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)
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)
      - #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
Minutes for Q2

Summary

- 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.

- Motions
  - None

- Action Items
  - 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
  - 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
  o None

• Action Items
  o 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
    o 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
    o 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
        o 20701 SDC binding document: content collection started; stable since May; Content ready by Q1 2016.
        o 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
o 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
  o None

- Action Items
  o Defer detailed discussion on 11073 PoCD WG Membership Recruitment to IEEE overflow session on Thursday - J. Wittenber
  o 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
  o Patent policy and Anti-Trust statements of IEEE were presented and reviewed.
Attendee introductions were made.

P. Schluter was recognized for his Medallion award presented by the IEEE SA.

C. Courville announced a new job assignment outside of the US that will necessitate him to step down as an HL7 Co-Chair.

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
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.
  - 11073-101044 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 Poehlson
- 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_Ballon_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
      - https://docs.google.com/spreadsheets/d/18HtXF7mUCUV7jACCG0oejFp6DjbtvbcgywNhn76lw/edit#gid=0
    - 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.
  o Interested parties included Continua, C4MI, OpenSDC / Draeger, QVera (Don), Dr. Meyer
  o 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
  o 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:
  o Convene web-conference to coordinate work plan for January 2016 FHIR Connectathon by HCD participants – T. Cooper / C. Courville
• Supplemental Comments -
  o 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 connectathon.

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**
  - No dialysis machine interoperability yet
  - Various proprietary machine data communication protocols
  - 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**
  - 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
  - Monitoring of biomedical data for maintenance
  - Monitoring of actions taken by user

- **Key stakeholders**
  - Most dialysis device vendors
  - US dialysis plus international providers (about 80-90% represented by group)
  - Government – CMS ESRD program
  - DaVita, Tufts Medical Center, Todd Cooper, Teri Neal (FMC), et. al.

- **Standardization**
  - Support the definition of an IEEE-compliant interface for machine interactions of dialysis devices
  - 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
  - Actions in process
    - Use Case Development (including biomedical maintenance and remote control)
    - Message Definition Development
    - Value set Development
  - 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”
  - Questions for today
    - Prioritization (human dialysis)
- Should this work be done in IHE PCD vs. 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 Poehlson
  - 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
- Request for Collaboration (RFC)
- Collaboration Overview

**MDI Security**
- Revision to the 11073 classic profiles
- 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: 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**
- None.

**Action Items**
- 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
    - Impacts to 10201: PHD, SDC (10207 - BICEPS);
    - Impacts to 10101:
    - Impacts to 20101:
  - Point to Point over multiple Physical Layers
• CNS convergence
  o We are trying to be transport agnostic. How are clients discovered if one is transport agnostic?

• Specializations
  o Dialysis et. al.
  o 20 PHD standards
  o 10301 Infusion
  o 10302 Physiological patient monitors
  o 10303 ventilator

• Remote Control
  o Have a PAR already defined. Closely tied with Security.

• Others?
  o 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
  o 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.
  o 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:
  o HL7 HCD 3 Year Plan
    • GAS, FHIR, mHealth, Dialysis
  o IEEE 11073 Plan
    • See posted content from Jan.

• Motions
  o 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
  o None

Adjourn Meeting

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