Core Working Group Meeting Notes (13-Feb-2020)
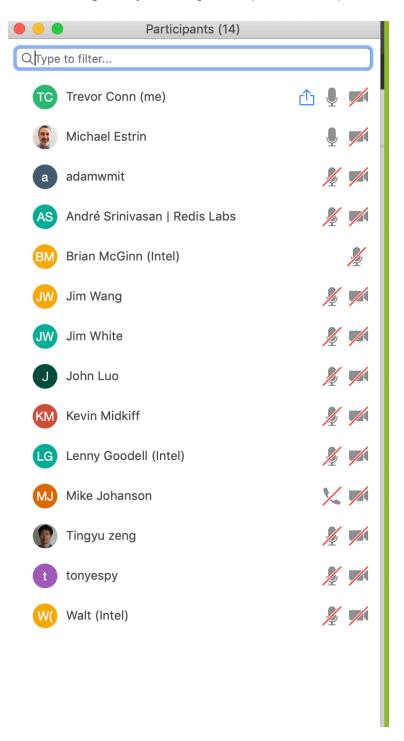

1.) Requested discussion items from Slack (M.Estrin)
   a. Response of issueDeviceCommand is not providing CBOR Content-Type header
      i. https://github.com/edgexfoundry/edgex-go/issues/2272
      ii. *We'll go ahead and create an issue to address / fix this for Geneva*
   b. PR #2335 – Redis as Default DB

     i. https://github.com/edgexfoundry/edgex-go/pull/2335#discussion_r376446053
    ii. Deals with lack of support for logs in Redis
    iii. Discussed the difference between HA versus local deployments of EdgeX and how the logging solution might differ
    iv. Proposed dropping Mongo support and only persist to file
    v. Topic for pre-wire in March (Raleigh)
    vi. What to do in cases where logging is persisted to a file? Some current support-logging endpoints don't work. Do we try to fix in V1 or not?
    vii. OK to pull-in before pre-wire end of March pending rebase and possible re-review. Above discussion should not hold up the merge.

2.) Quick note – 20-Feb Core WG meeting will be cancelled
3.) Follow-up to Tuesday's TSC Architects session

  In Slack, Jim summarized the 4 goals of API V2 as agreed to in the meeting:

1) EdgeX to use specification (Open API) first development & DTOs to define data exchange with and between services via that specification [specs are source of truth]
2) Applying lessons learned from V1 API (too much coupling, …) to new V2 API
3) Set us up for other comms transport impl for service API in a future release
a. DS to app service direct comms
b. Alternate use of pub/sub (in addition of HTTP) between services
4) That we support authenticate/authorize on any request
a. And have to maintain or incorporate our own security solution(s) (vs use 3rd party impl like Kong)

The follow-up discussion we need to have today revolves around the following points.

- Where do these goals get applied? core/supporting services only? DS and app services (and associated SDKs), sys mgmt, security???
- What about specific ancillary considerations to the PR - like bootstrapping. Is this part o V2 API or separate from it? Will all services adopt the same bootstrapping?
- If aligned on goals and where it applies, when (in what release) does it get applied to each service group?

- *Discussed varying views w/r/t common architecture across platform contexts vs. allowing architecture to vary according to the specific role of the context (App Functions vs Core vs Device Services)*
- *Common architecture == benefit for devs looking to add value or extend in that common patterns are available across whole platform*
- *Heterogeneous architecture doesn't imply a complete variation. There may be commonalities in core modules (such as go-mod-bootstrap integration) but then as implementation is stacked on the core modules, that can vary according to the need.*
- *Jim White – Not a fan of implementation / architecture variance but if that comes to pass, the externally facing API definitions have to agree*

- *Michael E – Value in adopting singular framework / architecture to build capabilities around*
- *Discussion regarding the fact that we already have three different context-based architecture. If that's bad, doesn't the discussion of V2 implementation in Core move us in the direction of homogeneity?*
    - *Michael endorsing homogenous direction*
- *Separation of topics*
    - *Common architecture (sounds like folks agree this is a good thing)*
    - *Is the implementation in 2285 the route to getting us there?*
        - *If not, what else does the community propose?*