Device and Device SDK Working Group

Notes for October 14 2019

SDKs

- CSDK: Provision watcher support in progress

- GO SDK

    - Priority issues for Fuji are #318 (ValueDescriptor creation) and #245 (Profile field renames)

    - Noted that code changes will be required if we move to the current core-contracts

Device Services

- BACnet: DevOps team working on build automation

- Camera: Moved out of -holding following resolution of remaining issues

- OPCUA: Review in progress with some patches ready

- REST

    - Proved to be useful in the Hackathon last week

    - Working on more unit test coverage

    - Code not yet moved into -holding

- Various: Require update to reinstate registry use in the default docker config (**Iain**, **Cloud**)

- MQTT: Default configuration doesn't include the usual ProfilesDir setting

    - Issue #103 opened

Currently in-scope for Geneva

- Dynamic discovery of devices using provision watchers (not all DSs will be able to do this due to protocol limitations)

- Move to Go v1.13

- Split of registry abstraction (Configuration vs Service inventory)

- New datatypes defined for REST requests and responses

    - Trevor and Rodney are working on an API changes document

- Readings will include type information

- Profile simplification: **Iain** to document the current status and proposals

Potentially in-scope for Geneva

- Support for map and array datatypes, depending on agreement of design

- We may aim to have use cases / designs for some features in the Geneva timescale, in order to implement for Hanoi:
    - Hooks to be provided for the purpose of filtering readings, in the same way as is done in application services.
    - Load management and downsampling.
    - Migration of devices from one DS to another (eg for wearables that physically move between the ranges of different base stations)
    - Role-based access controls