System Management Working Group – December 13, 2019

Attendees

Old Business

1. Geneva Deliverables Review
   b. CLI (https://github.com/edgexfoundry-holding/edgex-cli/issues) (Alex, VMware)
      i. Issues outstanding are specific to Geneva’s April target
      ii. Believes current version is at a point where it can be used/tested; request to shift from holding
      iii. Michael to review CLI (not yet tested on Windows)
   c. Open Horizon (Joe, IBM)

2. CLI move from edgexfoundry-holding to edgexfoundry
   a. Progress towards 0.1.0 deliverable (prerequisite to making request)
   b. Review of related discussions in QA and Certification working groups
      i. Met on testing CLI via TAF framework
      ii. Certification – may be too early to see where it fits; might be used as UI to run certification tests
      iii. Robyn – intro video to CLI for his team; follow-on conversation on how it can help them with testing

3. Additional EdgeX-specific system-wide metrics
   a. On agenda for next security workgroup meeting
   b. Suggestion to bring topic to other working groups (Odysseas)
   c. Use security working group as a way to establish approach before bringing to other working groups (Trevor)
   d. Focus on security group (and others) to have a quick conversation around what each working group might have to add to our metrics. Jim will queue this up in each working group into the new year. Michael will not raise this with security at this point.
   e. Architecture up to system management working group; use the input from each working group to put together an architectural proposal.
g. What purview does system management have over metrics? How does that affect UI? Would system-wide tracing fall under this? (Trevor)
h. Let’s use system management to figure out what metrics we want before we go system-wide with the implementation.
i. System management has been always thought of as optional; isn’t a deployment tool; is there to help facilitate via single endpoint to get system-wide status/state. (Jim)
j. Need to focus on EdgeX-specific metrics beyond cpu and memory usage; how do we start – identifying what they are is the first step. (Jim)
k. Proposal from system management is a follow-on. First understand the use cases.
l. https://github.com/rcrowley/go-metrics is used by Intel in conjunction with Telegraph to gather metrics for other projects. (Mike)

New Business

1. Patterns of asynchronous operations.
   a. Token-based approach to asynchronous request; to restart system management agent. Request returns token; request is worked in the background; requestor could subsequently poll using the token for a result. (Trevor)
   b. Poll-based solutions can be very expensive (wake-up, scaling). (Jim)
2. Other new business?
   a. Michael is out the next three Fridays; our next meeting is scheduled for January 10, 2020.