Device and Device SDK Working Group

Notes for June 24 2019

Status Updates

- Edinburgh / v1.0.0 release
  - C device services to be part of future 1.0.1 release
  - Go SDK and related services not tagged and artefacts not created? Jim to check
- Event timestamps in Go SDK now strictly increasing

Value Descriptors

- These will be created in core-metadata rather than the device services
- Go SDK no longer needs to maintain a value descriptor cache: Cloud to confirm
- DS will need a callback from core-metadata in the event that a device profile is updated: Trevor to look into

Provision Watchers

  - Tony will review
  - Design changes in the interest of backward compatibility, updated on the issue during the meeting

Metadata changes

- Device
  - To hold profile and service by name only
    - Work is ongoing but unlikely to impact DS in the Fuji cycle
- DeviceProfile
  - PropertyUnit (to become a String)
    - Not for Fuji
  - PropertyValue (fields to be removed)
    - precision, size
      - Can be marked as deprecated in godoc
  - ResourceOperation (fields to be renamed)
    - “resource” becomes “devicecommand”, “object” becomes “deviceresource”
• New fields can be created for Fuji, with code to ensure both are present. Old fields to be marked as deprecated and removed in a future release. **Iain to create an issue** in core-contracts.

  ◦ DeviceResource: tag
    ▪ This is a descriptive field with user-defined semantics. Document as such.

**Requirements Document**

• Device Service registration at startup
  ◦ In core-metadata: if an existing record exists the DS should update it
  ◦ In registry: if existing don't start; deregister on shutdown
    ▪ C SDK #132 and GO SDK #217
      • Agreed that DS should deregister on shutdown but not perform checks at startup. Issues to be updated.

• Behaviour of GET (HTTP return, Events sent to core-data)
  ◦ GO SDK #240
    ▪ Not for Fuji

• JSON or CBOR via “Accept” request header
  ◦ Not for Fuji