

2019-09-30 DoF PoCD Subgroup

Agenda

Begin triage of Punch list and JIRA items for next revision of HL7 FHIR Point-of-Care Device Implementation Guide which will incorporate Service-Oriented Device Connectivity (SDC) implementation details as well as the current material based on IEEE 11073-10201 Medical Device Communications Domain Information Model (DIM)

Discussion of performance challenges of high-volume device data feeds in acute-care environme

Attendance

Stefan Karl (Philips)

Brian Reinhold (LNI / Continua)

Michael Faughn (Prometheus Computing / NIST)

John Rhoads (Philips, notes)

Meeting Notes

Began with IG need for additional **HL V2 mapping information**

- Should align where possible with material in draft SDC Implementation Guide in simplifier.net
- SDC Models fundamentally the same as in existing balloted HL7 FHIR Point-of-Care Device Implementation Guide, including alerting and control, with some differences in detail
- Mappings from V2 fields mostly straightforward to single FHIR element and can be adequately represented by mapping part of corresponding FHIR resource ElementDefinition in StructureDefinition; some more complicated cases such as MeasurementStatus (which maps to multiple elements in FHIR resource) will require separate explanatory text in IG

Discussion of **performance issues** in typical FHIR servers demonstrated by Draeger tests

- A particular problem is large volume of new Observation resources generated in simulation of typical acute-care scenarios. These involve much storage of duplicate information when basically only the value, and no other substantive elements, have changed. Is there a direction that the Patch resource or something similar could be developed to improve throughput in situations like these? Stefan will continue to investigate.

Meeting adjourned