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)
  ◦ 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