - Disk Image [1]
 - Clicking on Particularly thorough... will reveal an options box for more customization
 - Individual Files [2]
 - File header signature search = file carving
 - Searching [3]
 - Threading option (immediate) with max threads
 - To select all options, click on the far-right box (greedy mode)

Refine Volume Snapshot Processing Options

- Must have:
 - Particularly thorough file system data structure search [1]
 - File header signature search [1]
 - Compute Hash [2]
 - Verify file types with signatures and algorithm [2]
 - Extract metadata, browser history, and events [2]
 - Include contents of file archives [2]
- Nice to have:
 - Greedy mode [2]
 - Indexing [2]
 - Match hash values against database [2]

Search (Simultaneous Search) - Instructions

- 1) Click on Search on the top navigation pane
- 2) Select simultaneous search
- 3) Add your search term(s) into the search box
 - a. Take a look at the options to better perform your search

Search Options

- Can stop searching if "one hit per file"
- Decode text in file (will search pdfs, email, etc. for search terms)
- Able to understand grep
 - `grep:[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}` See regex manual for more info
- For certain check mark boxes
 - Full check = every line is checked
 - Half check = prepend the search term with : (line is case sensitive)
- To see search results, click on the binoculars mode button

Did you know

- X-Ways can image/clone disks
- X-Ways can edit disks
- Defining a block / carving from unallocated
 - 1) Select group of hex
 - 2) Right click and select add to block file
 - 3) Add (or create) to report table
 - 4) If selected in partition mode: results will show up in path unknown directory
 - 5) If Selected in file mode: results will show up as child of selected file
- X-ways can refine PSTs
- Able to open MFT, USN and LogFile individually as well as evt, evtX, internet history, ost, and pst to name a few
 - X-Ways will parse each individually
- X-Ways will parse and view the registry, similarly to reg ripper

Filtering – General Information

- To see all filtering options, click CTRL F5
- Filtering is distinguished by the funnel icon
 - Purple funnel – filter is applied
 - Grey funnel – filter is not applied
- Master filter toggle is directly above the column, next to the Case Data pane
 - Left click toggle for master filter
 - Right click will list all filters
- Individual filter toggle is located on each column's title
 - Left clicking the funnel will pop up a window to add filter options
 - Right click toggle column filter
 - Can filter on multiple columns at once
 - Can freeze columns (in filtering options - first scrollable column)

Filtering by Column

- 1) Left click on the funnel icon next to the title of the column (near top of your screen)
 - 2) A filtering options box will pop up with options on how to filter the column
- Useful filtering columns:
 - Type
 - Timestamp
 - Description: Useful for checking only tagged items
 - Hash category: will get filled out if RVS – match hash values against hash databases
 - Type Column
 - Will not get items with mismatched file signatures
 - Avoid with RVS option or by previewing a file

Sorting

- To sort a column (either ascending or descending), left click on the column title
- Can sort by up to 3 columns at once:
 - The primary sorted column will have a black triangle next to the column title, the secondary column will have a dark grey triangle, and the tertiary column will have a light grey triangle
- Holding down shift and clicking on the column title will remove all other sorting

Report Table Associations

- To quickly add selected items to created report tables, press Ctrl and the corresponding number
- Used to group items

Creating a Report (better tagging) Instructions

- 1) Select the files you want to add to the report
- 2) Right click on one of the files and click "Report table association"
- 3) Click on New (unless you have previously created a group for the Items)
- 4) Select the group to add the tagged items too
- 5) Click Create
- 6) Click on file in the Case Data Window
- 7) Click on Create Report
- 8) In the top right select the Report Tables you want to include in your report
- 9) In the bottom right, select the specific details you want included in your report

Exporting Files - Instructions

- 1) Right click on the file you want to export
- 2) Click on Recover/Copy...
- 3) Input the desired output path

Exporting File Metadata

Must run RVS first for certain fields

- 1) Select the file(s) you want information from
- 2) Right click on any one of the selected files
- 3) Click export list
 - To copy selected fields to clipboard, select both TSV and clipboard
- 4) Select the fields you want to include
- 5) Click OK

Shifting Columns

- 1) Open the filtering settings (CTRL F5)
- 2) Click the circle on the far right of the column you want to shift
- 3) Using the up or down arrows in the top right of the window, move the column name up or down to the desired location