

#### BIWEEKLY FORUM MEETING

### Agenda

- Welcome New Members
- □ OASIS Transition Q&A
- OASIS Charter, Non-Normative Document
- May 19<sup>th</sup> Face-to-Face Agenda Topics
- Actuator Profile Subgroup Report
- □ Upcoming Events of Interest

### OpenC2 TC Charter

□ A draft TC charter has been submitted to establish the OASIS Open Command and Control (OpenC2) Technical Committee. In accordance with the OASIS TC Process Policy section 2.2: (<a href="https://www.oasis-open.org/policies-guidelines/tc-process#formation">https://www.oasis-open.org/policies-guidelines/tc-process#formation</a>) the proposed charter is hereby submitted for comment. The comment period shall remain open until 23:59 UTC on 27 March 2017.

## May 19th Face to Face

#### Agenda

- Prototype Implementations
- JAEN and Data Modeling
- OASIS Transition
- Implementation Considerations
- Future of the "Forum"
- Cyber Security Considerations

## Actuator Profile Subgroup Update

### Actuator Profile Update

- Current LDD is device or technology centric
  - Endpoint
  - Network
  - Process
  - Redundancy in profiles (example, host based, perimeter and network firewalls)
- Proposal: Actuator Profiles should be functional
  - Firewall specifiers and modifiers apply to both network and host based firewalls
  - Use of actuator specifiers to identify a particular firewall if needed
- General Agreement at the March 9 2017 Firewall Profile teleconference

### Proposed List

(Based on industry feedback. Not in priority order)

- Directory Service
- Email
- Firewall
- □ Forensic
- Generic
- □ Informative
- Investigative
- Network AccessControls

- Reputation
- Router
- Sandbox
- SIEM
- Threat Intel
- Ticketing
- Virtualization
- Web Proxy

# Proposed Definitions, page 1 of 2

(Gleaned from Slack)

<u>Туре</u>	<u>Description</u>
compute-platform	any general purpose computing device, be it user-oriented (e.g., desktop, laptop, mobile), infrastructure-oriented (e.g., server), or special-purpose (e.g., loT devices)
malware-detection	Provides detection and notification of malware (e.g., viruses, ransomware)
malware- remediation	Provides removal of malware and restoration of secure system state
malware-analysis	Performs static (e.g., code inspection) and dynamic (e.g., detonation chamber) analysis and characterization of suspected malware
traffic-capture	Performs full $/$ raw capture of network traffic (i.e., pcap)
traffic- characterization	Performs traffic metadata capture (e.g., netflow)
intrusion-detection	Network- or host-based intrusion detection
intrusion-prevention	Network- or host-based intrusion prevention

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packet-filtering	Traffic filtering based on packet / protocol characteristics (e.g., 5-tuple)
packet-routing	Traffic routing based on packet / protocol characteristics (e.g., 5-tuple)
content-inspection	Inspection of network traffic at the application level (e.g., email content scanning); may require "break & inspect" capabilities
content-filtering	Traffic filtering based on content characteristics (e.g., email content); may require "break & inspect" capabilities
content-routing	Traffic routing based on content characteristics (e.g., email subject, attachments); may require "break & inspect" capabilities
network- characterization	Determination of network characteristics through a mixture of techniques that may include active scanning and passive traffic and host characterization
vulnerability- scanning	Identification of network and/or software vulnerabilities through scanning

#### 'Red on Black'

- Human Interaction (Alarm)
  - Means to involve humans (either in the loop or on). Combine email, ticketing, SMS, etc.?
- Access Controls
  - Means to elevate or retract privileges to the system, files or whatever. Combine Network Access Controls and Directory Services?
- Task Analytics
  - Means to analyze data to gain information. Combine Informative, Investigative, Reputation, Forensic and Threat Intel?
- Generic; Equivalent to 'User Defined'?
- Combine Sandbox and Virtualization?
- Are Firewall, Router, Sandbox, SIEM and Web Proxy OK?

### More Red on Black

<u>Туре</u>	Description	Questions	
compute-platform	any general purpose computing device, be it user-oriented (e.g., desktop, laptop, mobile), infrastructure-oriented (e.g., server), or special-purpose (e.g., loT devices)	Is this an actuation function?	
malware-detection	Provides detection and notification of malware (e.g., viruses, ransomware)	Are malware detection and analysis separate functions?	
malware-analysis	Performs static (e.g., code inspection) and dynamic (e.g., detonation chamber) analysis and characterization of suspected malware		
malware- remediation	Provides removal of malware and restoration of secure system state	Is this a single function?	
traffic-capture	Performs full / raw capture of network traffic (i.e., pcap)	Are these separate	
traffic- characterization	Performs traffic metadata capture (e.g., netflow)	functions?	
intrusion-detection	Network- or host-based intrusion detection		
intrusion-	Network- or host-based intrusion prevention		

### Even More Red on Black

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packet-filtering	Traffic filtering based on packet / protocol characteristics (e.g., 5-tuple)	Distinct from Firewall?
packet-routing	Traffic routing based on packet / protocol characteristics (e.g., 5-tuple)	Distinct from Router? Why limit it to Layer 3?
content-inspection	Inspection of network traffic at the application level (e.g., email content scanning); may require "break & inspect" capabilities	Distinct from Analysis?
content-filtering	Traffic filtering based on content characteristics (e.g., email content); may require "break & inspect" capabilities	
content-routing	Traffic routing based on content characteristics (e.g., email subject, attachments); may require "break & inspect" capabilities	
network- characterization	Determination of network characteristics through a mixture of techniques that may include active scanning and passive traffic and host characterization	Distinct from Traffic characterization?
vulnerability-scanning	Identification of network and/or software	Subset of Configuration

### Status/ Way Forward

- First Generation Firewall profile underway
- □ Router profile pending
- Identify and prioritize Other Actuator Profiles

### Upcoming Events of Interest

- openc2 and ocas at EEF17 in San Francisco (March 23)
  Duncan Sparrell <a href="http://www.erlang-factory.com/sfbay2017/duncan-sparrell.html">http://www.erlang-factory.com/sfbay2017/duncan-sparrell.html</a>
- IACD Community Day (March 23)
  <a href="http://www.cvent.com/events/iacd-community-day/custom-20-day/custom-20-d4bb79bacefd4c1798ede27d28dc10dc.aspx">http://www.cvent.com/events/iacd-community-day/custom-20-d4bb79bacefd4c1798ede27d28dc10dc.aspx</a>
- OpenDXL Kickoff (April 5) Neal Z on Panel
- □ EICC in Munich (May 9-12) Joe B and a TBA briefer will brief OpenC2.
- OASIS Borderless Cyber NYC (June 21-22)
  (<a href="http://us17.borderlesscyber.org/en/">http://us17.borderlesscyber.org/en/</a>)