

# Best Practices in Threat Intelligence

MISP Project

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# Introduction

This book objective is to compile the best practices in threat intelligence analysis with the support of the open source threat intelligence platform called [MISP](#). The best practices described are from information sharing communities (ISAC or CSIRT) which are regularly using MISP to support their work and sharing practices.

# Best Practices

## Improving Analysis



Improvement of the analysis process can range from a simple notification of a false-positive or the correction of a typographic error, all the way up to a complete competitive or counter analysis of the original analysis.

A common difficulty in threat intelligence is to improve existing analyses and especially how to do it efficiently. One of the main questions to ask is: what will be the target audience of the improved analysis and the objective thereof?

1. Informing the original analyst/author (e.g. a security vendor or a CSIRT) about a specific mistake or error which needs to be corrected.
2. Improving an existing analysis by performing a complementary analysis or review which will be shared to and used by another group (e.g. a specific constituent, or a team within your organisation or a member of an ISAC, etc).

In the first case, MISP includes a mechanism to propose changes to the original creator, a mechanism we refer to as proposals. By using proposals, you can propose a change to the value or the context of an attribute (such as a typographic error in an IP address, missing contextual information, type of the information, the category or the removal of an IDS flag). The proposal will be sent back to the original author who can decide to accept or discard it.

The advantages of using the proposal system include the lack of a need to create a new event as well as the process itself being very simple and fast. However, it assumes that the party providing the improvements is willing to lose control over the proposed data. This is pretty efficient for small changes but for more comprehensive changes, especially those that include non-attribute information such as galaxy clusters or objects, the event extension is more appropriate.

Apart from being more suitable for more comprehensive changes, the second scenario is also a great fit for the extended event functionality, allowing users wanting to provide additional information or an alternate view-point with the opportunity of creating a self-contained event (which can have its own custom distribution rules) that references the original analysis. This information can be shared back to the original author or kept within a limited distribution scope such as a specific sector, a trust group or as internal information for the organisation providing the additional information.



For more information about the extended event functionality in MISP, the blog post [Introducing The New Extended Events Feature in MISP](#) includes a lot of details.

# What To Share or What Counts As Valuable Information?



Valuable information is a moving concept and highly depending of the goal of the users sharing and/or using the information. A valuable information can also evolve following the capabilities of an organisation.

Contribution comes in various shapes and sizes.

Information which are often distributed within sharing communities are the following:

- Analysis report of a specific threat (such as security vendor report, blog post) which can be open source intelligence or limited distribution
- Enhanced analysis of an existing report (such as data qualification, competitive or counter analysis)
- A post-mortem analysis of an incident
- Additional information about existing or known threats (such as adversary techniques, new malware samples or complementary discoveries)
- False-positive or false-negative reporting
- Asking for contribution or support from the community (such as "have you seen this threat?" or "do you have more samples?")



By having a look at [the object templates](#) or the [MISP attribute types](#), this can help you to discover what it's actively shared within other communities. If a type or an object template is not matching your data model, you can easily create new ones.



When asking for the support of the community, using a specific taxonomy such as [collaborative intelligence](#) to express your needs might help everyone and improve automation.

# Authors and Contributors

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# Glossary

## **ISAC**

Information Sharing and Analysis Center

## **MISP**

MISP - Open Source Threat Intelligence Platform & Open Standards For Threat Information Sharing