



BIWEEKLY FORUM MEETING

16 March 2017

Agenda

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

OpenC2 TC Charter

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- 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: (<https://www.oasis-open.org/policies-guidelines/tc-process#formation>) the proposed charter is hereby submitted for comment. The comment period shall remain open until 23:59 UTC on 27 March 2017.

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May 19th Face to Face

Agenda

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Actuator Profile Subgroup Update

Actuator Profile Update

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- 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)

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- Directory Service
- Email
- Firewall
- Forensic
- Generic
- Informative
- Investigative
- Network Access Controls
- Reputation
- Router
- Sandbox
- SIEM
- Threat Intel
- Ticketing
- Virtualization
- Web Proxy

Proposed Definitions, page 1 of 2

(Gleaned from Slack)

<u>Type</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., IoT 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’

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- 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

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<u>Type</u>	<u>Description</u>	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., IoT 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 functions?
traffic-characterization	Performs traffic metadata capture (e.g., netflow)	
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

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

Upcoming Events of Interest

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- openc2 and ocas at EEF17 in San Francisco (March 23) <http://www.erlang-factory.com/sfbay2017/duncan-sparrell.html>
- IACD Community Day (March 23) <http://www.cvent.com/events/iacd-community-day/custom-20-d4bb79bacefd4c1798ede27d28dc10dc.aspx>
- OASIS Borderless Cyber NYC (June 21-22) (<http://us17.borderlesscyber.org/en/>)