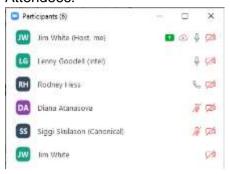*(plus system management and UI)*

1/7/21

Attendees:

Others may have been in attendance after roll was captured.

Agenda
Old
- Bugs and issues
- V2 API update
- UI update
- Kubernetes update
- CLI update
- Mongo archival

New
- Core WG board

Old Business

Current Issues/Bugs/PRs

https://docs.google.com/presentation/d/1EZTf1Ap8wX0Bq0jrV0AaFNgpc9LaMjQOwvHtnXGbsEU/edit#slide=id.g8eb5d9eeb3_0_0

- Go 1.14 - includes ability to kill Go routines (pre-empt them).
  - Impacts ZMQ. C calls or systems calls will include a chance to have an interrupt take place.
  - V 1.2.1 is latest version - Lenny re-opened the PR
    - 1.2.2 Dependbot
  - Are there other places in our Go code where interrupt could happen
  - Cloud and team to try this out. It worked and took care of the issue (see dot release info below)

- ○ This requires Dot release (post Feb 11)
  - ■ Branch from the 1.3.0 tag
  - ■ Will require release of app service SDK
  - ■ Kuiper guys? Need there input
    - ● No go-mod-messaging changes just for Ireland
  - ■ Also include
    - ● Metadata: admin state/op state updates fix
    - ● CLI config toml
  - ■ Device Service (all done before Feb 11)
    - ● Go SDK release 1.4.0 this week
    - ● DS released 1.x.1 before Feb at their discretion
    - ● C SDK will need a 1.3.1 release (to be determined timing)
    - ● Then C services after that

V2 API update
- ● Almost have the core services done
- ● Clients, Command and supporting services left
- ● Testing lagging but focus is correctly on getting the APIs and clients done first
- ● Event DTO
  - ○ We have 2 DTO (EventDTO and AddEventDTO)
  - ○ This is in relation to CBOR - how do we handle CBOR
  - ○ The old way used (V1) single event CBOR encoded and now we use (V2) array of AddEventDTO CBOR encoded
  - ○ AddEventDTO has the EventDTO embedded with additional field called request ID (for future message bus or other protocol use)
  - ○ Options:
    - ■ Leave what we are doing with EventDTO JSON
    - ■ Or make consistent that it is always an AddEventDTO
    - ■ **Decision**: V2 API for JSON needs to push array of AddEventDTO and not EventDTO
  - ○ Secondary issue: all V2 APIs were built to handle arrays. Does this make sense for events?
    - ■ We changed the APIs to allow for an array of events but we are not leveraging it.
    - ■ **Decision**: keep as is with arrays
    - ■ Keep it consistent with previous decision to have support for array of objects for future needs and future protocol support
  - ○ CBOR vs JSON encode - explore one more time
    - ■ Issue: performance and size of message along with ease of use
    - ■ Architect's meeting; benchmarking, single side that walks through the issue - all helpful to the conversation
      - ● Example with device camera with binary readings
- ● Delete by ID in general (not for event)
  - ○ No get by ID (per earlier meeting)
  - ○ So why have Delete by ID?
  - ○ **Decision**: yep, remove it now (add it back in if needed)
  - ○ Delete Event by ID is still needed because an event does not have a name.

(plus system management and UI)

- Today:
    - Almost complete API in core metadata
    - Reading query in core data
    - Plan to complete PRs by Christmas
    - In new year, start work on CBOR support in Core Data and Core Command
    - Complete Core API by January
    - Working on Client libraries; allowing DS team to start working with V2 API
    - Removing the query by ID from Swagger file - Decision: Yes

Kubernetes

- Example now in edgex-examples (using MicroK8s and deployment file for either Hanoi or Geneva).
- Security features to be added
- Will reconvene the sub-project group to discuss next steps (Feb?)

UI

- Moving to new framework (Angular - with Go backend) - but separate work item
- Visualization - WIP
- Focus will now be on:
    - 1 - update the UI (with the new framework) to use the new V2 APIs
    - 2 - add the device wizard (per Shengqi's prototypes)
    - 3 - add the data visualization (per Shengqi's prototypes)
    - 4 - incorporate the color schemes/fonts/branding of the new EdgeX Web site in the UI.
    - 5 - provide a link to the new EdgeX ready program and tools when it is ready (to be done by early first quarter 2021)

CLI - now released and new snap in snap store

- Artifact configuration toml file issue
    - How to handle:
        - Do we need 2 files?
        - Delete template configuration file?
    - **Decision (subject to Diana's work and input)**: CLI binary will take care of copying the file and specify to the user where that is on bootstrap start of tool. Defaults will not be in the code.
- Part of a dot release

Mongo Docker Github repository - archival requested.

(plus system management and UI)

Scheduler - interval and interval actions, can we override? No - you cannot

- Lenny to check and work with Tony to file issue if necessary
- You can modify existing but not add new ones
- Issue to be created - not critical (low or medium level)
- Could have the same issue with Provision Watchers (Jim to check with Iain/Cloud)

New Business

- Board updates
- Attribution files
  - Duplicates of attribution.txt in all the services in edgex-go
  - Move to single file in base of edgex-go and push that to all artifacts (CI/CD process)
  - Put a comment in the attribution file that explains the attribution is for the entire repos (and not all attribution is applicable to all services) - Jim
  - Change to attribution files and docker file (Jim); snap change (Tony); potential CI/CD pipe changes (Ernesto)
- Go-mod-secrets dependabot issue - Jim to get with Lenny/Security
- Go mod updates discussion - Lenny handling dot (v patch) release upgrades. No issues on this and doing as we can. If issues come up Lenny will bring back to the group.