HL7 Healthcare Devices/IEEE 11073 Working Group Meetings

2015.10.05 – 2015.10.08 – Atlanta, GA

See meeting documents posted @ http://www.hl7.org/Special/committees/healthcaredevices/docs.cfm?

Details posted on Titan Pad: Titan Pad: https://titanpad.com/P4eYa3TSfC

Beginning Sessions for 2015.10.05 – 2015.10.08

Welcome & Introductions
Review of IP / Patent Policy Review

Monday – Q3 Oct. 05, 2015

Recurring Participants (4)

- Stan Wiley (Dräger)
- Jan Wittenber (Center for Medical Interoperability)
- Paul Schluter (GE)
- Alpo Varri (Tampere University of Technology, Finland)
-

Q3-Specific Participants (17)

- Ken Fuchs (Center for Medical Interoperability)
- Todd Cooper (Center for Medical Interoperability)
- Joerg-Uwe Meyer (MT2IT)
- Kathryn Bennett (IEEE-SA)
- Anasthasie Sainvilus (IEEE-SA)
- Leslie Sistla (Microsoft)
- John Rhoads (Philips)
- John Garguilo (NIST)
- Stefan Schlichting (Dräger)
- Stephan Poehlsen (Dräger)
- Koichiro Matsumoto (Nihon Khoden)
- Masato Tanaka (Nihon Khoden)
- Chris Courville (Epic)
- Recurring participants

Other Participants Pool (note – use for future Qs if present) (30)

- Ewout Kramer (Furore)
- Ron Shapiro (Quera)
- Elizabeth Newton (Kaiser Permanente)
- Michael Faughn (Prometheus Computing)
- Leslie Stem (FDA)
- Terrie Reed (FDA)

- MaryKay McDaniel (Cognosanti)
- Toni Skokovic (Interfaceware)
- Clem McDonald (NLM)
- Norman Shaw (IEEE SA)
- Lisa Perry (IEEE SA)
- Matthew Graham (Mayo Clinic)
- Dan Vreeman (Regenstrief Institute)
- Mark Palmaffy (Center for Medical Interoperability)
- Paul Spadafora (Center for Medical Interoperability)
- Harry Rhodes (AHIMA)
- Gora Datta (Cal2Cal)
- Martin Rosner (Philips)
- Stefan Karl (Philips)
- Dmytro Rud (Roche Diagnostics International)
- Brian Reinhold (LNI/PCHA)
- Frank Ploeg (HL7 Netherlands0
- Mohd Anwar (NC A&T University)
- Masaaki Hirai (Nihon Khoden)
- Bruce Bray (University of Utah)
- David Hay (HL7 FMG)
- Mahesh Krishnan (DaVita)
- Matt Brzanschweig (DaVita/HCP)
- Barry Miller (DaVita/HQ)
- Teri Neal (Fresenius Medical Care)
- David Tap (ICSA Labs)

Minutes for Q3

- Session Summary
    - Patent policy and Anti-Trust statements of IEEE were presented and reviewed.
    - Attendee introductions were made.
    - Agenda revision 0.5 was reviewed.
    - Minutes from May 2015 WG meeting was reviewed.
    - The draft Policies and Procedures (document P&P) from the IEEE 11073 PoCD WG was reviewed.

- Motions
    - Approval of meeting agenda revision 0.5 – Passed: motion by Wiley seconded by Cooper
    - Approval of meeting minutes from May 2015 – Passed: motion by Fuchs seconded by Wittenber

- Action Items
    - None

Monday – Q4 Oct. 05, 2015

Q4-Specific Participants (18)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Ken Fuchs
- John Rhoads
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Todd Cooper
- Joerg-Uwe Meyer
- Kathryn Bennett
- Anasthasie Sainvilus
- Leslie Sistla
- Elizabeth Newton
- Masato Tanaka

Minutes for Q4

- Session Summary
  - Overview of IHE PCD Pump Model – RTMMS Content and DIM Profiling Tools
  - Content based on device specialization infusion pump 2.0
  - Next steps – preparing terms for inclusion in 10101b.
- Motions
  - None
- Action Items
  - None

Tuesday – Q1 Oct. 06, 2015

Q1-Specific Participants (19)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Michael Faughn
- Ken Fuchs
- John Rhoads
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Kathryn Bennett
- Anasthasie Sainvilus
- Masato Tanaka
- Leslie Stem
- Terrie Reed
- MaryKay McDaniel
- Toni Skokovic

Minutes for Q1

- Summary
    - Patent policy and Code of Conduct statements of IEEE were presented and reviewed.
    - Attendee introductions were made.
    - Results from HL7 Co-Chairs Meeting (J. Garguilo)
        - Review of results from HL7 Co-Chairs Meeting
            - US Realm meets every Tuesday.
            - PSS submission date end of next week (October 16).
            - Status of FHIR.
            - Corrective actions for DEV
                - Need to update 3 year plan
                - Need to post off-line Work Group meeting minutes to the HL7 website
        - Co-Chair nominations – submit nominations by Oct. 23 (T. Cooper's position expires in Jan. 2016; C. Courville to advise on his status as Co-Chair)
    - HL7 Status Report (J. Rhoads)
        - Review status of HL7 HCD Projects (reference: http://www.hl7.org/Special/committees/healthcaredevices/projects.cfm)
            - #850 – active
            - #595 - closed
            - #513 – inactive – proposing to close
            - Others to be investigated
        - Review of updates on other HL7 HCD related standard activities
            - Request for work on a spirometry report from ISO…..John Rhoads to drive and recruit additional contributing resources. Will present a draft PSS at the Jan. 2016 WG meeting.
            - IHE PCD V2.9 messaging standard will be launched with DEV as a co-sponsor.
            - IHE PCD ACM has constructs (adding trigger events) that are enabled in V2.9.
    - FDA UDI Update (T. Reed/Leslie Stem)
        - See posted presentation.
        - Update from FDA on UDI roll-out and desire for UDI support in standardized HL7 messages. Proposing transport of EUI-64 and UDI .
    - Time Synchronization (P. Schluter/J. Wittenber)
        - No presentation available. Defer to B. Reinhold (Q4 on Wednesday)
- Motions
    - None
- Action Items
    - Provide updated status of all DEV projects - J. Rhoads, T. Cooper, C. Courville, J. Garguilo
    - Defer Time Synchronization discussion to Q4 on Wednesday – Reinhold/Schluter
    - Report on results of UDI discussions from O&O WG meeting – Rhoads

Tuesday – Q2, Oct. 06, 2015

Q2-Specific Participants (17)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Michael Faughn
- Ken Fuchs
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto

- Masato Tanka
- Kathryn Bennett
- Anasthasie Sainvilus
- Norman Shaw
- Todd Cooper
- Joerg-Uwe Meyer

Minutes for Q2

- Summary

    - o IEEE Update (K. Bennett – see posted presentations)
        - Licensing with IEEE SA
            - Basic information and requirements and use cases to facilitate clarity on copyright compliance
            - Proposals via process flow diagrams leading to closure discussion in Jan. 2016 WG meeting.
            - Review of current guidance statements on copyright
            - IDCO Example: Seeking spreadsheet of codes and terms for distribution to EHR customers? What is "compliant product development?
            - C4MI Example
            - NIST Example
        - Standards Maintenance
            - A number of standards that are in distribution which will require update. These documents would be modified, then be re-balloted.
            - At the end of 10 years, a standard must be revised or withdrawn from circulation. Some documents that already have revision PARS, if not approved by 12/31/2018, would move to an "INACTIVE" state.
            - List of 4 PoCD WG standards that are at the 10 year age limit. Implications for submissions of new PARs. Example: Seeking spreadsheet of codes and terms for distribution to EHR customers? What is "compliant product development?
        - IEEE SA Public Review
            - Overview of IEEE system that uses the public review process.
            - Public review has already been implemented as of July 1, 2015.
            - A separate IEEE-SA system permits non-SA members to purchase a draft standard and make comments via the public review system. Governance rules for dispositioning comments from the public reviewer are different from those comments provided by the Ballot group.
            - System addresses improvements in outreach transparency.
            - https://publicreview.standards.ieee.org/public-review-web/public-app

- Motions
    - o None

- Action Items
    - o Send use cases for and examples of potential compliant product use to K. Bennett - IEEE 11073 PoCD WG members and HL7 DEV members.

Tuesday – Q3, Oct. 06, 2015

Q3-Specific Participants (16)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Michael Faughn
- Ken Fuchs
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matumoto
- Masato Tanaka
- Kathryn Bennett
- Anasthasie Sainvilus
- Michael Faughn
- Joerg-Uwe Meyer

Minutes from Q3

- Summary
  - IEEE SA Update - K. Bennett (see posted presentation)
    - 29 PARs open
    - 27 PARS in development
    - 2 drafts in ballot
    - 31 active standards
    - 5 standards in ballot at ISO
    - 25 adopted standards by ISO
    - 0 PARs due to expire by 12/31/2015
    - Ballot Status
      - P10101a Nomenclature Amendment
      - P10422 in comment resolution since July 2013
    - SASB Actions and Status since May 2015
    - Working Group P&Ps
    - Collaborative Relationships
    - eHealth Strategy
    - ProCom Ad-hoc for data base standards
    - 2015 Meetings/Conferences
    - 2016 IEEE SA Meetings: http://standards.ieee.org/about/sasb/2016calendar.pdf
  - IEEE SA Central Desktop - J. Wittenber/K. Bennett
    - IEEE SA Tool to support WGs
    - See video for training:
      https://www.youtube.com/watch?v=cT3ildpDMm4&feature=player_embedded
  - IEEE 11073 PoCD WG Membership Affirmation - J. Wittenber
    - Updated membership roster
    - Edited PoCD WG P&P content
  - Review of discussions during DPI calls - J. Wittenber
    - Focus on usability and update of the DIM
  - IEEE 11073 PHD Update - see posted presentation - J. Wittenber
    - Meeting Nov. 12-13, 2015 with Continua, Washington DC

- AAMI-UL JC2800 Update - J. Wittenber
  - Focus on standards for safety and security of interoperable medical systems
  - Discussion of formal liaison relationship with IEEE 11073 PoCD WG to be placed on agenda for Dec. 2015 F2F meeting in Newport Beach, CA.
- Motions
  - None
- Action Items
  - Defer IEEE 11073 PHD UDI update for IEEE 11073 overflow session on Thursday – J. Wittenber

Tuesday – Q4, Oct. 06, 2015

Q4-Specific Participants (13)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Michael Faughn
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Masato Tanaka
- Kathryn Bennett
- Joerg-Uwe Meyer

Minutes from Q4

- Summary
  - 11073 PoCD WG Membership Recruitment - J. Wittenber/K. Bennett
    - IEEE-SA can support membership recruitment with a call for participation: e-blast – prepare a request form to create the e-blast to IEEE-SA Marketing Dept.
  - 11073 - SDC - S. Schlichting/S. Poehlsen
    - Standards and Document Review
      - PAR Number corrected – approved.
      - SDC Google Group/DKE Work Group (40 active participants) activities since May 2015
      - Content from the ticketing system
      - IEEE SA Central desktop upload ("Drafts")
      - Proposed "socialization" telcos on OpenSDC: IEEE 11073, IHE PCD, JC2800 11/2015 – call for participation
      - Overview of draft documentations
        - 20701 SDC binding document: content collection started; stable since May; Content ready by Q1 2016.
        - 20702 MDPWS: content completed; clearer information on safety content; 3 remaining editorial tasks; Form ballot group and familiarize stakeholders. Assess ballot worthiness at the Jan. 2016 WG meeting

- - - 10207 BICEPS: content completed; improved the containment tree model; finalized all messages and services; 15 remaining editorial tasks; will implement 3 demonstrators to validate the model. A document of use cases is available. Form ballot group and familiarize stakeholders. Assess ballot worthiness at the Jan. 2016 WG meeting
      - OpenSDC
        - Reference implementation available by end of Oct. 2015.
        - "SDC for Dummies" document – Martin Kasparak to support
        - OR.Net will propose an IHE profile (IHE Germany) for OpenSDC
    - Challenges and Ballot Discussion
      - Ballot group balance requirements
      - Proposed ballot order: 20702, 10207, 20701
      - Introduce topic of PCD01 to OpenSDC communications and vice versa. OpenSDC to FHIR.
- Motions
  - None
- Action Items
  - Defer detailed discussion on 11073 PoCD WG Membership Recruitment to IEEE overflow session on Thursday - J. Wittenber

  - Initiate actions to introduce OpenSDC concepts to potential ballot group stakeholders - S. Schlichting

Wednesday – Q1 Oct. 07, 2015

Q1-Specific Participants (18)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Ken Fuchs
- John Rhoads
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Todd Cooper
- Kathryn Bennett
- Lisa Perry
- Joerg-Uwe Meyer
- Masato Tanaka
- Toni Skokovic
- Michael Faughn
- Clem McDonald

Minutes from Q1

- Summary
  - Patent policy and Anti-Trust statements of IEEE were presented and reviewed.

- o Attendee introductions were made.
- o P. Schluter was recognized for his Medallion award presented by the IEEE SA.
- o C. Courville announced a new job assignment outside of the US that will necessitate him to step down as an HL7 Co-Chair.
- o Terminology Update – P. Schluter
  - 11073-10101a Status
    - See posted slide presentation
    - Joint effort between IEEE 11073 PoCD WG, IEEE 11073 PHD, ISO TC 121 SC4, HL7 GAS SIG, Regenstrief Institute
    - Adds 660 terms
    - Re-circulation ballot currently underway.
    - RevCom review scheduled for Dec. 2015,, with anticipated approval on Dec. 5, and earliest publication possibly Dec. 9.
    - Terminology code assignment quality assurance tooling has been validated in this process.
    - IEEE 11073 PHD is now using RTMMS for all future terminology code assignments
    - Term Co-Management Issues with PHD
    - Lessons Learned
    - Collaborations
    - Mapping to LOINC
  - 11073-10101b Content Planning
    - Infusion Pumps
    - NMT
    - Ventilator Modes
    - Ventilator Terms
    - Et. al.
  - 11073-10101c Content Planning
    - Alarms and alerts
  - IDCO (11073-10103)
    - PAR request being submitted
- Motions – None
- Action Items – None

Wednesday – Q2 Oct. 07, 2015

Q2-Specific Participants (16)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Ken Fuchs
- John Rhoads
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Kathryn Bennett
- Lisa Perry

- Joerg-Uwe Meyer
- Masato Tanaka
- Michael Faughn
- Daniel Vreeman

Minutes from Q2

- Summary
  - Terminology Mapping
    - LOINC (Cooper/Schluter)
      - Harmonized Rosetta terms have been mapped to LOINC.
      - Proposal to use 10101b to make an amendment (concern regarding limit of 3 amendments that are permitted on a standard).
      - There is no ANSI-accredited process in LOINC for balloting a mapping.
      - Proposal from Cooper for an immediate ballot of the mapping as a normative annex. Issue PAR application by Dec. 9.
      - 11073-10101~~1~~4 mapping of 11073-10101 to LOINC; 11073-101015
    - SNOMED-CT (Wittenber)
      - A few t-cons focusing on the scope and nature of the relationship between 11073 and IHTSDO.
      - Concerns about resources and scope of project (several 1000 terms).
      - Identifying with alternatives – 11073 mappings to LOINC and use this content to start the project.
      - IHTSDO seeking proposal from 11073. IHTSDO already has a MoU with Regenstrief.
      - SNOMED International is driven by its members, countries. It is less likely that device considerations will be a strong driver at SNOMED. LOINC does have internal terminologists who are already involved in terminology mapping projects with SNOMED International.

  - IEEE 11073-10101b (Schluter)
    - Infusion pumps and infusion events (IHE PCD PIV and IPEC)
    - Ventilator modes
    - NMT
    - WCM for ECG waveforms
    - IHE PCD DMC
    - IHE CD MEM LS
    - Generalized Signal Quality Index
    - Observation Identifiers and Settings

  - 11073-10101c (Schluter)
    - IHE PCD Rosetta identifiers for events, alerts, and alarms

- Motions
  - Create a new PAR 11073-10101.4 that maps 11073-10101 terms to LOINC terms, based on collaborative mapping work completed to-date and that a PAR be issue as soon as possible: offered by Cooper; seconded by Wiley. Passed unanimously.
  - Create a new PAR on 11073-10101b, content consistent with presentation proposal. offered by Wittenber; seconded by Schluter. Passed unanimously.

- Action Items
  - None

Wednesday – Q3 Oct. 07, 2015

Q3-Specific Participants (17)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Ken Fuchs
- John Rhoads
- Chris Courville
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Kathryn Bennett
- Lisa Perry
- Joerg-Uwe Meyer
- Masato Tanaka
- Michael Faughn
- Mark Palmaffy

Minutes from Q3

- Summary
  - NIST Tooling:
    - IHE PCD v2 Tooling, RTMMS (Garguilo)
      - See posted presentation content
      - Introduction of RTMMS development team members
      - Overview of Validation Tools
      - IGAMT
      - TCAMT
      - DIM Editor
      - IHE PCD Change Requests 109-121
      - IHE Japan Connectathon Event 7-11 Sep. 2015
      - Going from SQLDB to MongoDB
      - LOINC mapping views

    - DIM Tooling Update (Faughn)
      - See posted presentation
      - Background on DIM development
      - Device Profile Editor
      - Recent Efforts
      - FY 2016 Goals
    - IEEE Publishing Tooling
    - Discussion about tooling roadmap

- Motions
    - None
- Action Items
    - None

Wednesday – Q4 Oct. 07, 2015

Q4-Specific Participants (24)

- Recurring Participants from Q3 on Monday
- John Garguilo
- Ken Fuchs
- John Rhoads
- Chris Courville
- Koichiro Matsumoto
- Kathryn Bennett
- Lisa Perry
- Joerg-Uwe Meyer
- Masato Tanaka
- Toni Skokovic
- Mark Palmaffy
- Harry Rhodes
- Matthew Graham
- Gora Datta
- Martin Rosner
- Michael Faughn
- Dmytro Rud
- Brian Reinhold
- Frank Ploeg
- Mohd Anwar

Minutes from Q4

- Summary

    Hosting Mobile Health (Datta/Graham)
    - mFHAST
        - Provide standards for communicating health information with "short messages"
        - Low-cost, low infrastructure, low learning-curve
        - Use Cases: diabetes, smoking cessation, weight management, et. al.
        - Immunization use case
        - Barrier for adoption

    - Consumer Mobile Health Functional Framework – cMH2F
        - Define security, privacy, and data control standards for secure mobile health apps
        - How to interact with PHR and HER systems
        - White paper that will go to ballot in Jan. 2016

- - Limited set of use cases
  - Request liaising with IEEE 11073

- FHIRframe
  - Development of mobile APIs
  - Working with Continua
  - Request liaising with IEEE 11073
  - Mobile Health Weekly Friday calls 11:00 EDT
  - 100,000 Health Apps already for IOS platform
  - Tom Ericsson (BT SIG) and mobileHealth SoU – HL7 HQ has prepared a SOU with the BT SIG.
  - 21st Century outlook:

Continua Alliance Update (Reinhold)
- Remote Patient Monitoring
  - See posted presentation
  - Maps Continua end-to-end architecture
  - Health devices use IEEE 11073-20601 and BT low energy profiles
  - PCHA data in IHE

- Motions
  - None
- Action Items
  - None

Thursday – Q1 Oct. 08, 2015

Q1-Specific Participants (23)

- Recurring Participants from Q3 on Monday
- Ken Fuchs
- John Rhoads
- Chris Courville
- Joerg-Uwe Meyer
- Mark Palmaffy
- Michael Faughn
- Brian Reinhold
- Stefan Schlichting
- Stephan Poehlsen
- Masato Tanaka
- Masaaki Hirai
- Ewout Kramer
- Stefan Karl
- Ron Shapiro
- Dmytro Rud
- Todd Cooper
- Matthew Graham
- Bruce Bray
- David Hay

Minutes from Q1

- Summary
  - Patent policy and Anti-Trust statements of IEEE were presented and reviewed.
  - Attendee introductions were made.
  - T. Cooper was re-elected as a HL7 Co-Chair.
  - Hosting FHIR WG (HL7 HCD Project #1103)
    - Review DSTU2 Resources (Kramer)
      - Not all parts of the specification are equally mature in DSTU 2.0.
      - Expect DSTU 2.1 to be released that focuses on workflow topics. To be determined by May 2016 HL7 WG meeting. New resources can be included in 2.1.
    - Some DSTU2.1 Resources are being frozen:
      - Final list @ http://wiki.hl7.org/index.php?title=FHIR_Ballot_Prep
      - This URL also includes a timeline for 2.1
      - NOTE: The group reviewed these and saw no issue for the device-related work.
      - "frozen" indicates that there will be no changes of these DSTU2 resources before DSTU3, unless there are major issues identified.
      - Note, OBSERVATION, VALUESET, and others have been "frozen"
      - Introduced concept of maturity metric for each resource ("0"=draft; "5"= nearly normative; etc.); to get to level "2", artifact has to be tested by 3 independent parties at a Connectathon…see TitanPad links.

    - T.Cooper provided a general review / overview of device-related FHIR resources and profiles. The following Links chart the group's discussion:
      - https://www.hl7.org/fhir/resourcelist.html
      - https://www.hl7.org/fhir/devicemetricobservation.html
      - https://www.hl7.org/fhir/resource.html#maturity
      - http://wiki.hl7.org/index.php?title=DSTU_2_QA_guidelines
      - https://docs.google.com/spreadsheets/d/18HfXF7mUCUV7jACCG0oejFp6D-ibtvbmcgywNhn76lw/edit#gid=0
      - http://wiki.hl7.org/index.php?title=FHIR_Connectathon_10

    - Discuss mACM effort in IHE ITI (Courville/Cooper)
      - Using FHIR to communicate alerts to the clinician
      - Trial use in IHE ITI (published in August 2015)
    - Roadmap for FHIR
      - Now working on DSTU 3.0, expected to be published for end of 2017
      - Primary expansion will be in the area of workflow support resources + care continuity
    - 2016 January Connectathon (Cooper)
      - Process for participating: FHIR management group determines the tracks for the Connectathon (David Hay coordinates). See as an example, "HL7 FHIR 10" on the web.
      - Use cases…combination of Continua devices and PoCD devices (vital signs monitor, infusion pump, and ventilator).

- Todd to drive a kick-off web-conference to coordinate the preparation by HCD participants in the Connectathon.
- Draeger has 2 interns working on OpenSDC-to-FHIR converter. Also convert OpenSDC-to-PCD01 (DOC).
- Sign-up for Connectathon has had more than 100 participants – January participants are strongly requested to sign-up NOW.
  - Interested parties included Continua, C4MI, OpenSDC / Draeger, QVera (Don), Dr. Meyer
  - FMG will meet in next 2-4 weeks to consider the scenarios
- Review of FHIR-DEV PSS (Cooper)
  - Proposing using current PSS to create a new PSS follow-on project to add maturity and alerts.
- Motions
  - To authorize closing of current FHIR DSTU Project #1103 and to open a new PSS, targeting work for DSTU3 that will incorporate the work the current in #1103 and add work for FHIR quality/maturity of the current resources and profile. Motion offered by Cooper and seconded by Courville. Passed unanimously.
- Action Items:
  - Convene web-conference to coordinate work plan for January 2016 FHIR Connectathon by HCD participants – T. Cooper / C. Courville
- Supplemental Comments -
  - Alpo's comments: Here in Tampere University of Technology we'll have a course called Health Information Systems Laboratory during the 2016 spring term. We plan to set up a local FHIR server to which our student groups connect with their software... like a poor man's connecthatcon.

Thursday – Q2 Oct. 08, 2015

Q2-Specific Attendees (22)

- Recurring Participants from Q3 on Monday
- Ken Fuchs
- John Rhoads
- Chris Courville
- Joerg-Uwe Meyer
- Masato Tanaka
- Mark Palmaffy
- Michael Faughn
- Stefan Schlichting
- Stephan Poehlsen
- Todd Cooper
- Masaaki Hirai
- Koichiro Matsumoto
- Barry Miller
- Matthew Brzanschweig
- Mahesh Krishnan
- Kathryn Bennett
- Teri Neal
- David Tao

Minutes from Q2

- Summary
    Dialysis Support Update
    - See posted presentation
    - Background
        o No dialysis machine interoperability yet
        o Various proprietary machine data communication protocols
        o Interested in "teledialysis" – remote monitoring of dialysis
            - Driven by an international shortage of nephrologists
            - Only 10% of U.S. based dialysis is at home today
    - Key use cases
        o Telemedicine and in-center monitoring
            - Monitoring clinical data
                - Direct lab feeds
                - Device/patient interface
                - Dialysis EMR
                - Remote monitoring: eICU – example in Bogota, Columbia South America; in home remote monitoring
            - Monitoring of biomed data for maintenance
            - Monitoring of actions taken by user
    - Key stakeholders
        o Most dialysis device vendors
        o US dialysis plus international providers (about 80-90% represented by group)
        o Government – CMS ESRD program
        o DaVita, Tufts Medical Center, Todd Cooper, Teri Neal (FMC), et. al.
    - Standardization
        o Support the definition of an IEEE-compliant interface for machine interactions of dialysis devices
        o Options
            - IEEE 11073-10101 Amendment to the standard for terminology (possibly -10101b amendment)
            - IEEE 11073-103xx Specializations (leveraging -10316 from 2006)
            - HL7 Implementation guide
            - IHE Profile
            - As well as OpenICE and OpenSDC
        o Actions in process
            - Use Case Development (including biomedical maintenance and remote control)
            - Message Definition Development
            - Value set Development
        o Current Status
            - Devices are not part of the communications link – tablets and other computing devices provide this access.
            - Home therapies are usually performed by the patient. A base assumption is that the device and the user interface are facilitated by Wi-Fi access.
            - Have today 181 attributes, but expected to grow by 50%.
            - "genmymodel.com"
        o Questions for today
            - Prioritization (human dialysis)

- - - Should this work be done in IHE PCD v IEEE 11073 vs. HL7?
        - Strong desire to use HL7 FHIR and make cloud based
  - Motions
    - None
  - Action Items
    - Jan W. volunteered to support the dialysis team as they formalize their work from this year into UML models and 11073 terminology definitions

Thursday – Q3 Oct. 08, 2015

Q3-Specific Attendees (18)

- Recurring Participants from Q3 on Monday
- Ken Fuchs
- John Rhoads
- Chris Courville
- Mark Palmaffy
- Joerg-Uwe Meyer
- Michael Faughn
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Masato Tanaka
- Kathryn Bennett
- Barry Reinhold
- Stefan Karl
- Paul Spadafora

Minutes from Q3

- Summary

  - C4MI Update
    - Overview
      - See posted presentation
      - Vision
      - Mission
      - 501 © (3) public charity
      - Driven by healthcare system CEOs
      - Vendor outreach and request for collaboration
      - Use purchasing power of members to influence adoption of open interoperability standards
    - Plug and Play Interoperability Platform
      - Bedside Data Broker
      - Enterprise Data Broker
      - Multi-Enterprise Router
        - Interoperability Maturity Model
        - Protocol Interoperability Manager (Paul transitions to Marc)
        - Built on 10101, 10201, IHE PCD, Open ICE with DDS, OpenSDC

- o Request for Collaboration (RFC)
- o Collaboration Overview
- MDI Security
  - o Revision to the 11073 classic profiles
  - o See Jan's posted Cybersecurity White Paper
    - Survey of healthcare domain standards and their treatment of communications security issues
    - Include ISO 27999 and JC2800 WG03 TG02 to bibliographies
    - Additional inputs:
      - Stan: Additional bibliography content collected by AAMI-UL JC2800 WG03 TG02
      - Stan: Reference work from ASTM E31.25 Committee
      - Alpo: Add ISO DIS 27799: https://www.iso.org/obp/ui/#iso:std:iso:27799:dis:ed-2:v1:en
      - Alpo: The ISO&IEC project team revising 62304 Software Life Cycle Processes standard wants to address cybersecurity better than now but the issue is open. Therefore inputs are welcome to us.
- Motions
  - o None.
- Action Items
  - o None.

Thursday – Q4 Oct. 08, 2015

Q4-Specific Attendees (17)

- Recurring Participants from Q3 on Monday
- Ken Fuchs
- John Rhoads
- Chris Courville
- Mark Palmaffy
- Joerg-Uwe Meyer
- Michael Faughn
- Stefan Schlichting
- Stephan Poehlsen
- Koichiro Matsumoto
- Kathryn Bennett
- Barry Reinhold
- Stefan Karl
- Paul Spadafora

Minutes from Q4

- Summary

  - New Standards Planning:
    - Optimized Association
      - o Impacts to 10201: PHD, SDC (10207 - BICEPS);
      - o Impacts to 10101:
      - o Impacts to 20101:
    - Point to Point over multiple Physical Layers

- CNS convergence
  - We are trying to be transport agnostic. How are clients discovered if one is transport agnostic?

- Specializations
  - Dialysis et. al.
  - 20 PHD standards
  - 10301 Infusion
  - 10302 Physiological patient monitors
  - 10303 ventilator
- Remote Control
  - Have a PAR already defined. Closely tied with Security.
- Others?
  - Private Terms (Schluter)
    - Code in the upper 4K that uniquely identified the term as a vendor private term.
    - High frequency ventilator terms
- UDI Summary from O&O WG Meeting
  - Should O&O provide a way to include the parsed-out components in the UDI separately or only include some form of the entire code – decision: provide for a way to include the parsed-out components.
  - Should, in including the whole content, it will be in the form of a typical scanner output ("AIDC") or should it be "human readable form" (HRF)? Decision: "human readable form".
- Standards Roadmap Planning:
  - HL7 HCD 3 Year Plan
    - GAS, FHIR, mHealth, Dialysis
  - IEEE 11073 Plan
    - See posted content from Jan.
- Motions
  - To delegate the decision on Private terms designation methods to the IHE PCD F2F meeting – offered by Schluter and seconded by Courville. Motion passed unanimously (10101b).
- Action Items
  - None

Adjourn Meeting

- Motion to adjourn – offered by Cooper seconded by Wittenber. Motion passed unanimously.