Core Working Group Agenda (19-July-2018)

Attendees:
Old Business

- Update on public cloud Export Connector Endpoints
  - Parent LF account registered with Azure, invoicing and account mgmt. is being configured
  - Suggestion from Brett/Eric that EdgeX community create account in Google Cloud. Once that’s done, it can be linked to LF’s invoice system.
    - Thoughts? Need someone to take this on → Andy Foster to follow up with Brett/Eric

- Binary Serialization
  - CBOR is the recommendation, vote confirmed by TSC
  - Trevor deliverable – Present diagram for implementing natively end to end
    - South to northbound
    - Account for protobuf blob as reading inside of the reading
      - Overall reading encoded as CBOR (proposed)
  - Hitachi confirmed MQTT would be the primary device protocol, but could also be HTTP
  - The attributes shown on the diagram will be part of the binary payload, not individual value descriptors
    - We won’t be adding new fields to capture these elements
  - MIME-Type in a value descriptor? May not be feasible in the existing objects.
  - Discussion on persistence of binary payload as base64 within Mongo
    - Is this feasible to store in the same catalog with other events?
      - Research capabilities of blob handling in Mongo
    - Possible need for fault tolerance. What about data loss?
      - No store and forward capability right now in EdgeX
      - Hitachi has requirement for this.
      - Replacing 0MQ w/MQTT could add value here
        - Storage size implications. Configurable setting?
        - Will there be queries on the actual binary data?
  - Question regarding just passing through CBOR from MQ to upstream cloud. Depends on whether enrichment is required.
  - Incorporate feedback and revisit at next meeting. Discussion of possible timelines.

- Package restructuring is underway for separation of external/internal models and encapsulation.
  - Core/support services have been moved.
  - Export services still need to be moved.
  - Just starting work on domain → external model translation
    - Haven’t forgotten Tony asked to review
• Confirm future direction for Docker deployments to NOT comingle dependent platform with EdgeX service into one container
  o Example – Consul + Config-seed
  o Example – Mongo + Mongo-seed
    ▪ Work item to split these images into separate Docker containers
      • https://github.com/edgexfoundry/developer-scripts/issues/65
      • Tag as help wanted (Jim)
    ▪ Update architectural guidelines to require separation of platform from init services
      • Not done AFAIK
• Export services logging is different from other services
  o See https://github.com/edgexfoundry/edgex-go/issues/328
  o Also, services do not log to the shared volume when deployed via Docker
  o No objection on last call to standardizing logging service integration in Export for Delhi. Make it so!
    ▪ https://github.com/edgexfoundry/edgex-go/issues/328
  o NOTE: local service logging that writes to the file system could be mapped to the volume file system, same as support-logging
• Discuss Java service support and POM dependency mgmt.
  o POM versions weren’t even incremented for services not included in California release
  o By Delhi, these services’ APIs will be out of sync with RAML and Go implementation.
    ▪ Updates to address this are not on anyone’s roadmap
  o Agreed to abandon the platform services (??) Needs TSC vote.
    ▪ Device Service Go/C SDK with examples are required.
    ▪ Agenda Item for DS WG Meeting, possibly TSC
    ▪ Any ideas for additional resources to get us through this push?
      • Jim might have more information next week.
      • Targeting for Delhi is to have sample device services in C/Go, eliminating need for legacy Java device services
      • Remove for now

New Business
• FYI – First draft of configuration V2 structure is done. May be possible to present to the community next week for comment.
  o Vault/Consul interaction and handling of secrets is an open question
• Scope of 0.6.1 release
  o Scheduler
- Notifications
- DevOps
  - ARM artifacts
- Code commit end of July, release early August?