

Call to Order and Introductions

The OASIS OpenC2 Technical Committee (TC) Meeting was conducted 20 September 2017, 11:00 am Eastern Time (ET). A mirror OpenC2 TC meeting was also conducted at 21:00 pm ET via WebEx. The presentation package is posted on the OpenC2 TC site [OpenC2 TC 20 September 2017 Presentation](#).

A total of thirty six members and observers attended the 1100 and the 2100 meeting. The list of attendees follows at the end of the minutes.

There were twenty five voting members in the morning meeting, allowing us to achieve quorum (19 needed) at the 1100 ET meeting. Eight members attended the 2100 ET meeting, with two members unique to the 2100 ET meeting.

A total of 27 voting members attended between the two meetings.

Meeting Agenda

Time	Topic	Presenter
11:00 – 11:10	Call to Order and Roll Call	Joe Brule
	Approve Minutes of Previous Meeting	Joe Brule
	Announcement <ul style="list-style-type: none"> • Press Release • Borderless Cyber • CTI F2F • Users Council Briefing 	
11:10 – 11:25	OpenC2 Subcommittee Reports	
	Implementation Considerations	Bret Jordan, David Lemire
	Actuator Profile	Dave Kemp, Jyoti Verma
	Language	Jason Romano, Duncan Sparrell
11:25 – 11:35	Face to Face Tiger Team	Duncan Sparrell
11:35 – 11:50	New Business	
	Actuator Profile Data Call	Jyoti Verma
11:50 – 12:00	Wrap Up	
	Query for New Business	Joe Brule
	Action Item Review	Joyce Fai
12:00	Adjourn	

Approve Minutes

The motion to accept the minutes of the 16 August 2017 OpenC2 TC Meeting was carried with provisional approved and no objections at the 1100 meeting where we reached quorum. The motion to approve the minutes at the 2100 meeting was also carried, with no objections.

Announcements

OASIS and First will be co-hosting Borderless Cyber Security in Prague 6-8 December 2017. OpenC2 will be presented at an upcoming OASIS Users Council. The CTI TC Face to Face will conflict with the next OASIS OpenC2 TC on 18 October 2017, 1100 ET

	<p>meeting. Members who may be affected by this conflict are encouraged to attend the 18 October 2017, 2100 ET meeting.</p>
OpenC2 Subcommittee Reports	<p>Each subcommittee provided a brief out on their activities, progress, plans and meeting schedules. We greatly appreciate the efforts of the subcommittee chairs and our members who have joined these efforts.</p>
Implementation Considerations SC	<p>The second IC-SC meeting was held on 6 September 2017 with nine participants. The subcommittee discussion was focused on transport. The intent is for fast, authenticated, ubiquitous transport but to avoid multiple transports per class of device. Will we have interoperability issues if there are too many transports? High level requirements were proposed with the general consensus around two approaches, HTTPS-based and STIX/TAXII-related. Publish and subscribe is of interest but a lower priority than HTTPS.</p> <p>The IC-SC meets the 1st Wednesday of each month at 1300 ET/ 1700 UTC. IC-SC meetings will be announced via OASIS email and on the #meetings and #implementation Slack channels. The next meeting is 4 October 1300 ET followed by a meeting on 1 November. WebEx details can be found in the corresponding OpenC2 TC calendar events.</p>
Actuator Profile SC	<p>Ms. Jyoti Verma provided the brief out of the Actuator Profile Subcommittee for both the 1100 and 2100 ET sessions.</p> <p>The Actuator Profile SC plans to conduct a data call to product vendors and users for the set of applicable actions and targets they will support. The Actuator Profile SC is in the process of OASIS-ifying existing works in progress: Packet Filter Firewall, Router Profile, and Software Defined Network Controller Profile.</p> <p>Behaviors and any gaps in the language will be identified through use cases. The Actuator Profile SC is actively seeking TC members' use cases. The question was raised as to whether threat intelligence platforms are on the list of actuator profiles to be developed. Threat intelligence platforms are on the list in addition, the Actuator Profile subcommittee is looking for input from the TC as to which actuator profiles should be taken up first as work items.</p> <p>There has been a one major change to the OpenC2 Language Specification. It was determined that applicable action-target pairs for a particular actuator functional capability will be contained in an Actuator Profile and not in the OpenC2 Language Specification.</p> <p>The Actuator Profile subcommittee meets on the 2nd and 4th Wednesday of each month at 1300 ET/ 1700 UTC. Subcommittee meetings will be announced via OASIS email and on the #meetings and #actuator profile Slack channels. The next meeting is 27 September 1300 ET followed by meetings on 11 and 25 October. WebEx details can be found in the corresponding OpenC2 TC calendar events.</p>
Language SC	<p>Mr. Jason Romano provided the Language Subcommittee (SC) brief out at the 1100 ET</p>

session. Mr. Duncan Sparrell provided the brief out at the 2100 ET session. The Language Subcommittee has adopted an operating tempo of weekly meetings on Tuesdays, 13:00 ET. Language SC meetings were held on 22, 29 August, 5, 12, and 19 Sept.

The OpenC2 design principles were reviewed in the Language Subcommittee meetings. The update of the Language Specification is underway on Google Docs. The OpenC2 Glossary has been established in GitHub. The glossary will contain definitions for the vocabulary used in the OpenC2 specifications or use cases. A Wiki has been established to capture open issues and the key decisions made during the development of the OpenC2 Language Specification. Google Docs will also be set up to discuss and resolve issues.

Use cases are an important aspect of strengthening the language. We are not picky on how they are done (e.g., Wiki, Google Docs, high level story).

Future agenda items include getting agreed to changes into the working draft of the Language Specification, adding content to the Glossary, and adding to the repository of use cases.

The Language Subcommittee meets every Tuesday of each month at 1300 ET/ 1700 UTC. Subcommittee meetings will be announced via OASIS email and on the #meetings and #language Slack channels. The upcoming meetings are 26 September, and 3, 10, and 17 October at 1300 ET. WebEx details can be found in the corresponding OpenC2 TC calendar events.

Face to Face Tiger Team

Mr. Duncan Sparrell stated that all members of the TC should have gotten a survey on Face to Face meetings. The email may be in your spam folder. If that is the case another survey can be sent to another email address. A suggestion was made to consider multi-site video teleconferencing as an option.

New Business

Actuator Profile Data Call

Mr. Jyoti Verma introduced the Actuator Profile Data Call. The intent of the data call is to collect from users and producers of actuators their applicable OpenC2 commands. We are requesting the TC members to go through the Language Specification to see which actions, modifiers, and targets apply. If the OpenC2 definition of an action differs from your definition, please note it. For each actuator capability, identify any actuator options or specifiers.

- Which Actions from the Language Specification will be used?
- Which Targets from the Language Specification do you act upon?
- What Specifiers do you need?
- What options are available in your product?

The Actuator Profiles are separate specifications and will call out the applicable action-target pairings. If you have multiple products, respond with one worksheet for each product. The data call will help the Actuator Profile Subcommittee prioritize the

development of actuator profiles.

There is list of proposed actuator profiles in the Wiki. TC members are asked to comment on the completeness of the list of proposed profiles.

The property tables in the Language Specification are normative. Json, as an encoding, is non-normative. However, if you elect to use Json, then it should be done in accordance with the json specified in the Language Specification. The OpenC2 Language Specification permits the use of other encodings.

An email announcing the data call will be sent to the members and an action item will be opened.

**Status/Resolution
of Actions**

Two electronic ballots were conducted since the 16 August 2017 OpenC2 meeting. The formation of GitHub repositories for the OpenC2 Code Base was approved with the caveat that company names are not included in the name of the GitHub repositories. The 13 July 2017 minutes were approved.

**Poll for New
Business**

There was no new business.

**Motion to
Adjourn**

Upcoming TC meetings are scheduled for:

- October 18 at 11:00 and 21:00 Eastern (15:00 and 01:00 UTC)
- November 15 at 11:00 and 21:00 Eastern (15:00 and 01:00 UTC)
- December 20 at 11:00 and 21:00 Eastern (15:00 and 01:00 UTC)

Mr. Duncan Sparrell made a motion to adjourn the meeting and Mr. Dave Lemire seconded the motion.

OpenC2 TC Attendees
September 20, 2017

Name	Company
Andrenacci, Andrea	Moviri SPA
Barnum, Sean	FireEye, Inc.
Brown, Sarah	NCI Agency
Brule, Joe ~	National Security Agency
Darley, Trey	New Context Services, Inc.
De Bernardi, Andrea	Moviri SPA
Fai, Joyce ~	National Security Agency
Farral, Travis	Anomali
Fitzgerald-McKay, Jessica	National Security Agency
Gurney, John-Mark	New Context Services, Inc.
Humphrey, Nick	Huntsman Security
Jordan, Bret	Symantec Corp.
Kakumaru, Takahiro *	NEC Corporation
Kasavchenko, Kirill	Arbor Networks
Kemp, David ~	National Security Agency
Kirillov, Ivan	Mitre Corporation
Landfield, Kent	McAfee
Lemire, David ~	G2
MacGregor, Scott	McAfee
Martinez, Danny	G2
May, Andrew *	ViaSat
Patrick, Paul	FireEye, Inc.
Ricard, Chris	Financial Services Information Sharing and Analysis Center (FS-ISAC)
Riedel, Daniel	New Context Services, Inc.
Romano, Jason	National Security Agency
Royer, Philip	Phantom
Skeen, Duane	Northrop Grumman
Sparrell, Duncan ~	sFractal Consulting LLC
Storms, Andrew	New Context Services, Inc.
Stueve, Gerald	Fornetix
Sullivan, Rodney	NCI Agency
Thomson, Allan	LookingGlass
Verma, Jyoti ~	Cisco Systems
Waltermire, David	NIST
Young, Dennis	FireEye, Inc.
Yu, Sounil	Bank of America

*Attended 2100 ET

~ Attended both 1100 and 2100 ET