

Cyber Threat Intelligence: Technical Committee (CTI TC)

Monthly Meeting – December 15, 2016 Session #1 & Session #2



Agenda

Welcome and Opening Remarks

Richard Struse

Interoperability

Richard Struse

Status & Way Forward

Face-to-Face Meeting: S.F. Area

Richard Struse

January 17th & 18th - @ Google

Meet-up - Jan. 17 - 6:00 p.m. - 9:00 p.m.

Slack Channel: #2017-01_f2f

STIX

John Wunder

Cyber Observables

Ivan Kirillov & Trey Darley

TAXII

Bret Jordan & Mark Davidson



STIX Update



STIX - RC4 Status

- Changes made since RC3
 - Bundle was flattened
 - Versioning was simplified
 - Timestamp precision removed (ballot pending)
 - Added last_seen to campaign and intrusion set
- Pending topics
 - Timestamp precision (ballot pending, please vote)
- Next Steps
 - RC4 released on 12/19, 1 week comment period
 - CSD ballot open



STIX 2.1 - Plan

- Join mini-groups on Slack to create proposals for F2F
 - Goal is to have proposals for F2F
- Proposals should include:
 - Normative text
 - Examples
 - Important decisions / alternatives (if applicable)
 - Open questions
- Proposals are due January 9



STIX 2.1 - Topics

- Active Now
 - Malware
 - Infrastructure
 - Location
 - Confidence

- Pending
 - Incident/Event
 - COA/Playbook
 - Internationalization
 - Intel Notes
- Miscellaneous
 - Org chart capability in identity
 - Missing relationships
 - Etc.



Cyber Observables Update



Specification Changes

Cyber Observables Core

- For capturing observed string encoding, removed _bin property (sibling of _enc)
 - Used for capturing the original binary representation of the observed string when it cannot be losslessly represented in Unicode

Patterning

- Added corresponding Observation Operator for "OR" equivalent of ALONGWITH
 - Originally called "OTHERWISE"
- Based on community feedback, renamed ALONGWITH/OTHERWISE to AND/OR
 - ([file:name = 'foo.dll'] AND [win-registry-key:key =
 'HKEY_LOCAL_MACHINE\\foo\\bar']) OR [process:name = 'fooproc' OR
 process:name = 'procfoo']
- Added prefix-based syntax around several constants for discerning between values
 - Binary: b'ABI='
 - Hex: h'0012'



STIX 2.1 & Cyber Observables I

- For STIX 2.1, there are a number of possible additions to Cyber Observables
 - New Objects
 - New Object Extensions
 - Non-Object Entities
- We need input from you (the community)
 - Help us determine what makes it into STIX 2.1 for Cyber Observables
 - Do you have any pressing needs that aren't met by the current set of Objects?
 - Are there other things that you'd like Cyber Observables to cover?
 - Put together and submit a proposal around something you wish to add



STIX 2.1 & Cyber Observables II

 These are some initial thoughts on possibilities for Cyber Observables in STIX 2.1

Entity Type	Entity	Relative Complexity & Difficulty
New Objects	Device	
	- Mobile Device Ext.	
	- Mobile Phone Ext.	
	- Virtualization Ext.	Unknown
	Operating System	Unknown
	WHOIS	Low
	SMS	
	- MMS Ext.	Medium
	Network Share	Medium
New Object Extensions	Android APK (File Object Ext.)	Unknown
	Apple iOS (File Object Ext.)	Unknown
	EXT 3/4 (File Object Ext.)	Unknown
	Document Metadata (File Object Ext.)	Medium
	HTTP Response (Network Traffic Ext.)	Medium
Other Entities	Actions	High



TAXII Update



TAXII

- Draft 3 contains:
 - Support for Collections (support for Channels will be in a future release)
 - HTTPS
 - DNS SRV Records
 - Discovery API
 - API Roots (Trust Groups)
 - Content Negotiation



TAXII

- Plan to release Draft 4 / RC 1 before end of December
- Hope to have a CSD before the F2F



A & **D**

