



12/17/20



Attendees:

Others may have been in attendance after roll was captured.

Agenda

Old

- Holiday schedule
- Bugs and issues
 - ZMQ issue
- V2 API update
- UI update
- Kubernetes update
- CLI update

New

- Core WG board
- Mongo archival

Old Business

Canceled rest of the meetings for the year. We reconvene Jan 7. Happy holidays everyone.

Current Issues/Bugs/PRs

https://docs.google.com/presentation/d/1EZTf1Ap8wX0Bq0jrV0AaFNqpc9LaMjQOwvHtnXGbsEU/edit#slide=id.g8aa2d85d1a_0_3



(plus system management and UI)

- 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 OMQ 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>
 - <https://github.com/edgexfoundry/device-sdk-go/issues/657>
 - Options: increase buffer, retry, ?
 - Do we have the concept of flow control?
 - Tackle this (possibly) in V2
 - 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.
 - Tony's research
 - 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.
 - Requires - a retry.
 - ZMQ says (2 options):
 - Turn off pre-empt
 - Do a retry (new version adds support to automatically retry)
 - V 1.0.0 of ZMQ is where we are.
 - Fix was in 1.1.0
 - 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.
 - This requires Dot release
 - Branch from the 1.3.0 tag
 - Will require release of app service SDK
 - Kuiper guys? Need their input
 - Also include
 - Metadata: admin state/op state updates fix
 - Plan: get read out from Cloud and produce dot release in New Year (core and app func SDK 1.3.1)



V2 API update

- Per last meeting:
 - Reading labels- remove label and query
 - Get Reading by ValueType API- remove the query; but add a query by resource name
 - Reading and device profile queries - WIP
- 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

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

UI

- Moving to new framework (Angular - with Go backend)
- No new updates
- 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

- Update: fixed some small issues (profile messaging), correlation id sending fix, use JSON in scripts, adding spinner for long running tasks (indicator that it is still working)
- Chuck has submitted an enhancement request to have CLI create template project for service (app or device).
 - We need to explore in 2021 (possibly creating template projects in examples repos)
- Release CLI is missing the TOML files - in TARs?
 - Diana checking - file should be created?? Not sure
 - Probably a dot release of the CLI



New Business

- Scheduler - interval and interval actions, can we override?
 - Lenny to check and work with Tony to file issue if necessary
- Ready for Mongo docker archival
 - PR merged to remove all the code
- Board updates