



# CÆSAIR - AN AIT SOLUTION FOR COMPREHENSIVE ANALYSIS OF CYBER THREAT INTELLIGENCE

CÆSAIR is a cyber threat intelligence solution designed to provide analytical support for security experts carrying out IT incident handling tasks on a local, national or international level.

Thanks to its powerful correlation capability, CÆSAIR provides analysts with the necessary support to handle reported incident information.

- It aggregates and examines intelligence acquired from numerous Open Source INTelligence (OSINT) feeds;
- it quickly identifies related threats and existing mitigation procedures;
- it allows to **establish cyber situational awareness** by keeping track of security incidents and threats affecting the monitored infrastructures over time.
- Visit the CÆSAIR homepage to get a detailed look! http://caesair.ait.ac.at

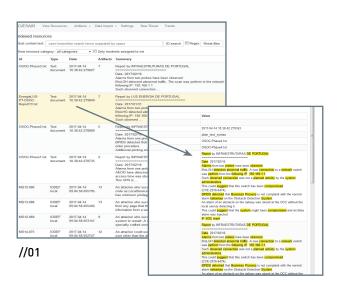
#### ADVANTAGES OF CÆSAIR

- **Reduced incident handling time**: from a multitude of imported security documents, CÆSAIR identifies the most relevant to a given one.
- Reliable basis for decision making: CÆSAIR explains how
  documents or events are connected to one another; it allows
  the analyst to select the most appropriate correlation
  method and to flexibly adjust relevance metrics.
- Answers to strategic questions on threat landscape:
  - What software products are being targeted recently? Which attack patterns is the infrastructure most vulnerable to?
  - Which vendors fix vulnerabilities faster?
- **Customizable import sources**: acquires organization's internal incident reports and a multitude of Open Source Intelligence (OSINT) feeds.
- **Interface** with existing security solutions by supporting widely adopted CTI standards: IODEF, STIX, TAXII, etc.

#### CÆSAIR APPLICATION CASES

#### IDENTIFY IMPLICIT RELATIONS BETWEEN DOCUMENTS OF DIFFERENT CATEGORIES:

- Auto-tagging of documents to identify their categories (e.g.: vulnerability, exploit, IoC) based on text content analysis.
- Discovering relations between documents from different classes: a vulnerability and its corresponding exploits; an exploit and the respective attack description; an attack and an advisory describing its possible mitigation.



## ASSISTANCE IN CREATION AND DISTRIBUTION OF ADVISORIES

CÆSAIR provides suggestions for generating warnings & advisories about:

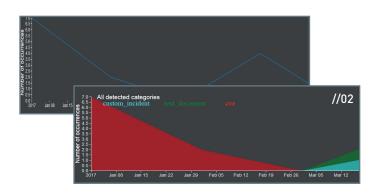
- vulnerable software & hardware products
- potential counter-measures for a threat, found as related documents with the tag "patch/fix" or "course of action".
- recipients of the warning (based on assets information provided by end users). Warnings / advisories are sent out to the recipient list, or available on-demand (including the historic data).

**//01 Identification of Related Documents:** Users can expand a related document, observe its details, and compare them against the details of the selected document

**//02 Trend Analysis:** on top it shows the overall trend considering all categories; the stacked graph shows the portion of occurrences for each document category.

## TREND ANALYSIS – KEEP TRACK OF THE EVOLVEMENT OF THE IT SECURITY LANDSCAPE BY OBSERVING:

- How the vulnerability of a software & hardware product changes over time
- How timely a software vendor releases a fix after an exploit is disclosed
- Which products on the market are most exposed to security threats
- What are the "top 10" non-trivial frequently co-occurring topics in CTI



### INTERACTION WITH EXISTING SOLUTIONS FOR THREAT AND INCIDENT HANDLING

CÆSAIR's analytical functionality can be accessed through a **friendly graphical user interface**, as well as via APIs.

- deployed it as a full-fledged standalone installation or
- run it "as a service" on data collected from third-party solutions, such as threat sharing or incident handling solutions, and/or direct its output to such solutions. This allows the integration of CÆSAIR with open-source (such as IntelMQ and MISP) or commercial products.

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