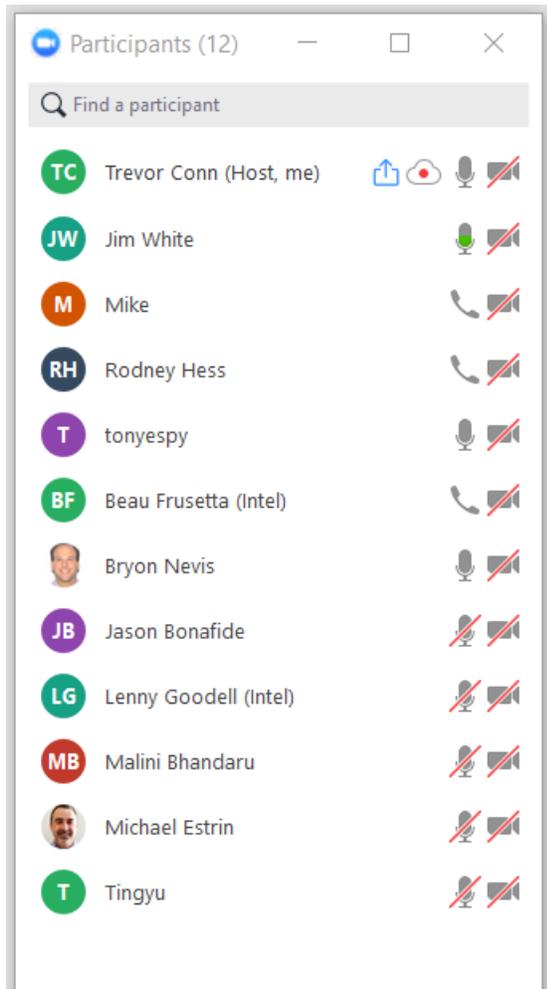


API V2 Follow-up Meeting Notes (3-Mar-2020)



Included as a given:

** Refactor of API requests/responses to avoid "data leakage"

1.) Major version rev

- a. Previous goal was to build major version longevity into V2
- b. Re-assess and determine if still applicable.
 - i. If so, we have to be clear about what we include for V2
 1. Big ticket items -- transport and security
 2. Positioning for the future, backward compatibility
 - a. removal of Support-logging
 - b. repurpose Core-data --> Support-data
 - ii. If not, we have more flexibility
- c. I do have a concern that whatever our level of planning at this time, since we are not considering HA as a goal, HA support will force us to rev major version.

2.) Transport agnosticity

- a. Included as part of Dell's V2 proposal due to community input RE: alternative architectural footprints (pub/sub from DS to AppSvc)
 - i. DTOs used by REST endpoints should be the same as those used via pub/sub (just like today's ZMQ bus from Core-Data to AppSvc)
 - b. Dell extended this proposal to include all operations supported by the EdgeX platform, not just sensor event ingestion
 - c. If we limit our scope for V2 to HTTP/REST, could limited pub/sub be added without rev'ing major version?
- 3.) Integrated security solution from the beginning of V2
- a. Such as identity mgmt, auth/auth, encryption
 - i. Bryon's full V2 proposal --> <https://docs.google.com/presentation/d/1S56M5-kSFDOdN0T0IELHDdhuy-JbNOdqpDPwfx-Mi8c>
 - b. If transport agnosticity (#2 above) is optional, what effect does limiting V2 transport to HTTP/REST have on this proposal?
 - i. Elimination of /batch endpoint for instance, only support use-case endpoints
 - ii. Would later introduction of limited pub/sub cause a major version rev?
 - iii. Should we still consider all of the following as requirements applied to HTTP/REST which can then be carried over to pub/sub?
 - 1. https://docs.google.com/presentation/d/1S56M5-kSFDOdN0T0IELHDdhuy-JbNOdqpDPwfx-Mi8c/edit#slide=id.g7d50bde1ce_0_45

Referring to the bullet above see [this slide](#)

Question from Tony referred to whether GET REST API endpoints would be secured by Option #2 on that slide. Bryon's prelim evaluation is "YES"

**

Proposal : There is some flexibility w/r/t V2 longevity – could leave V2 as “experimental” for some time.

Implement OpenAPI V2 REST/HTTP endpoints using defined DTOs

** Request DTOs for GET/DELETE do not exist for REST, would these be needed for incremental pub/sub use cases?

V2 Implementation will be beta until further notice, must co-exist and not impede V1

** Awareness of separate persistence, previous effort had decided we would have separate V1/V2 persistence. This needs to still carry forward b/c state models will most likely be different.

Add incremental pub/sub going forward as use cases require

Utilize Option 2 from security slide for both.

Deck to be updated for Security WG review (4-Mar-2020)

Ability to enable/disable security

**

- 4.) Unified base implementation across all platform sub-domains (Device Service, Core, AppServices)
 - a. Sounds like this is desirable to the community
 - i. It sounds to me like the depth of this common implement needs to be further articulated
 - ii. Two choices
 - 1. Common Impl, everybody use it
 - 2. Impl for Core only, folks review and decide if they want to use it.
 - iii. Jim wants devs who come to the platform to see similarity in API and service wireup.
 - b. Does this necessitate DS / AppServices to define their own V2 API spec?
 - i. Should they do this before we start implementation so that we have a full sense of the interactions in the system?
 - ii. Device Service API review toward principles in V2 ADR
 - c. Is there any benefit to this from a certification / testing standpoint?