### Architectural Reference Working Group

### **Meeting Minutes**

20 May 2021

Attendees: Russ Warren, Adam Montville, Mitch Thomas, David Kemp, Andrew Beard, Bill Munyan, Mudit Tyagi
Agenda:

Here is the agenda for our call Thursday.

1 - Bill Munyan has sent out the following diagram and note on what he will cover:

I can present on the work we've been doing in the SACM working group in the IETF (on par with SCAP work -- my example uses SCAP content/tooling) and an example component, topic, and workflow diagram.

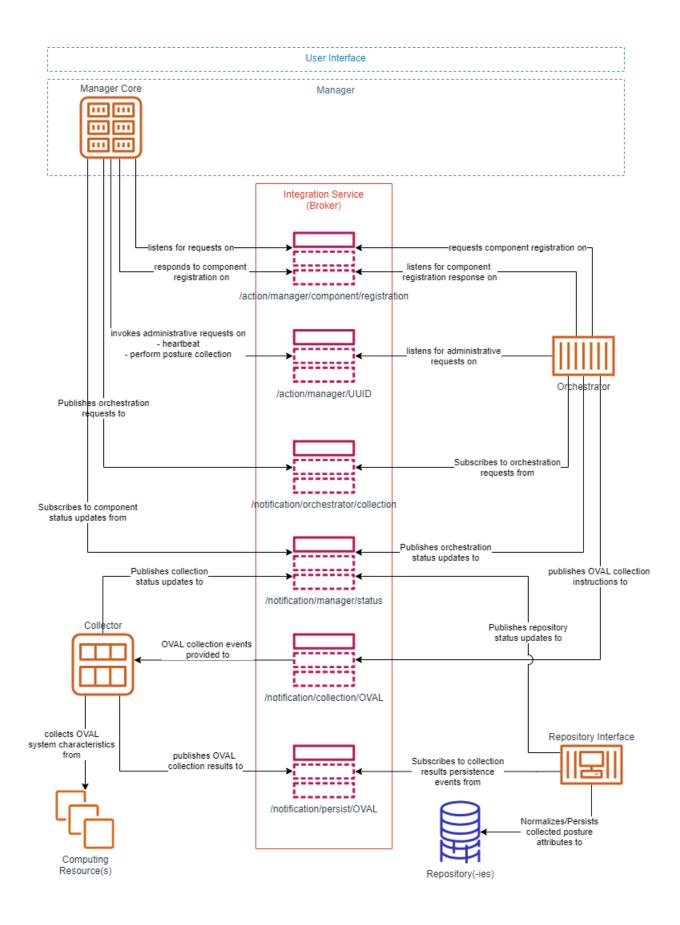
I've attached the diagram I will go through:

The orange-colored icons represent components in the ecosystem

The blue ones represent data repositories

The red/pink ones down the middle of the diagram represent topics (an example implementation of which would be, OpenDXL topics with payload specifications outlined in the "OCA ontology")

2 – Andrew Beard will review his work on Threat Intelligence and the ontology.



## Topic 1 – Discuss SACM working group (IETF) – Lead by Bill Munyan

Bill discussed the IETF work group working with the SACM (Security Automated and Continuous Monitoring). The focus is on Posture Attribute Collection and Evaluation. An architecture draft is available at

# https://datatracker.ietf.org/doc/draft-ietf-sacm-arch/

The SCAP group has been focused on architecture (SACM and SCAP). 2 are similar on what they are trying to accomplish. SACM is more content agnostic. Hackathons and POCs have been done. XMPP messaging framework and OVAL definitions have been used. Draft is focus on capabilities and operations. Capabilities is what the component can do. Capability advertisement/service directory is used to publish the capabilities on the components. OpenDXL can be used as the integration service and the OCA ontology describes the topic actions and payloads. Operations such as registration, notifications, posture collection, posture evaluation, and an admin interface.

Diagram shows the Manager, SACM producer and consumers exchanging messages over the integration services (OpenDXL). Posture collection can be done via an agent or via a posture collection service (not on the endpoint). (see meeting recording for slides). Orchestration would collect the posture information from the posture collection services. Manager, orchestrator, collector, repository, and endpoints are the components. Manager listens to a predefined topic for requests. The manager works with the orchestrator to collect the posture information.

+++ We lost Bill to a power outage +++ We will continue the discussion on our next call.

## Topic 2 – Discuss Threat Intelligence and the ontology – Lead by Andrew Beard

There is a Build issue on the OCA Ontology GitHub. We need Chris Smith's (Ontology maintainer) to help fix this. Andrew has a Pull request for his input on the threat intelligence ontology. The threat intelligence will be a passive role (answers requests from SIEM/SOAR, receives data from threat intelligence source). We can use STIX patterns to interact with the Threat Intelligence system. Andrew created a list of attributes. We should support IPV4 and IPV6 with common type.

Andrew will capture the use cases for the user of the threat intelligence system. Data gets put into and out of the threat intelligence system (like a library). STIX can handle a lot of the communication. Project Kestrel can be relevant to this discussion. C4 diagrams also need to be added for this system.

OpenC2 is a graph-based interface, and we will need to map to the ontology.