12/3/20

Attendees:

Others may have been in attendance after roll was captured.

Agenda

Old

- Meeting schedule
- Bugs and issues
- V2 API update
- UI update
- Kubernetes update
- CLI update

New

- Message bus ADR
- Core WG board
- December schedule
- Ireland tasks

Old Business

Cancelling next week’s meeting - Jim out
Cancelling Dec 24 and Dec 31 meetings as well due to holidays.

Current Issues/Bugs/PRs

- edgex-go
  - Fixed issue
    - Issue #2911, [v1 metadata] core-metadata container exits after updating deviceService adminState.
    - Issue #2903, [V2 data] Update corresponding V2 API per the recent changes from Reading DTO/Model.
Issue #2904, [V2 data] Implement GET /reading/count V2 API.
  Working issue
  - Issue #2895, [V2 data] Implement GET /reading/all V2 API.
  - Issue #2909, [V2 metadata] Implement GET /deviceprofile/model/{model} V2 API.

- Go-mod-core-contracts
  Fixed issue
  - Issue #370, [V2] Modify the fields in Reading DTO and Model.
  - Issue #372, [V2] Remove base64 encoding for float value.

- Go-mod-registry
  New issue
  - Issue #64, Custom Health Check Registration.

- Go-mod-messaging
  Working issue
  - Issue #76, ZeroMQ send might be interrupted by system call after Go v1.14.

As a result of modbus scalability testing
  - Goroutines are now asynchronously preemptible
  - https://github.com/edgexfoundry/go-mod-messaging/issues/76
    - Options: GODEBUG=asyncpreemptoff=1, retry, use new 0MQ lib
    - ? - does it happen on the publish of the event; Yes
    - What causes the call to be preemptive? Answer to this could be helpful to make decision on how to address.
  - Failed to push event - too many events that core data can’t keep up
  - https://github.com/edgexfoundry/device-sdk-go/pull/661
    - Options: increase buffer, retry, ?
    - Do we have the concept of flow control?
  - On both of these issues, more to research. Will continue to revisit in Core WG.
    - May just be about providing guidance to user on how to avoid or reduce the issue or to switch to MQTT with broker when message bus is in place.

V2 API update
- Per last meeting:
  - Event Scrub API work ongoing
  - Deletion API working
  - Started Client lib for go mod contract

- Issues per Cloud
  - Reading labels- the BaseReading object contains labels and it would be the query condition. I don’t think it is useful in reading, and it would eat lots of space. May we remove it?
    - Propose get rid of query by label on Reading due to memory it takes to provide index (in Redis)
EdgeX Foundry Core Working Group

*plus system management and UI*

- Pointer to the data is what is using memory
- **Decision**: remove label and query
  - Get Reading by ValueType API - I don't see the reason to use this API and it needs lots of space in Redis to support it. May we remove it?
- Query by value type - need to query by resource name but by “int”?  
- **Decision**: remove the query
- **Decision**: But add a query by resource name

- **Today**:
  - Reading queries - WIP
  - Device profile query (by manufacturer and model)

**Kubernetes**

- Draft deployment file available - ready for test and review before documenting and putting in examples.

**UI**

- Moving to new framework (Angular - with Go backend)
  - **Rationale**:
    - Developer knowledge in PRC
    - Improve loose coupling between the UI skin and backend
    - More likely to help support both security and no-security with Golang backend.
    - Support bidirectional network communication using websocket with Golang coding
  - **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)

- **UI and Snap issue - per Slack message**
  - Today, we are not shipping UI with snap
  - Going forward, snap team will explore how best to release UI for snap (probably release it independent)
  - Jim to respond to slack

**CLI - now released**

- No new update; working on documentation (for docs.edgexfoundry.org)
New Business

- Slack message this morning: “hello everyone. I'am now running edgex hanoi with redis database. After sending some (a lot?) data to a device, redis consume too much memory, is my usecase sane? How can I limit data cached in redis? note, my data needs to be saved to disk.”
  - Jim to draft up some stuff to put in the edgex docs
- MB ADR - reviewed outstanding issues; all issues should now have resolution and Lenny to do final clean up.
- Cleaned our board
  - Questions about these
    - https://github.com/edgexfoundry/edgex-go/issues/2876
    - https://github.com/edgexfoundry/go-mod-registry/issues/64
    - Addressed and moved to backlog
- Ireland tasks - added/updated all the issues and put on our dashboard