Modeling in STIX

How to tell what goes where





Resources



- The first place to go: http://stixproject.github.io/
 - Documentation on fields and types mean
 - How to use cross-cutting capabilities
 - Examples of how to map common use cases

The second place to go: cti-users@lists.oasis-open.org



Disclaimer



- Intel is an interpretive space, so don't expect 100% "correct answers" all the time
- The "answer" always depends on context
- This will NOT cover all possible things to consider
 - Just some of the most common ones we run into
- STIX does NOT currently cover everything you may want to map
 - It is still evolving to meet the community's needs







You have some observations of things that are probably malicious.

- Are you providing a history of malicious behavior?
 - Map your content into appropriate Incident constructs
- Are you wanting to convey detection guidance of what to look for?
 - Map your content into appropriate Indicator constructs
- The most common answer is Indicator





Threat Actors and Campaigns



You have some names and grouping of adversary activity.

- Look for identity info (names, places, etc.)
 - Means a Threat Actor
- Look for coordinated patterns of attacks against common targets and/or with a common purpose
 - Means a Campaign
- Sometimes you can have both
- Other times, reports use them interchangably



Identity







You have identity information about victim targets or threat actors

- How far down the Identity rabbit hole do you go?
 - Do you have to use the CIQ extension?
 - Understand the use case for the consumer
- Granularize to support better pivoting
 - Generalize from specific targeting in incidents to general targeting in TTP VictimTargeting.
- Dealing with sensitivities around victim identity information
 - Abstractions
 - Data Markings







You have TTP info as it relates to indicators, incidents, actors, or campaigns.

- Always use separate TTPs to represent separate concepts
- Consider using generalized TTPs for the pattern itself alongside more specific TTPs as used by particular actors
- Abstraction enables potential for shared community knowledge





Courses of Action



Your content contains some sort of descriptions of actions by victims/defenders

- Distinguish between Indicators (detection) and COAs (prevention/response)
 - Understand the use case for the consumer
- Make sure to recommend COAs at the correct layer of abstraction



Questions?

What do you need help modeling?



What confuses you about STIX?

