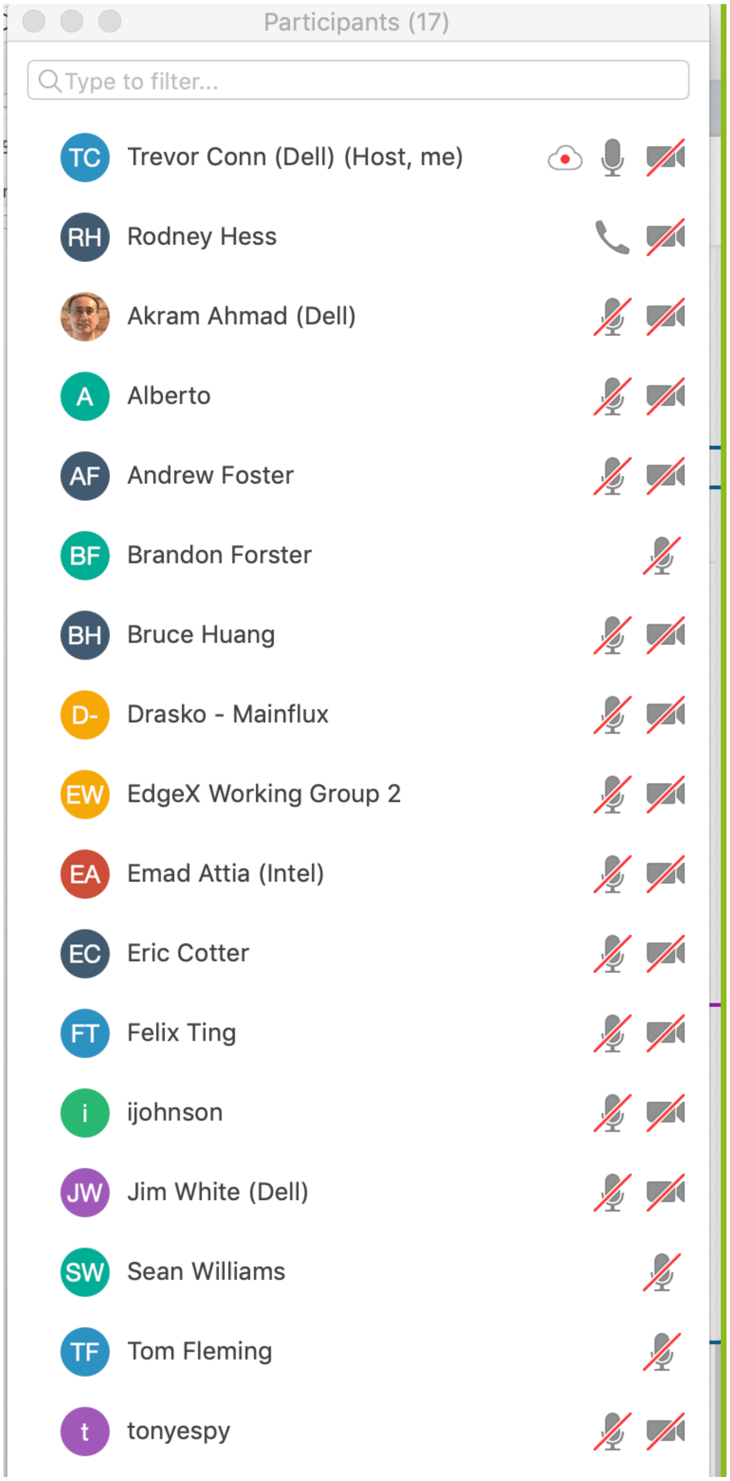
Core Working Group Agenda (08-Nov-2018)

Attendees:



- Trevor Conn (Dell) (Host, me)
- Rodney Hess
- Akram Ahmad (Dell)
- Alberto
- Andrew Foster
- Brandon Forster
- Bruce Huang
- Drasko - Mainflux
- EdgeX Working Group 2
- Emad Attia (Intel)
- Eric Cotter
- Felix Ting
- ijohnson
- Jim White (Dell)
- Sean Williams
- Tom Fleming
- tonyespy

Old Business

- Follow-up action items from last week
    - Blackbox test PDF documentation has been added here
        - https://github.com/edgexfoundry/blackbox-testing/tree/master/docs
    - Walkthrough video recorded by Trevor for local Postman testing
        - https://www.youtube.com/watch?v=LQU0Xf6EN0U
- Discuss additional logistics (action items) around blackbox test move
    - If no owners for each step, then poor man's method
    - Here are the steps
        - Move tests from blackbox repo to edgex-go *(Trevor)*
            - Define structure within edgex-go repo
                - Test definitions
                - Test execution scripts
                - Documentation
        - CI/CD changes *(?? With Jeremy leaving)*
            - Repointing of jobs
    - Need to establish a timeline for the movement and track it
        - Should we make this a regular item in the QA/DevOps WG call?
        - *Request that we keep agenda item on the above call as a check-in*
    - Either way, Contributor Guidelines need to be updated
        - Any supporting documentation (docs, videos) will need to be updated
        - *Probably need to update Contrib Guidelines w/poor man's method for now*

New Business

- Finalize decision on ScheduleEvent property modifications
    - Separate "Owner" property
    - "Service" renamed to "Target"
    - *We are good to go to start making changes here.*
        - *Past Core WG meeting notes include documentation of the decision*
        - *Tony to create issue for Device Service repos*
- Snaps / SMA
    - *Delhi issues*
        - *Doesn't support working with Snaps via stop/start operations*
        - *Lack of error checking (false OK returned to client)*
        - *https://github.com/edgexfoundry/edgex-go/pull/772*
            - *Comprehensive fix*
        - *https://github.com/edgexfoundry/edgex-go/pull/750*
            - *Smaller footprint fix*

    - *Question is to which/whether to include in Delhi dot release*
        - *Jim/Akram to discuss offline*
        - *Additional discussions in SMA meeting next week*
- Database Abstraction, remove Mongo types
    - DEMO: Brandon Foster
        - *First step = change bson.ObjectID type in all models to string*
            - *Push any ID generation down to Mongo provider layer*
        - *Two questions*
            - *Are we OK exposing internal IDs to outside world? Is there any downside to this?*
            - *Is there a use case for external apps to give us an identifier (UUID)?*
        - *Mongo capability research*
            - *Can BSONIDs be converted to GUIDs. Is there an equivalency? (TREVOR)*

ID = Key (string)

Redis = string (UUID)

Mongo = BSONID

MySQL = long

- *Points from Tony*
    - *BurntSushi lib doesn't have official release, we're using SHA right now. Concerning.*
    - *Same for Mongo, it's out of date. Do we have a replacement?*
        - *Not right now. This is driving the database abstraction work.*

    - Discuss exposure of db generated keys outside of service boundary
    - Keys versus UUID in usage
        - Key, represented as string – value is DB specific, cast by provider
            - Mongo compatibility
        - UUID is a standardized unique identifier
            - Could potentially be supplied by upstream application, not database.
    - Go libraries for UUID generation
        - https://github.com/google/uuid

            - _** my personal preference **_
        - https://github.com/satori/go.uuid
        - https://github.com/nu7hatch/gouuid (OLD)

Supplemental notes

- DB → Business Layer ID representation
    - Answer question → UUID equivalency w/BSON ID
    - If not equivalent
        - Key (string type) DB PK value
        - UUID →std library type
            - Modify query paths accordingly
            - Indexing in Mongo for lookups

UniqueIdentifier (GUID) **

Key (BSON) – DB Key ** may not want this exposed **

Both will be strings as raw data types