Meeting Date: April, 2020
Time: 10:00 AM US EST
Purpose: Monthly CTI TC Meeting

Attendees:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Role</th>
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</thead>
<tbody>
<tr>
<td>Applegate, Alex</td>
<td>LookingGlass</td>
<td>Voting Member</td>
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<tr>
<td>Ginn, Jane</td>
<td>CTIN</td>
<td>Secretary</td>
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<tr>
<td>Hohimer, Ryan</td>
<td>DarkLight, Inc.</td>
<td>Chair</td>
</tr>
<tr>
<td>Keith, Robert</td>
<td>Broadcom</td>
<td>Voting Member</td>
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<td>Maroney, Patrick</td>
<td>AT&amp;T</td>
<td>Voting Member</td>
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<tr>
<td>Mavroeidis, Vasileios</td>
<td>University of Oslo</td>
<td>Chair</td>
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<tr>
<td>Palmstrøm, Ulrik</td>
<td>University of Oslo</td>
<td>Member</td>
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<tr>
<td>Thompson, Dean</td>
<td>ANZ</td>
<td>Member</td>
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<tr>
<td>Windsor, Andrew</td>
<td>Cisco Systems</td>
<td>Member</td>
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Agenda:
- Welcome – Review Agenda
- Status Report on Progress – GitHub Repository for Ontology

Meeting Notes:

- Ryan Hohimer
  Welcome – let’s get started
  We’ve requested Chet to set-up a GitHub account for us
  This is where we’ll be placing our OWL ontologies
  [Spoke a little about why he prefers OWL – I like to work in RDF]
  We have a Draft ontology set-up
  It will be moved, along with other utilities, to the new GitHub site
  We have started to flush out the classification of Threat Actors
  Quite similar to Tim Casey’s library with Threat Agents
  Vasileios is talking about ‘Goals’ instead of ‘outcome attributes’ We’ll be working this out
  Each of the Threat Actors can have ‘Attributes’
  This is a “has a” rather than “is a” relationships
  Invited participation – others to work on a Draft Document

- Patrick Maroney
  Asked about whether in Turtle or OWL?

- Ryan Hohimer
  [Some discussion on models and utilities] The CASE group works in Turtle and others
  I’ve developed some utilities that allows us to translate
  An editor of the ontology could work in the preferred formation
  The requirement would be that we normalize it – that is, put it back in the Preferred Format

- Patrick Maroney
The answer to my question is RDF toolkit
Ryan Hohimer
Vasileios and I have been experimenting with WebProtoge’ – It is not quite right
There is work to be done on the ‘Goals’ taxonomy
The mechanics of how to work on this with an inference engine –
For Darklight’s involvement, we are forming this
Several tools available to us
The tool of “Subsumptive” (Is a) the other is a “Composite” (Has a) relationship
[Gave some examples]
There are topics of discussions – for how to define the ontology
Once we get the artifacts posted – and people start to review them
We’ve made a little progress on the Use Case document [Asked others to contribute]
Use cases drive requirements and requirements drive development
Patrick Maroney
Have we made a decision on which Entity model we are going to adopt? WC3? EIQ?
Ryan Hohimer
We have not had that discussion yet – [Added to slide]
It is the integration of ontologies
Some groups call this mappings
Given the origins of this group – one of the first integrations is with STIX 2.1
We’ll be extending it in more of a semantic graph form
[Asked for input & comments]
At next Working Meeting we should have the GitHub site set-up
We should have some Utilities set-up
[Asked for another Maintainer]
Asked if there were comments on whether or not GitHub is best place
[Some discussion]
Patrick Maroney
Pointed out that there are some OASIS constraints on where we post
Ryan Hohimer
Used example of how using STIX 2.1 Specification – Then they have to
Create a formal semantic representation
We need to get some momentum going into
Vasileios Mavroeidis
Pointed out that it is important to have two GitHub Repositories
One for the working ontology and the specification
Jane Ginn
Pointed out that CTI TC debated about where to post the
working documents during the build of the Specifications
settled on using Google Docs
Patrick Maroney
Agreed that this was the course the CTI TC took – worked well
Ryan Hohimer
Asked Jane Ginn to check on a Template to use
Adjourned the meeting

Meeting Terminated
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