Minutes of the meeting of the Health Care Devices WG of HL7 at the HL7 WGM, San Antonio, Texas, January 15-20, joint meeting with ISO/IEEE 11073 Medical Device Communications General Committee

John Rhoads, presiding co-chair, HL7 Health Care Devices WG

Jan Wittenber, chairman of IEEE Upper Layers Committee, chairman pro tem of IEEE 11073 General Committee (so designated by co-chairs Todd Cooper and Melvin Reynolds)

Minutes taken by John Rhoads

See Health Care Devices WG documents N353-N361

Monday, January 15, Q1

Present:

Jan Wittenber, Philips Healthcare
John Rhoads, Philips Healthcare
John Garguilo, NIST
Sandra Martinez, NIST
Carol Macumber, Apelon
Trish Williams, HL7 Australia
Kathryn Bennett, IEEE
Masaaki Hirai, Nihon Kohden
Ken Fuchs, IEEE
Paul Schluter, GE Healthcare
Allen Hobbs, Kaiser Permanente

The number of WG members present constitute a quorum.

Review of Agenda
Approval of minutes deferred to a later session
Co-chair elections

Review of HL7 HCD Activities

Topics discussed:

joint work with Generation of Anesthesia Standards on CDA representation of device data
HL7 over the spectrum of care - work ongoing on the classical starting environment (acute care), beginning on long term care, HL7 HCD has mostly deferred to IHE PCD, IEEE PHD, and Continua

Status of Work in IEEE 11073 (Bennett presenting) - start

**Monday Q2**

Present:

Jan Wittenber, Philips Healthcare
John Rhoads, Philips Healthcare
John Garguilo, NIST
Sandra Martinez, NIST
Kathryn Bennett, IEEE
Masaaki Hirai, Nihon Kohden
Ken Fuchs, IEEE (not on WG listserv, so not voting on HL7 HCD matters)
Trish Williams, HL7 Australia (not on WG listserv, so not voting on HL7 HCD matters)
Paul Schluter, GE Healthcare
Allen Hobbs, Kaiser Permanente

The number of WG members present constitute a quorum.

**Vote to create additional co-chair position in the HL7 Health Care Devices WG**

John Rhoads stepped down temporarily as presiding co-chair in order to make a motion and to participate in discussions in which he could be perceived to have an interest, designating Jan Wittenber as co-chair pro tem presiding over the deliberations and vote on the question. He moved that an additional co-chair position be created, and nominated Alan Hobbs as interim co-chair in the newly created position, pending a regular co-chair election at the next HL7 Working Group meeting.

The voice vote on the motion to add a co-chair position was unanimous in favor.
The paper ballot on the person to be interim co-chair in that position was unanimous for Allen Hobbs.

At this point, John Rhoads resumed as presiding co-chair of HL7 HCD. Discussion of HL7 status resumed

Topics discussed:

Recent publications and work in progress in individual ISO/IEEE 11073 family standards documents

Projected mappings between 11073-10101 nomenclature and other nomenclatures such as LOINC and IHTSDO.

Change in IEEE balloting due to ANSI requirement: ballot group formerly could not be in more than 50% of one category (e.g. vendor). New threshold is no more than 33% of one category.

Monday Q3

Present:

Jan Wittenber, Philips Healthcare
John Rhoads, Philips Healthcare
John Garguilo, NIST
Sandra Martinez, NIST
Kathryn Bennett, IEEE
Ken Fuchs, IEEE (not on WG listserv, so not voting on HL7 HCD matters
Paul Schluter, GE Healthcare
Allen Hobbs, Kaiser Permanente

Topics discussed

Do we need to stop co-locating ISO/IEEE 11072 with HL7 Working Group Meetings. Issue is that ISO has a policy that ISO meetings cannot be where there is a substantial meeting fee, as at HL7. Issue raised by ISO TC 215 secretariat Joe Llewelling (AAMI). Disposition: refer question to 11073 leadership.

Monday Q4
Present:

Jan Wittenber, Philips Healthcare
John Rhoads, Philips Healthcare
John Garguilo, NIST
Sandra Martinez, NIST
Kathryn Bennett, IEEE
Ken Fuchs, IEEE (not on WG listserv, so not voting on HL7 HCD matters)
Paul Schluter, GE Healthcare
Allen Hobbs, Kaiser Permanente

Topics discussed

11073 General Committee Co-chair status -- Todd Cooper and Melvin Reynolds do not generally have funding to attend meetings, and they have not been able to attend some recent meetings, including this one. This may create problems having meetings and keeping records in compliance with relevant policies and procedures.

Jan Wittenber will initiate a meeting of all co-chairs and other leadership (Upper Layers, Lower Layers, General Committee, Personal Health Devices, and sponsor) to find out intentions of incumbents, consider adding a co-chair, consider meeting venue issues, and report back.

National Institute of Standards and Technology (NIST) device communications testing

Presented by John Garguilo, Sandra Martinez

Presented results from new "isolated" test tools used in Pre-Connectathon testing by Integrating the Healthcare Enterprise (IHE) Patient Care Device (PCD) domain.

Discussion of imminent (end of January) roll-out of Rosetta Terminology Mapping Management Service (RTMMS) for collaborative terminology management between, initially, IHE PCD and ISO/IEEE 11073-10101 Nomenclature (and eventually, mapping to related terminology items from LOINC and SNOMED). Presented process by which terms will be reviewed.

Have recently added annotated ECG terms, also systematic name, common term, acronym and term description information from the standard.

Garguilo demonstrated new RTMMS capabilities.

See slides associated with this session:
Bennett
Garguilo
HL7 Working Group Meetings, Tuesday, January 16, 2012

Tuesday Q1

Present:

Alan Hobbs, Kaiser Permanente
Paul Schluter, GE Healthcare
Martin Entwistle, Palo Alto Medical Foundation
Ken Fuchs, Mindray North America
Kathlryn Bennett, IEEE
Carol Macumber, Apelon
Sandra Martinez, NIST
John Rhoads, Philips Healthcare, presiding co-chair, HL7 Health Care Devices WG
Jan Wittenber, Philips Healthcare, Chair pro tem of IEEE 11073 General Committee

Topics discussed:

Presentation by Martinez, Garguilo from National Institute of Standards and Technology (NIST) on Test Case Authoring and Management Tool

Tool will be used for HL7 profile conformance testing in Integrating the Healthcare Enterprise Patient Care Device (IHE PCD) domain, and it is proposed for change tracking and maintenance.

Intended scope of:

RTMMS database - should it include unit of measure co-constraints? Enumerations?

Similarly, should the IEEE 11073-10101 standard contain these things?

Lively discussion.

Adjourned at 5:15.

Tuesday Q2

Present:

Alan Hobbs, Kaiser Permanente
Paul Schluter, GE Healthcare
Martin Entwistle, Palo Alto Medical Foundation
Ken Fuchs, Mindray North America
Il Kon Kim, Kyongook National University, Korea
Discussion of the process of moving currently available forms of the 2004 edition of IEEE 11073-10101 standard and merging with more recent editions to make a new edition.

Consensus to initiate a "tiger team" effort to make a concentrated effort to organize the data needed for this.

Details of life cycle of a term in RTMMS.

Very lengthy discussion of hierarchical containment of metrics, Paul Schluter offering several representations and asserting a close relationship with event representation. No conclusion at this time.

**Tuesday Q4**

Alan Hobbs, Kaiser Permanente
Paul Schluter, GE Healthcare
Ken Fuchs, Mindray North America
Kathryn Bennett, IEEE
Sandra Martinez, NIST
John Rhoads, Philips Healthcare, presiding co-chair, HL7 Health Care Devices WG
Jan Wittenber, Philips Healthcare, Chair pro tem of IEEE 11073 General Committee

Continuing the event discussion, Wittenber suggested another "tiger team" with representatives from vendors to collect and collate alarms and events emitted by the devices.

Further discussion of representation of events and attributes.

Displayed and discussed Griesser UML model generated from NIST ICSGenerator XML schema.

Adjourned at 5 pm

**HL7 Working Group Meetings, Wednesday, January 17, 2012**

**Wednesday Q1**
Present:
Jan Wittenber, Philips Healthcare, chair pro tem of IEEE 11073 General Committee
John Rhoads, Philips Healthcare, presiding co-chair, HL7 Health Care Devices WG
Terri Monk, Duke University
John Walsh, Massachusetts General Hospital
Sadami Tabesaba, HL7 Japan
Masaaki Hirai, HL7 Japan
Carol Macumber, Apelon, for US Veterans Administration
Tricia Greim, US Veterans Administration
Paul Schluter, GE Healthcare
Martin Hurrell, HL7 Generation of Anesthesia WG

Martin Hurrell reported on joint project with Generation of Anesthesia WG (G.A.S) to create a Clinical Documents Architecture R2 compliant representation of device data.

Project Scope Statement for project approved at Domain Exports Steering Division meeting on Monday. Meeting pointed up the need to study vital signs representations in Patient Care WG. (Later conversations outside the meeting pointed out the need to harmonize with existing Structured Documents work).

A very simple blood pressure example was presented and discussed.

The appropriate use of such a data representation was much discussed.

Wednesday Q2

Present:
Jan Wittenber, Philips Healthcare
Paul Schluter, GE Healthcare
Alan Hobbs, Kaiser Permanente
John Rhoads, Philips Healthcare

The quarter was planned to be a joint telephone conference with domain experts on ventilator terminology, but the cost of using a conference phone was prohibitive, so the session was cancelled.

Wednesday Q3

Present:
Jan Wittenber, Philips Healthcare, chair pro tem of IEEE 11073 General Committee
John Rhoads, Philips Healthcare, presiding co-chair, HL7 Health Care Devices WG
Tracy Rausch, DocBox
John Garguilo, NIST
Sandra Martinez, NIST
Sadami Tabesaba, HL7 Japan
Masaaki Hirai, Nihon Kohden, HL7 Japan
IEEE 11073 Personal Health Device status update

Expected slide deck was not received, so Wittenber and Schluter gave an update based on minutes and tutorial slides.

ASTM Integrated Clinical Environment questions to 11073 (Rausch)

How will 11073 approach security concerns

Demographics need updates to harmonize with, e.g. HITSP

Communications

Patient location

Control

Wednesday Q4

Present:

Jan Wittenber, Philips Healthcare, chair pro tem of IEEE 11073 General Committee
John Rhoads, Philips Healthcare, presiding co-chair, HL7 Health Care Devices WG
Tracy Rausch, DocBox
Sandra Martinez, NIST
Allen Hobbs, Kaiser Permanente
Sadami Tabesaba, HL7 Japan
Masaaki Hirai, Nihon Kohden, HL7 Japan
Paul Schluter, GE Healthcare

Continuation of ICE and 11073 harmonization discussion

Simple example of common of significant lack of communication between devices: NIBP cuff placed on same arm as (1) an SpO2 sensor (2) an IV line. ICE proposes a higher level of integration which could assist by displaying or asking the question, is the clinical rule that being followed. Or an ICE supervisor may be able to integrate the information from another source.

Discussion of ICE supervisor and 11073 as layers in a layered system, and the regulatory implications of that.

Including and processing "Quality-of-measurement" data and requirements for use cases.
Requirement to be able to distinguish statically specified or dynamically changing quality of measurements attributes.

Thursday, January 19, 2012

**Thursday Q1**

Present:
Paul Schluter, GE Healthcare
Tracy Rausch, DocBox
Allen Hobbs, Kaiser Permanente, presiding co-chair
Sandra Martinez, NIST
John Garguilo, NIST
John Rhoads, Philips Healthcare
Jan Wittenber, Philips Healthcare

A co-chair and sufficient WG members were present to constitute a quorum.

Proceedings:

The winners of the co-chair election, Todd Cooper and Allen Hobbs, were announced and congratulated.

John Garguilo made a motion to reconsider a motion passed earlier this week to name Allen Hobbs on an interim basis moved that, since Allen Hobbs had won the election to fill the additional co-chair position and also the regular election, the intent of the WG in establishing the extra position was not being met, and that intention would be best met by appointing John Rhoads as interim co-chair. A quorum be

Discussion Topics:

DCM4MD project intends to ballot their document again in the May ballot cycle (Rhoads)

Review of work in IHE PCD Point-of-Care Identity Management work: draft supplement for trial implementation in preparation for May publication cycle (Rhoads).

Discussion of AAMI Health IT Interoperability ad hoc group white paper work (Rhoads)

**Thursday Q2**

Vincent McCauley, McCauley Software, HL7 Australia
Paul Schluter, GE Healthcare
Masaaki Hirai, Nihon Kohden, HL7 Japan
Sadami Tanesaba, HL7 Japan
Tracy Rausch, DocBox
Ilkon Kim, Kyongook National University, HL7 Korea
Allen Hobbs, Kaiser Permanente, presiding chair
Sandra Martinez, National Institute of Standards and Technology (NIST)
Wittenber presented Revision and Development based on IEEE 11073 standards and revision PARs, but also emphasizing the detailed interdependancies with other standards and profiling groups (Health Level 7, Integrating the Health Enterprise Patient Care Device domain, NIST, International Electrotechnical Commission, International Healthcare Terminology Standards Development Organization, Continua Alliance, International Standards Organization).

Tracy Rausch agreed to work with Wittenber on adding detail to the interdependency matrix.

**Thursday Q3**

Present:

Paul Schluter, GE Healthcare
Tracy Rausch, DocBox
Allen Hobbs, Kaiser Permanente, presiding chair
Sandra Martinez, National Institute of Standards and Technology (NIST)
John Garguilo, NIST
John Rhoads, Philips Healthcare
Jan Wittenber, Philips Healthcare

**IEEE 11073 Upper Layers standards status:**

Comments have been received and are being incorporated on documents IEEE 11073-10201, Domain Information Model, and -20101 (MDAP Base Standard).

**Lower Layers status:**

-30503 wLAN withdrawn administratively

Internetworking services PAR withdrawn administratively with intent to resubmit new PAR

Nomenclature Globalization Verification and Validation team to be set up by a subcommittee (Martinez, Schluter, Wittenber Rhoads, Garguilo, Hobbs) at teleconference on 1/26/2012, with the task of developing a set of new nomenclature terms based on Rosetta set based on existing requests. See "Dev/Rev Plans" exhibit in meeting documents.

**Thursday Q4**
Present:

Paul Schluter, GE Healthcare
Tracy Rausch, DocBox
Allen Hobbs, Kaiser Permanente, presiding chair
Sandra Martinez, National Institute of Standards and Technology (NIST)
John Garguilo, NIST
John Rhoads, Philips Healthcare
Jan Wittenber, Philips Healthcare

Continuation of Dev / Rev Plan discussion, with extended discussion of alternatives for the form of reference IDs. To be referred to subcommittee mentioned above under Q3.

Friday Q1

Present:
Paul Schluter, GE Healthcare
Jan Wittenber, Philips Healthcare, IEEE 11073 chair pro tem
John Rhoads, Philips Healthcare

As a quorum not present, discussion was informal work session only.

"Nomen" document (see meeting documents) drafted for further discussion by the larger group.

Meeting adjourned.

Minutes prepared by John Rhoads.

http://www.hl7.org/documentcenter/public/wg/healthcaredevices/TermWorkflow.1a.docx