

What is CACAO?

- Collaborative Automated Course of Action Operations for Cyber Security
 - A standard that defines actions for threat response, including
 - Creation of those actions
 - Distribution of those actions across systems
 - Monitoring of those actions and their results
 - It includes documenting and describing the steps needed to <u>prevent</u>, <u>mitigate</u>, <u>remediate</u>, and <u>monitor</u> responses to a threat, an attack, or an incident
- What it is not...
 - This is not a standard for sharing arbitrary content or data
 - This is not about documenting an incident or indicators of compromise

Why CACAO?

Threats

- Threat Actors and Intrusion Sets are advancing
- Number of attacks are increasing / Attack surface is growing

Defense

- Manual, reactive, and siloed
- Many different groups inside an organizations are part of the response
- No easy way to share threat response expertise
- Organizations need to respond in machine relevant time across multiple coordinated systems
- ISACs and ISAOs could disseminate solutions with Threat Intelligence

Core Requirements

- Multiple Actions
- Sequencing of Actions
- Temporal Logic
- Conditional Logic
- System Integration

- Reporting
- Versioning
- System Targeting
- Security
- Transport

Collaboration Example - Industry Wide Response

CACAO Tree - Malware PandaX

Signed by FS-ISAC

