Core Working Group Meeting Notes (26-July-2018)

Attendees:
Old Business

- Binary Serialization
  - CBOR is the recommendation, vote confirmed by TSC
  - Trevor deliverable – Revise CBOR flow diagram to integrate comments from last week
    - Consider UnitProperty to store MIME type (or BinaryProperty)
    - Extend DeviceResource inside of DeviceProfile
    - Client may not have access to this
    - MIME may not be in the same struct as Readings
    - Mock implementation of Event/Reading containing BLOB data
      - Jim – Translation slide, hand over to DS Group
      - Tony – DeviceResource translation to ValueDescriptor
    - Ingesting video could be multi-part transmitted, requirement that each part is below the 16MB threshold
  - Hitachi confirmed MQTT would be the primary device protocol, but could also be HTTP
  - Article circulated via TSC Core list on Mongo binary support
- 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.
    - 2-3 weeks to completion (Drasko)
  - Reviewed with Tony last Friday
  - Sent email RE: issues with Mongo coupling in models
  - Due to analysis of Mongo replacement, see email for criteria for replacement driver functionality
    - Evaluate the lift for replacing legacy mgo driver with official MongoDB driver (Trevor – next meeting)

New Business

- Mongo driver
  - The one currently in use is unmaintained
    - https://godoc.org/gopkg.in/mgo.v2
  - Should we look at official MongoDB driver for Go?
    - https://github.com/mongodb/mongo-go-driver
    - Unfortunately, Alpha 9 😞
Is Mongo even in our future for reference implementation? If not, what’s the alternative?

Concern RE: AGPL license of MongoDB platform itself
- Hitachi brought up this concern
- Janine on the call, clarified that they could not ship hardware with Mongo installed. If hosted on cloud, that’s fine.

Consensus is that we need to re-evaluate Mongo’s part in implementation and do another analysis of a replacement.

FYI – First draft of configuration V2 structure is done. Present to community for comment.
- Vault/Consul interaction and handling of secrets is an open question
- OK – Looks good

From Steve Oss – JSON vs Text in API Response
- Negative impacts on blackbox testing
- Some endpoints just return words (like “pong”)
  - Make these into simple types?
- In cases where “true” / “false” are returned, can we utilize HTTP status codes instead?
- Agreement all around