

CTI Information Sharing

Active supporters' contributions

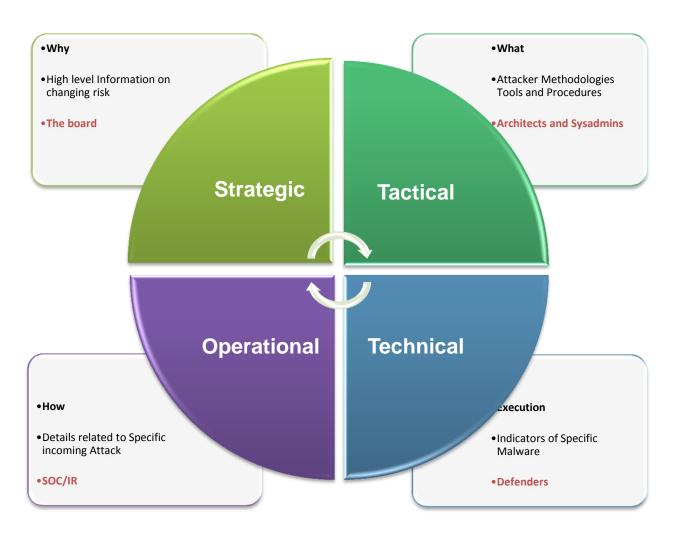
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Cyber-Threat Information

 Cyber-threat information is any information that can help an organization to identify, assess, monitor, and respond to cyber-threats. Examples of cyber-threat information include indicators (system artifacts or observables associated with an attack), TTPs, security alerts, threat intelligence reports, and recommended security tool configurations.

Cyber Threat Intelligence Subtypes





Cyber Information Sharing

 Information sharing means 'the exchange of a variety of network and information security related information such as risks, vulnerabilities, threats and internal security issues as well as good practice'

(Robinson & Disley, 2010).

https://www.enisa.europa.eu/publications/cybersecurity-information-sharing



CTI Sharing Driving Factors Agency

Legal and Regulatory Drivers for Sharing CTI

- US –EO Improving Critical Infrastructure Cybersecurity
- EU Network and Information Security (NIS) Directive
- Canadian Cyber Threat Exchange
- EU GDPR General Data Protection Regulation

Economic drivers

- Empower decision-makers to reduce risks
- Reduce remediation cost from Data Breaches



* European Network and Information Sharing Actors Security Agency * European Network and Information Sharing Actors * European Network and Information Sharing Actors





Standards for Formatting CTI Information



CTI Information Sharing Initiatives

Europe	US
Abusehelper (https://github.com/abusesa/abusehelper , Community add-ons https://bitbucket.org/ahcommunity/)	Collective Intelligence Framework (http://csirtgadgets.org/collective-intelligence-framework/)
EclectIQ (https://www.eclecticiq.com/)	CRITS (https://crits.github.io/)
IntelMQ (https://github.com/certtools/intelmq)	Soltra (https://www.soltra.com/en/)
Megatron (https://github.com/cert-se/megatron-java)	
MISP (https://github.com/MISP/MISP)	
N6 – CERT.PL	
Warden (https://warden.cesnet.cz//en/index)	

CTI Information Sharing Barries

Operational Barriers

- Lack of trust between participants
- Unavailability of knowledgeable, experienced employees

Technical Barriers

- Lack of common standards
- Large variety of Taxonomies and used protocols
- Additional technical resources required

Financial Barriers

- Additional costs for infrastructure, data feeds and human resources.
- No direct return of investment

Legal/Policy issues

- Lack of General Security agreement
- Information sharing depends highly on local / legal requirements.

Common questions related to Information Sharing

- Who should share information with?
- Is it relevant, adequate, accurate and delivered on time?
- Is delivered via secure channels?
- What Information sharing mechanisms are going to be used?
- Are shared information able to be consumed by all parties?
- How shared information can be used?

"one organization's detection to become another's prevention"

