

# Forensic support in MISP

Tools and visualization to support digital forensic expert

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**MISP**  
**Threat Sharing**

- **Share analyses and reports** of digital forensic evidences.
- **Propose changes** to existing analyses or reports.
- Extending existing events with additional evidences for local or use in limited distribution sharing (sharing can be defined at event level or attribute level).
- **Evaluate correlations**<sup>1</sup> of evidences against external or local attributes.
- **Report sightings** such as false-positive or true-positive (e.g. a partner/analyst has seen a similar indicator).

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<sup>1</sup>MISP has a flexible correlation engine which can correlate on 1-to-1 value matches, but also on fuzzy hashing (e.g. ssdeep) or CIDR block matching.

# BENEFITS OF USING MISP

- LE can leverage the long-standing experience in information sharing and **bridge their use-cases** with MISP's information sharing mechanisms.
- **Accessing existing MISP information sharing communities** by receiving actionable information from CSIRT/CERT networks or security researchers.
- **Bridging LE communities with other communities.** Sharing groups can be created (and managed) cross-sectors to support specific use-cases.
- The **MISP standard** is a flexible format which can be extended by users using the MISP platform. A MISP object template can be created in under 30 minutes, allowing users to rapidly share information using their own data-models with existing communities.

- Standard sharing mechanism for forensic cases
  - ▶ MISP allows for the efficient **collaborative** analysis of digital evidences
  - ▶ Correlation on certain attributes
- Importing disk images and file system data activity (Mactime)
  - ▶ Development of an adaptable import tool: From Mactime to MISP Mactime object
- Create, modify and visualise the timeline of events
  - ▶ Development of a flexible timeline system at the event level

# FORENSIC IMPORT (MISP 2.4.98)

Import analysis file

Analysis file

Choose File test.txt

Upload

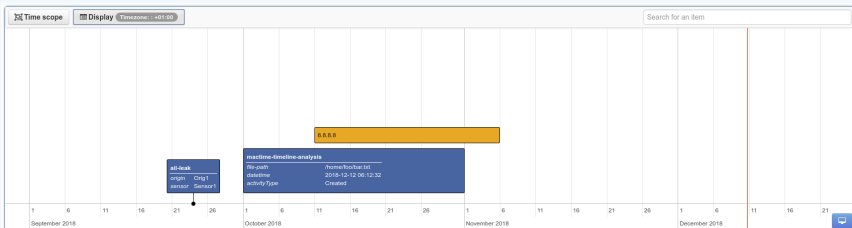
Create Objects

Select text for further analysis

Select	Filepath	File Size	Activity Type	Time Accessed	Permissions
<input type="checkbox"/>	..c.r/r/rwxrwxrwx	Xxx			00
<input checked="" type="checkbox"/>	/DCIM/111__06/_MG_0125.JPG(deleted)	3541836	Accessed	Sun Jun 02 2013 00:00:00	r/rwxrwxrwx
<input checked="" type="checkbox"/>	/DCIM/111__06/_MG_0125.JPG(deleted)	3541836	Created,Modified	Sun Jun 02 2013 15:42:32	r/rwxrwxrwx
<input checked="" type="checkbox"/>	/DCIM/111__06/IMG_0126.JPG	2255115	Created,Modified	Sun Jun 02 2013 15:42:46	r/rwxrwxrwx
<input type="checkbox"/>	/DCIM/CANONMSC/M0111.CTG	884	Created,Modified	Sun Jun 02 2013 15:44:08	r/rwxrwxrwx
<input type="checkbox"/>	/CANON_DC(Volume	0	Modified	Sun Jun 02 2013 16:33:04	r/rwxrwxrwx
<input checked="" type="checkbox"/>	/DCIM/111__06/IMG_0126.JPG	2255115	Accessed	Sat Feb 06 2016 00:00:00	r/rwxrwxrwx

- Possibility to import **Mactime** files [done]
- Pick only relevant files [done]
- MISPObject will be created [done]

# DATA VISUALIZATION (MISP ZOIBERG BRANCH)



- View: start-date only, spanning and search [dev-branch]
- Manipulate: Edit, Drag and Expand [dev-branch]
- Others: Timezone support [dev-branch]

→ For now [dev-branch], supports up to **micro-seconds** in the database and up to **milliseconds** in the web interface.