

Community Introduction **Activities Contact** 



### **Mission Statement**

The EE-ISAC was launched in December 2015 to improve the resilience and security of the European energy infrastructure. We do so through trust-based information sharing and by enabling a joint effort for the analysis of threats, vulnerabilities, incidents, solutions and opportunities. EE-ISAC offers a community of communities to facilitate this proactive information sharing and analysis, allowing its members to take their own effective measures









### **Technical Task Forces**



#### **Threat Landscape**

# Threat Intelligence & Incident Analysis-Response

#### Goals

- identify threats artefacts and malicious activities
- detect analysis and subsequent phases of incident handling
- · share information in quasi-real-time

#### **Activities & Updates**

- platform connection to Eurocontrol increased +50.000 new entries
- supervision of the system to ensure efficiency and reliability
- update of user access credentials on the system and VPN infrastructure

#### Coordinator

Siemens (Marcel)

#### **Participants**

- Enel (Massimo)
- Brandenburg University (Dmytro Cherkashyn)

#### Goals

- define and edit annual threat landscape document for the energy sector
- collect feedbacks on threats and emerging scenarios from Members

#### **Activities & Updates**

insights into top cyber tends and attacks against energy sector

#### Goals

- establish threat modeling standard
- build capabilities and new competences within the EE-ISAC and in partnership with other ISACs/ENISA

#### **Activities & Updates**

- edit annual threat intelligence publication
- edit annual incident response publication
- cooperate with other ISACs and expert communities to define common practices

#### Coordinator

ENISA (Konstantinos Moulinos)

#### **Participants**

Applied Risk (Jalal Bouhdada)

#### Coordinator

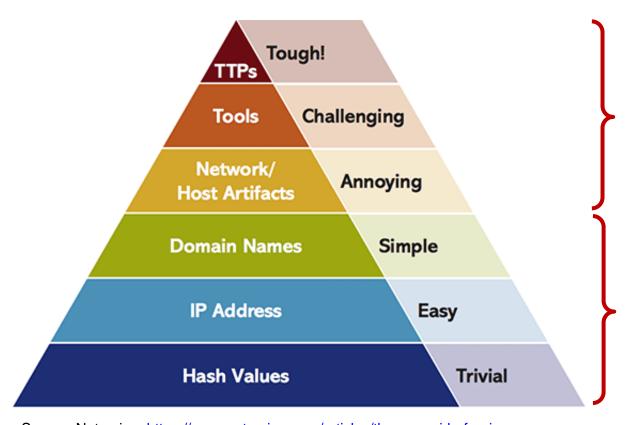
• E.ON (Alexander Harsh)

#### **Participants**

Brandenburg University (Jugersa Smaja)



# **Digital Information Sharing**







Source: Netsurion, <a href="https://www.netsurion.com/articles/the-pyramid-of-pain">https://www.netsurion.com/articles/the-pyramid-of-pain</a>



**Physical** 

**Digital** 

**Topics** 



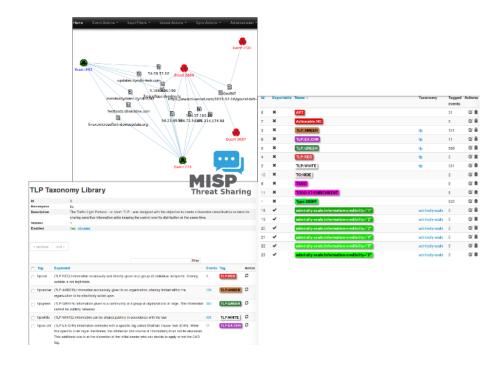
### **MISP**

#### MISP is a de-facto standard:

**Physical** 

- An efficient IoC and database about malware samples, incidents & attackers
- Automatic correlation finding relationships between attributes & indicators





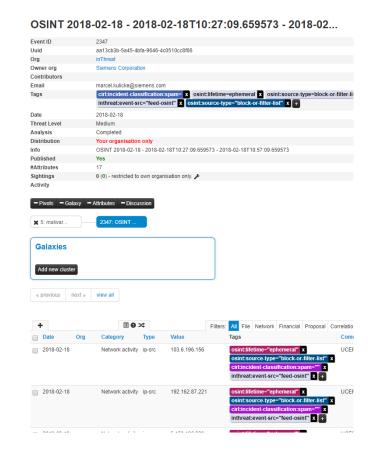






# MISP - How does the sharing look like?

- MISP events are encapsulations for contextually linked information
- MISP attributes initially started with a standard set of "cyber security" indicators.
- MISP objects are attribute compositions describing points of data
- MISP galaxies granularly contextualize, classify and categorize data based on threat actors, preventive measures or tools used by adversaries.
- MISP sightings allow a further classification based on the amount of hits.
- MISP tags allow for further sorting and clustering
- MISP taxonomies allow for further classification along national or international standards







## White Papers 2020

#### **Threat Intelligence Management**

EE-ISAC members believe that Threat Intelligence can play a very important role in both, preventive and reactive cyber security. Considering the additionally complexity arising from Industrial Control System (ICS) Attack Vectors, the energy sector, more than other sectors, seems to depend even more on good Threat Intelligence Management. This paper explicitly addresses the needs of small and medium enterprises (particularly, these are enterprises with a headcount of less than two thousand employees and cyber security departments with a headcount of one to five) in the energy sector, planning to use Threat Intelligence to improve detective and reactive cyber security controls in their organisation.



Alexander Harsch, Marcel Kulicke, Kostantinos Moulinos, Andreas Seiler, Christina Skouloudi, Antigone Zisi (2020)

#### **Cyber Security Incident Response**

EE-ISAC has gathered a synthesis of experience from their membership to offer some useful guidance, especially to assist smaller businesses to prepare and respond adequately to cyber incidents. In recent years several incidents have targeted critical infrastructures, including the energy sector. As devices used in Operational Technology (OT) facilities trust each other and their users, one compromised device can allow a compromise to the whole system. With an increasing likelihood of incidents, and both small and larger organisations being targeted, it is essential to prepare incident response capability in order to safeguard society's dependency on energy. Regulations such as the Network and Information Security (NIS) Directive are now enforcing the requirement for an Incident Response capability. This document aims to offer some assistance in building that capability.







### Let's discuss further

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