

BIWEEKLY FORUM MEETING

Agenda

- □ RSA Debrief (Brule)
- □ OASIS Transition (Ensign)
- □ LDD Updates (Romano)
- Actuator Profile Subgroup Report (Romano)
- STIX/OpenC2 Subgroup Report (Verma)

RSA Debrief

TC Launch Timeline

Draft Charter

- Statement of work, scope, and other requirements defined in TC Process
- Submitted by Convener to OASIS

Call for Comment

- 14-day review by OASIS membership at-large
- Comments are submitted to OASIS-hosted mailing list

Convener Call

- Convener, TC Proposers review member comments, finalize charter
- OASIS convenes within 2 to 5 days of close

Comment Log & Final Charter

• Due to TC Admin by 28th day after charter submission

Call for Participation

 Announcement from OASIS minimum 30-day before first meeting (teleconference) or 45-days (face-to-face)

1st TC Meeting

• Official TC launch; first order of business is election of chair/co-chairs



TC Launch Timeline

- Timeline for OASIS actions:
 - Call for participation sent
 - Reminder of deadline to join with voting rights (approx. 10 days before first mtg)
 - Call for nominations for chair (approx. 8 days before)
 - Last day to join with voting rights (7 days before 1st meeting)
 - List of eligible voters to mailing list
 - Inaugural meeting



TC Resources when C4P is sent

- Members-only TC web site / collaboration tools ("Kavi")
 - Only OASIS members may view
- Public TC web site (subset of Members-only)
- TC mailing list
 - Publicly archived
 - Only TC Members may post
 - Only TC Members and Observers are subscribed (automatically)
- TC comment list (non-member feedback to TC)
- TC wiki*
- JIRA issue tracking system*
- Version control system (SVN or GitHub)*

*Created upon request



Language Description Document

- Updated the Target Data Model
- □ Removed and updated Actions (33)
- Incorporated many suggested changes
- Reorganized Section 3: OpenC2 Language
 - OpenC2 Command
 - OpenC2 Response
 - OpenC2 Alert

RESPONSE Format

```
RESPONSE (
SOURCE (
   type = <data-model>:<ACTUATOR_TYPE>,
   <actuator-specifier>
[CMDREF = <COMMAND_REFERENCE>,]
STATUS = <STATUS CODE>,
[STATUS TEXT = <STATUS TEXT>,]
RESULTS (
   <DEFINED VALUE>
```

Actuator Profile Subgroup Report

STIX/OpenC2 Subgroup Report

Attendees

- □ General Dynamics Jason Romano, Joyce Fai
- NSA Joeph Brule, Dave Kemp, Kevin Miller, Joan Peterson
- □ Cisco − Jyoti Verma
- □ Symantec Bret Jordan
- Looking Glass Allan Thomson, Todd Beine
- Cyber Phantom Sourabh
- sFractal Duncan Sparrel
- DHS Juan Gonzales
- □ JHAPL Mark Moss
- Mitre Sean Barnum, Applebaum
- Soltra Aharon Chernin
- □ ...

History

- Formed a couple of months ago to develop reference implementations for OpenC2 in STIX
- Started off with XML developed STIX COA in XML for 1.2
- Moved to JSON following STIX 2.0

What we have achieved

- □ Influenced OpenC2 with decisions from CTI-TC
 - JSON MTI, Cyber Observables etc.
- Socialized and influenced CTI-TC about using OpenC2

Next Steps

- Short term Complete STIX COA representation for STIX 2.1
 - Ongoing work <u>here</u> to be done before OpenC2 becomes a TC
- Longer term Interoperability topics between STIX and OpenC2 - example Playbook

Takeaways from CTI-TC F2F

Playbook

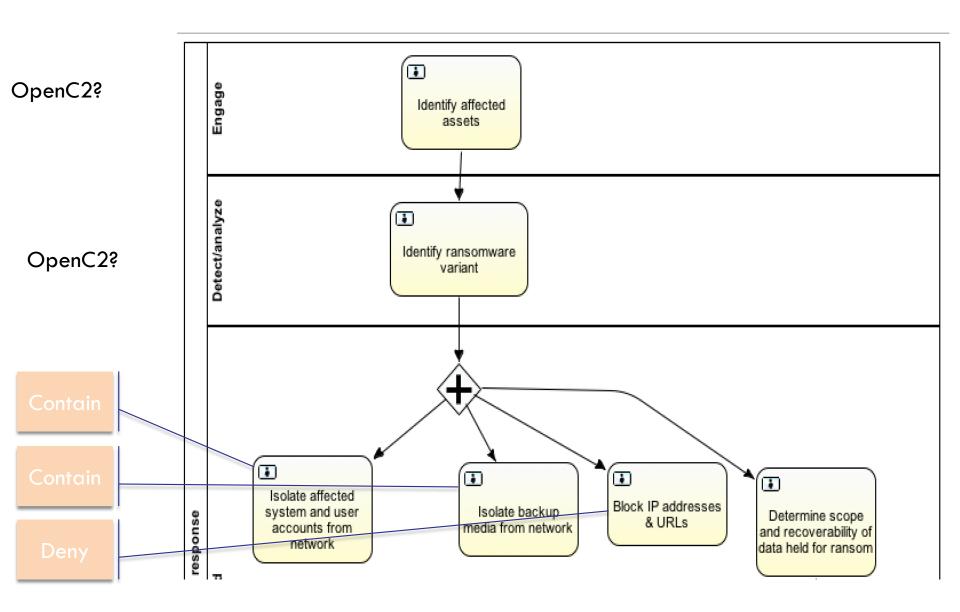
- A Playbook represents a workflow for incident response. Following are the characteristics of a playbook:
 - Each step of the playbook can either be manual or automated.
 - Playbook has synchronous or asynchronous steps
 - Every step in the playbook may depend on the response of the earlier step - for sequential steps
 - Playbooks can be very long lived
 - The steps of a playbook could be related to each other out of order

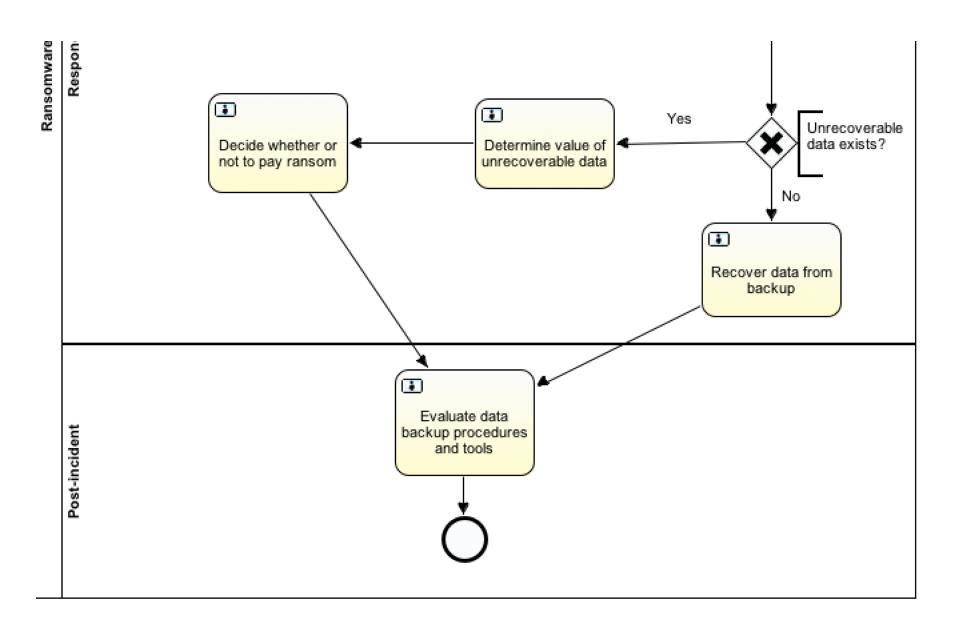
Playbook definitions

- "Playbook is a named sequence of coa that can be referred to by one or more SDOs (campaign, sighting,etc) where the playbook is a top-level SDO that has its own object lifecyle like other objects"
- "Playbooks will contain a series of COAs (manual, process, automated) that have conditional logic and temporal logical associated with each one. Do X then if result Y do Z followed by A and B within 1 day"

Examples

Ransomware





Open Questions

- How to handle interoperability
 - Participate in mini groups of CTI-TC Example Playbook
 - Handled by CTI-TC interoperability sub-committee headed by Allan
 - As part of OpenC2 TC?
 - Liaison group in OASIS?