Device and Device SDK Working Group
Notes for March 23 2020

Updates

• C SDK
  ◦ Extra fields in Readings now populated (dataType, floatEncoding, mediaType)

• Go SDK
  ◦ Discovery PR #448: Review comments addressed, Tony to re-review
  ◦ base64 floatEncoding – PR #462 (documentation) to be reviewed

EdgeX v2 API

• For Device Services - https://github.com/edgexfoundry/device-sdk-go/pull/467
  ◦ /device/all endpoint removed
  ◦ /callback endpoint split out for the different objects of interest (device, profile, watcher)
  ◦ PR #467 at device-sdk-go

• Device Profile simplification – PR #2447 at edgex-go
  ◦ Device services API will need to be updated to match if this is accepted

Hanoi release – potential features

For consideration:

• Event filtering
  ◦ Previously agreed that design work for this would take place in the Geneva cycle and should mirror the filtering facilities available in Application services

• Load management strategies
  ◦ How to shed load when service is overloaded (eg, too many simultaneous requests, autoevents taking longer to process than their specified interval)

• Device hierarchies
  ◦ Modelling a device that is able to manage other devices. This would likely require fundamental changes in EdgeX and is unlikely to proceed without strong commercial push

• Direct point-to-point communication from Device Service to Application Service
  ◦ This has been an aspiration for some time and should progress