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ISO/TC 215 Health Informatics

Liaison Report to ISO/IEC JTC 1

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1. Introduction

At its meeting at the Gold Coast in Australia in Oct 2007, JTC1 resolved to establish a liaison with ISO/TC 215 (Health Informatics) - with Richard Dixon Hughes (Australia) appointed as its liaison officer until the 2008 JTC 1 plenary meeting in Nara, Japan.

At its subsequent plenary in Göteborg, Sweden, TC 215 accepted the JTC 1 liaison and resolved to appoint Dr Adrian Stokes (UK) to be its liaison officer to JTC 1.

A detailed presentation on ISO/TC 215 and its activities was given by Richard Dixon Hughes at the November 2008 JTC 1 Plenary in Nara and is available from the JTC 1 portal as document ISO/IEC JTC 1 N 9421 at:

<http://isotc.iso.org/livelink/livelink/fetch/2000/2122/327993/755080/7740493/JTC001-N-9421.pdf?nodeid=7740755&vernum=0>

In Nara, JTC 1 resolved to continue the TC 215 liaison and reappointed Richard Dixon Hughes as liaison officer through the 2009 JTC 1 plenary in Tel Aviv, Israel.

Since the JTC 1 Plenary in Nara, there has only been one meeting of ISO/TC215 - the plenary and working group meeting in Edinburgh, Scotland, UK in April 2009. Both Dr Stokes and Mr Dixon Hughes attended this meeting, at which a liaison report was presented - outlining the origins and activities of JTC 1 and its subcommittees.

In TC 215, there is considerable interest in aspects of the JTC 1 work - notably some activities of SC 6, SC 17, SC 27, SC 32, WG 6 (IT Governance) and, also, vocabulary.

The second meeting of ISO/TC 215 for 2009 will take place in Durham, North Carolina, USA between 19 and 21 October 2009 with preparatory meetings on Saturday, 17 October and a Global Health IT Standards Summit on Sunday, 18 October.

Unfortunately, as these dates clash with those for JTC 1, both Mr Dixon Hughes and Dr Stokes are unable to attend the Tel Aviv meeting of JTC 1 due to their commitments to the TC 215 meeting. It would be appreciated if JTC 1 could accept our apologies.

If acceptable to JTC 1, Mr Dixon Hughes would be pleased to continue as the JTC 1 liaison to TC 215 and to provide a report to the 2010 Plenary.

I sincerely apologise for the late submission of this report and hope that JTC 1 will agree to continue the liaison with the ISO/TC 215 Health Informatics Committee.

2. Summary of Liaison Activity and Issues

Since the 2008 JTC 1 plenary in Nara, the following are the main areas of particular interest in relation to liaison between TC 215 and JTC 1.

2.1 JTC 1 Presentation to Edinburgh Plenary 2009

The ISO/TC 215 Plenary Meeting for 2009 ("Edinburgh Meeting") was hosted by BSI, the British Standards Institution, and was held in Edinburgh, Scotland from Sunday, 26 to Thursday, 30 April (inclusive) and was attended by a record attendance of around 220 delegates from 18 countries along with representatives of liaison organisations including CEN, HL7, IHTSDO, WHO, CDISC, IHE and IEEE.

Richard Dixon Hughes (Australia), liaison from JTC 1 to TC 215 and Dr Adrian Stokes (UK), liaison from TC 215 to JTC 1 were both present at the Edinburgh Meeting. Dr Stokes prepared a presentation on JTC 1, its formation and activities, which was presented on his behalf by Mr Dixon Hughes at the TC 215 plenary session on Thursday, 30 April 2009.

2.2 TC 215 Liaison for JTC 1/WG6 IT Governance

At the time that JTC 1/WG 6 (IT Governance) was founded, one of the recommendations approved by JTC 1 was for WG 6 to seek liaison with TC 215.

This request was discussed at the April 2009 TC 215 meeting in Edinburgh and Colin Nolder (UK) agreed to attend the WG 6 meeting in London in May.

Colin was unfortunately unable to fulfil the commitment due to illness in his family but another TC 215 regular, Prof Bryan Manning was able to be present at the London meeting of WG 6 and was subsequently suggested by WG 6 as a suitable person to provide liaison between WG 6 and TC 215.

This has yet to be formalised by TC 215 but it is expected that TC 215 will probably approve Bryan as the liaison officer, with a view to his reporting back to each body on the other's activities.

2.3 Standards for maintenance and communication of object identifiers (OIDs)

OIDs are commonly used to identify specific data structures and elements within the health informatics domain (particularly within HL7v3 messages, HL7v3 CDA documents and archetypes based on either *openEHR* or ISO/EN 13606. There is a strong will to share and consolidate information between OID registries issuing OIDs for e-health interoperability.

HL7 are already managing OIDs for specific eHealth applications as do France Télécom, and some other bodies registered with ISO and ITU-T. While the management of OIDs is based on the existing JTC 1 and ITU-T standards, these have not proven to be sufficient for the needs of eHealth users - particularly in Germany.

One fundamental problem appears to be duplication - where the same object receives different OIDs assigned by different registrars via different pathways. Another is the

lack of an agreed way of communicating OID registration details in the eHealth arena. HL7 (as one of the organisations maintaining an OID register for eHealth applications) referred the issue to TC 215 pursue and to take up with ISO, JTC 1 and ITU-T.

To address these needs, two new work items were submitted for TC 215 ballot, closing in June 2009:

- *ISO/NP 13581: Health informatics: Guidance for maintenance of object identifiers*
- *ISO/NP 13582: Health informatics: Communication model and XML interface specification for OID registries*

The work provides an XML construct to support harmonisation of information from disparate OID registers into a single register and demonstrates use cases where sharing and retrieval of OID lists is required.

Further development and the data model will be undertaken in conjunction with HL7 and France Télécom. On recommendation of ISO/TC 215/WG 3 (Health Concept Representation), TC 215 is seeking to carry out this activity in close liaison with relevant bodies responsible for the OID identifier standards and frameworks, with expert input and guidance being sought through:

- ISO/IEC JTC1/SC6 (Telecommunications and information exchange between systems)
- ITU-T SG17 (Telecommunication security), and
- ISO/TC 184/SC5¹ - Architecture, communications and integration frameworks

The TC 215 and JTC 1/SC 6 Secretariats have been trying to establish the appropriate working relationship amongst TC 215, JTC 1/SC 6 and ITU-T/SG17. Prof John Larmouth (Convenor of ISO/IEC/JTC 1/SC 6/WG 9 and Rapporteur of SG17/Q12) and Olivier Dubuisson (ASN.1 project leader) have been nominated by SC6/SG17 to provide liaison and expert guidance but I understand that they cannot get to the TC215 meeting in Durham and SC6/SG17 have expressed a view that much of the proposed TC 215 work might better be conducted in forums conducted by SC6 and SG17 - using tools and methods preferred in those environments (e.g. ASN.1, rather than XML).

TC 215 and SC 6/SG 17 seem to be having problems agreeing on process and finding people with the specific expertise and financial resources able to go and work in the other forum. Frustrations appear to be rising on both sides.

From consideration of email correspondence to date, these issues do not appear to have been close to resolution amongst those directly involved and the relevant Secretariats and it seems that there may be a significant mismatch in expectations and approach to be managed.

Following some useful face-to-face discussions at the September 2009, HL7 Plenary and WGM in Atlanta with Ted Klein (who manages the HL7 OID registry) and proposed discussions with relevant ISO/TC 215 personnel (including Dr Adrian Stokes, Heather Grain and Dr Sylvia Thun) at the upcoming TC 215 meeting in Durham, North Carolina it is expected that the difficulties can be overcome and that meaningful communication will be established between the relevant technical experts in ISO/TC 215, HL7, JTC 1/SC6 and ITU-T/SG17.

¹ This is my best guess - actual committee appears to have been incorrectly minuted]

2.4 Health Informatics - Glossary & Document Registry - Knowledge Management Tool

TC215 has established a knowledge management tool supporting a health informatics standards glossary and document registry in an effort to better coordinate the terminology being used in health informatics standards and the categorisation and scoping of standards work. This activity is also supported by the other Joint Initiative Charter members.

The aim is to have relevant definitions and supporting information freely and readily available - with a view to increasing the re-use of common terms and definitions and decreasing the number of inconsistent terms and definitions used in health informatics standards.

Ideally, this work should build on the standard IT vocabularies maintained but this is unlikely for as long as this intellectual property remains locked inside many different individual ISO/IEC standards.

2.5 Liaisons between JTC 1 Subcommittees and TC 215

The following JTC 1 subcommittees are recorded as having established reciprocal liaison arrangements with TC 215:

- SC 2 Coded character sets
- SC 6 Telecommunications and information exchange between systems
- SC 7 Software and systems engineering
- SC 17 Cards and personal identification
- SC 23 Digitally recorded media for Information Interchange and Storage
- SC 24 Computer graphics and image processing
- SC 27 IT security techniques
- SC 32 Data management and Interchange

SC 36 IT for learning, education and training (ITLET) includes TC215 among its liaisons but SC36 seems to be missing from the corresponding TC215 liaisons.

ISO/TC 215 also identifies a liaison with JTC 1/SC 22 (Programming languages); however, there is no record of this from SC22.

3. ISO/TC 215 Status Update

3.1 TC 215 Overview

The International Organization for Standardization (ISO) develops health informatics standards through technical committee *ISO/TC 215 Health Informatics*.

3.1.1 ISO/TC 215 Scope

Standardization in the field of information for health, and Health Information and Communications Technology (ICT) to achieve compatibility and interoperability between independent systems. Also, to ensure compatibility of data for comparative statistical purposes (e.g. classifications), and to reduce duplication of effort and redundancies.

It is not the intent of the ISO/TC 215 scope to:

- *Standardize the clinical practice of medicine*
- *Define a standardized health care delivery service structure*
- *Standardize medical knowledge, although the representation and exchange of knowledge is within the scope of ISO/TC 215*
- *Standardize the performance of healthcare, although the definition of standardized comparative performance data is within the scope of ISO/TC 215*
- *Standardize the internal operation of systems and devices, although the standardization of data structure and the data output from systems and devices is within the scope of ISO/TC 215*

3.1.2 TC 215 future directions

The following are some of the key future goals that have been identified for TC 215.

- Developing countries should be included in health informatics standards work.
- TC 215 should have greater multi-cultural representation
- Clinical users should be more represented in the committee's work
- The standards program needs to represent a negotiated balance between idealism and realism recognising the absolute need for market relevance and timeliness
- Increasing emphasis on harmonization and collaboration through the JIC with HL7, CEN/TC 251, CDISC, IHTSDO and potentially others. The ideal goal remains convergence so that each business requirement is addressed by only one standard and one test for compliance.

3.1.3 ISO/TC 215 membership and liaisons

There are currently 29 'P' (Participating) member bodies, which, listed by continent, are as follows:

Africa: Kenya

North America: Canada, USA

South America: Brazil

Asia: China, Japan, Korea, Malaysia

Europe: Armenia, Austria, Belgium, Denmark, Czech Republic, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Russian Federation, Serbia, Slovakia, Spain, Sweden, Turkey, United Kingdom

Oceania: Australia, New Zealand

In addition, the 20 'O' (Observing) member bodies are:

Africa: South, Africa, Zimbabwe

South America: Argentina, Ecuador

Asia: Hong Kong, India, Iran, Mongolia, Singapore, Thailand

Europe: Bulgaria, Croatia, Cyprus, Hungary, Israel, Poland, Portugal, Romania, Switzerland, Ukraine.

Liaisons as reported by the TC 215 Secretariat at the end of March 2009 are listed in Attachment A to this report.

3.1.4 Constitution of ISO/TC 215

- **Chair:** Dr Yun Sik Kwak (Korea) - until 31 December 2009 at which time Dr Christopher Shute (USA) takes over for his inaugural 3 year period.

- **Secretariat:** ANSI (USA) delegated to HIMSS. The relevant contact is:

Audrey E. Dickerson RN, MS
ISO/TC 215 Health Informatics, Secretary
US TAG for ISO/TC 215 Health Informatics, Administrator

HIMSS
230 East Ohio Street, Suite 500
Chicago, Illinois 60611, USA

Tel: +1-312-915-9233
Mobile: +1-630-544-0378
Email: adickerson@himss.org

- **TC 215 Executive Council**

Scope: To address policy priorities and strategic direction, business planning, marketing and communications, and user consultation on an ongoing basis to support ISO/TC 215. Chaired by the Chair of TC 215, membership comprises Heads-of-Delegation (HoDs) of P-members, WG Convenors and Vice-Convenors.

The ISO/TC 215 secretary serves as secretary of the Executive Council

- **Operations and Harmonization Committee:** Led by the Secretariat, this committee harmonises for internal document formats and processes across the

various TC 215 Working Groups. Its membership comprises the convenor, vice-convenor and secretary of each WG.

Working Groups

TC 215 has the following working groups:

- **WG 1 Data Structure** (Convenor: Julie Richards, Canada)

Scope : To develop standards that establish the structure of health information in order to facilitate the sharing of information and data among enterprises, organizations, and information systems. These standards establish the definitional, context, organization (framework and models), relationship, and template requirements for health information and associated data sets.

- **WG 2 Data Interchange** (Convenor: Mike Glickman, USA)

Scope: The means to accomplish messaging and communication in health informatics such that electronic exchange of information between individual systems (clinical and administrative) and organizations (clinical and administrative) is facilitated.

This WG has which has two separate streams of activity focussed on: - *Architecture and Methodology*.

- **WG 3 Semantic Content** (Convenor: Heather Grain, Australia)

Scope : To develop standards for the semantic representation of content in the health care domain; development and use of ontology's and terminological systems; and representation and management of knowledge.

Also acts as parent WG for the Traditional Medicine Task Force

- **WG 4 Security, Safety and Privacy** (Convenor: Ross Fraser, Canada)

Scope :Defining health informatics security and privacy protection standards to

- 1) protect and enhance the confidentiality, availability, and integrity of health information;
- 2) prevent health information systems from adversely affecting patient safety;
- 3) protect privacy in relation to personal information; and
- 4) ensure the accountability of users of health information systems.

Has recently become the parent WG for the Health Cards Task Force - formed when WG5 was discontinued.

- **WG 6 Pharmacy and Medication Business** (Convenor: Ian Shepherd, UK)

Scope :To establish standards in the domain of pharmacy and medication e.g. research, development, regulation, supply, use and monitoring to improve the efficiency and interoperability of information systems affecting patient safety. This working group shall provide appropriate domain expertise to ensure that the business requirements for international standards in this area are identified and met by one of the following routes:

- Co-operation with other organisations that develop standards to encourage development to meet the identified requirements. In some cases this can lead to the adoption of such external standards by ISO in which case this working group is managing the resolution of possible comments and change requests;

- Co-operation with the other working groups of ISO/TC 215 "Health Informatics" as appropriate; to encourage, the development of new standards for this domain that may need to be coordinated with other health domains and cross-sector standards;
- **WG 7 Devices** (Convenor: Todd Cooper, USA)

Scope: Standardization in the application of Information & Communications Technologies (ICT) to health device informatics and device interoperability in support of medicine, health care, and wellness.
- **WG 8 Business Requirements for Electronic Health Records** (Convenor: Marion Lyver, Canada)

Scope: Standardization in identification of business requirements for all of the health informatics aspects applied to health records for persons.
- **WG 9 Joint Working Group (JWG) for SDO harmonisation** (ISO Convenor: Don Newsham, Canada)

This JWG has been convened as an ISO/TC215 Working Group to act as a coordinating group in support of the Joint Initiative Council (see section 3.2 below for more on JIC, JWH and their roles).

Other TC 215 activities

- **Task Force on Health Cards**
Co-Chairs: Masuyoshi Yachida (Japan) & Ivan Emelin (Russian Federation)

Scope: To produce standards in the field of healthcare usage of machine-readable cards compliant with the physical characteristics, including dimensions, defined in ISO/IEC 7810. The TF shall place special emphasis on technology independent data structures leading to interoperability and compatibility including the communication of data.
 - The TF shall focus on cards used to identify both patients and healthcare providers both as individuals to information systems and in terms of record linkage. It shall also focus on patient data cards intended to convey a healthcare data set of medical importance that may not be immediately be available or useable by other means.
 - The TF shall not produce standards which apply to medical devices. Machine-readable cards are not interpreted by the TF to be medical devices.
 - TF wishes to co-operate with other working groups in relation to data structures and shall not produce data models where such data models already exist.
 - TF will also co-operate with the other TC 215 working groups where there are areas of common interest and shall appoint liaison members from within its membership.

The TF reports to TC 215 through WG4 and its main task is review and maintenance of the existing IS 21549 series of health card standards.

TC 215 was greatly saddened during the year by the sudden death of the former chair of WG5, Dr Jürgen Sembrizki (Germany) and, at the April 2009 Plenary in Edinburgh, paid its respects to his memory and to his contribution to TC 215 and its work.

- **Task Force(s) on Traditional Medicine**

The organisational structures for progressing work on extending the coverage of health informatics standards to areas of complementary traditional medicine including Traditional Chinese Medicine, other forms of Traditional Oriental Medicine and other forms of Traditional Medicine are presently being developed through WG3 in conjunction with the relevant stakeholders.

3.2 ISO/TC 215 Work Program and Publications

See Attachment B for a listing of the ISO/TC 215 Work Program and Publications.

3.3 Support for Joint Initiative Council (JIC)

In 2005/06, ISO/TC 215 entered into a Joint Initiative (JI) charter with other globally-relevant health informatics Standards Development Organisations (SDOs) - the European CEN/TC 251 Health Informatics technical committee, and Health Level Seven (HL7) Inc, an ANSI-accredited developer of health informatics standards used around the world.

The JI charter underpins the **Joint Initiative on Health Informatics Standards Development Organisation Harmonisation** (JI) that has the objectives of reducing overlap and inconsistency and promoting economy of effort in the standards development activities of ISO/TC 215, CEN/TC 251, HL7 and other health informatics standards development organisations (SDOs).

The JI was established in response to feedback from national and regional eHealth programs and major health information systems suppliers concerned about proliferation of inconsistency of health informatics standards. A desire to work toward semantic interoperability of health information underpins the joint work - and a recognition that this will never be achieved while inconsistent standards continue to proliferate. While the desire to collaborate is strong, each body has to balance this against the immediate requirements and pressures from key stakeholders - including government eHealth programs around the world seeking to make significant investments on relatively short time-frames.

CDISC (Clinical Data Interchange Standards Consortium) and IHTSDO (International Health Terminology Standards Development Organisation) have since become JI members and discussions are continuing with LOINC, IEEE and DICOM and there is some interest from IHE (Integrating the Healthcare Enterprise).

The Joint Initiative is realised via an executive-level **Joint Initiative Council (JIC)** in which the key leaders of each SDO confer on a regular basis (normally monthly) to approve joint projects and to evolve processes for successful conduct of joint work.

Each joint project is undertaken by a joint project group containing experts from those SDOs participating in the particular work item; the aim is for each round of balloting to close simultaneously in all participating SDOs with a common ballot reconciliation. The final product is co-branded.

The ISO/TC 215 Secretariat also provides the secretariat for the JIC. Dr Ed Hammond (HL7, USA) has been the chair of the JIC since its initial formation. He proposes to step down from this role at the end of December 2009, with Kees Molenaar (The Netherlands), current chair of CEN/TC 251 to take over as chair for 2010, after which it is expected to rotate among the participating SDOs on an annual basis.

The Joint Working Group (JWG) reports to the JIC for the purpose of monitoring and reviewing cross-SDO work programs, discussing and commenting on proposed harmonisation proposals and processes and making non-binding recommendations for consideration by the JIC. Membership of the JWG is open to individuals involved in the work of the participating SDOs. It formally operates as ISO/TC 215/WG 9 with co-conveners drawn from HL7, ISO/TC 215 and CEN/TC 251 and meets around 4-5 times per year in conjunction with Working Group meetings of its member SDOs. The current co-conveners are:

- Don Newsham (ISO/TC 215, Canada)
- Melvin Reynolds (CEN/TC 251, UK); and
- Charles ("Chuck") Jaffe (CEO of HL7, USA)

Within TC 215, the scope of the **Joint Imitative Council** is identified as:

"This Council, operating as a council of equals and as a liaison group under ISO/TC 215, consists of the respective leaders and appointed liaison members of the participating SDO's to a maximum of 3 members per SDO. The Council operates at the strategic level and is responsible to:

- *Identify, make explicit and make available emerging requirements for standardization;*
- *Proactively drive the identification of needs and the achievement of results to resolve gaps, overlaps and counterproductive health informatics standardization efforts;*
- *Achieve consensus on a work program-driven health informatics harmonization plan;*
- *Achieve consensus on common processes necessary to enable optimal collaboration, coordination and communication, including new member selection and decision making processes;*
- *Identify criteria and members for the Joint Working Group;*
- *Identify the individuals and lead SDO who have an interest, expertise and contribution to determine a course of action for resolving issues of gaps, overlaps or counterproductive health informatics standardization efforts;*
- *In the spirit of openness, transparency and flexibility, determine appropriate policies that are required and useful across participating SDOs and*
- *Determine an overall engagement and communications strategy, including full sharing of deliberations, with stakeholders from the health informatics standards community in support of standards harmonization."*

Within TC 215, the scope of the **Joint Working Group** is identified as:

Scope: Joint Working Group is a planning, process determination and coordinating group that makes recommendations to the Joint Initiative Council on resolving gaps, overlaps or issues of counterproductive standardization Identifying and analyzing, defining and documenting specific gaps, overlaps, issues and tasks to be addressed;

- *Using use cases and including all parts of the standards life cycle*

- *Developing, testing and using effective decision processes for international standardization needs; and*
- *Developing common processes for harmonization in accordance with participating SDO processes*

Its activities also include:

- Developing an integrated work program amongst the participating SDOs for approval by the Joint Initiative Council, including
 - Collection and summarization of participating SDO work plans;
 - Educating on and building awareness of, relevant standards activity;
 - Reviewing the work plans of participating SDO for purposes of coordination; and determining overlaps, gaps and counterproductive standardization
 - Monitoring and providing feedback on the outcomes of the Joint Initiative.
- Encouraging stakeholder engagement and communicate output of the work program.

4. Further Information

ISO/TC215 page on ISO website (material tends to be outdated):

http://www.iso.org/iso/standards_development/technical_committees/list_of_iso_technical_committees/iso_technical_committee.htm?commid=54960

Public ISO/TC215 Website at HIMSS:

http://www.himss.org/ASP/topics_iso.asp

JIC/JWG Website:

<http://www.global-e-health-standards.org/>

For information about HL7's collaboration with ISO and others through JIC:

<http://www.hl7.org/participate/isojic.cfm>

For HL7 information on the JIC process stages:

<http://www.hl7.org/documentcenter/public/procedures/iso-jic/The%20JIC%20Process%20Stages.doc>

For HL7 information on projects underway from HL7 for ISO and JIC approval:

http://www.hl7tsc.org/wiki/index.php?title=ISO_and_JIC_projects

Attachment A - TC 215 Liaisons as at March 2009

(Primary source: TC 215 Secretariat report to April 2009 Plenary, Edinburgh, Scotland - with some corrections and additional information)

Internal (ISO) Liaisons	Secretariat
TC 37 (Terminology and other language and content resources)	SAC (China) Previously ON – Infoterm
TC 42 (Photography)	ANSI – POMA
TC 46 (Information and documentation)	DIN
TC 76 (Transfusion, infusion, injection equip.)	DIN
TC 84 (Devices for administration of medicinal products)	DS
TC 106 (Dentistry)	BSI
TC 121 (Anaesthetic and respiratory equipment)	BSI
TC 150 (Implants)	DIN – Pforzheim
TC 154 (Processes, data elements, etc)	SNV – UN-ECE
TC 168 (Prosthetics and orthotics)	DIN – Pforzheim
TC 170 (surgical Instruments)	DIN – Pforzheim
TC 171 (Document management applications)	AFNOR
TC 172 (Optics and Photonics)	DIN – Pforzheim
TC 194 (Biological evaluation of medical devices)	DIN – Pforzheim
TC 198 (Sterilization of Healthcare products)	ANSI – AAMI
TC 210 (Quality management for medical devices)	ANSI – AAMI
TC 212 (Clinical laboratory testing)	ANSI – CLSI
TC 229 Nanotechnologies	BSI
ISO/IEC JTC 1 Information Technology	ANSI

External (Cat. A) Liaisons

CDISC (Clinical Data Interchange Standards Consortium)
 DICOM (Digital Imaging and Communication for Medicine)
 GS1
 ICN (International Council of Nurses)
 IEC/TC 62 Electrical equipment in medical practice
 IEC/SC 62A Common aspects of electrical equipment used in medical practice
 IHTSDO (International Health Terminology Standards Development Organisation)
 IMIA (International Medical Informatics Association)
 ITU-T/SG 17
 UN-ECE (UN - Economic Commission for Europe - Edifact etc)
 WHO (World Health Organization)
 Regenstrief Institute (Pending)

External (Cat. C) Liaisons

JTC 1/SC 2 (coded character sets)
 JTC 1/SC 6 (Telecommunications)
 JTC 1/SC 7 (Software and systems engineering)
 JTC 1/SC 22 (Programming languages)
 JTC 1/SC 23 (Digital storage media)
 JTC 1/SC 24 (Computer graphics & image processing)
 JTC 1/SC 27 (IT security)
 JTC 1/SC 32 (Data management & interchange)

Secretariat

JISCIPSJ/ITSCJ
 ANSI
 SCC – Bell Canada
 ANSI
 JISC – IPSJ/ITSCJ
 BSI
 DIN
 ANSI – Battelle Memorial

External (Cat. D) Liaisons

Continua Alliance
 ICH (International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use)
 IFMPA (International Federation of Pharmaceutical Manufacturers & Associations)
 IHE (Integrating the Healthcare Enterprise)

In liaison with TC 215 WG(s):

WG 7 Devices
 WG 3 Health Concept Representation
 WG 6 Medication and Pharmacy Business
 WG 3 Health Concept Representation
 WG 6 Medication and Pharmacy Business
 WG 1, WG 2, WG 3, WG 4, WG 6 and WG 7

Proposed Liaisons:

JTC1/SC17 Cards and personal identification
 JTC1/SC37 Biometrics
 IEC/SC 62D Electromedical equipment
 CLSI (Clinical and Laboratory Standards Institute - formerly NCCLS)

HL7 Pilot Project

Health Level 7 (HL7) has had an existing Pilot Project agreement under which established HL7 standards have been jointly progressed to full international standards through ISO/TC 215.

IEEE

TC 215 has had an agreement with IEEE for some time in relation to the progression of medical device interface standards to become International Standards through TC 215.

TC 215 collaboration with IEEE has moved to a new level of reciprocity under the new PSDO agreement between IEEE and ISO established in December 2007. See:

http://standards.computer.org/sabminutes/2008Wint/4-3B_psd0-part.pdf

Attachment B - Summary of Current TC/215 Work Program and Publications

Notes:

1. For brevity and ease of reading the introductory words “Health informatics” in the titles of most of the TC 215 standards have been abbreviated to “HI” or, in some cases, were not recorded.
2. If quoting the title of work items and publications in official reports and documents, reference should be made to the ISO website to confirm the latest correct citation (including current stage designator - NP, WD, CD, DIS etc) and/or year of publication. Some may still be in draft form.
3. “VA” refers to the Vienna Agreement between ISO and CEN under which either ISO or CEN may lead joint work items.

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG1	Pending	EHR Blueprint Definition	Preliminary	
WG1	n/a	Identity Management Framework Task Group	Yet to be formed	Bryan Manning to lead
WG1	Pending	HI - Health Summary Record – Minimum Data Set	Preliminary	Next steps TBD
WG1	IS 13972	HI - Quality requirements and methodology for detailed clinical models	Passed NWIP ballot 2009-07-23	Next step CD. Joint w.HL7, CEN (VA)
WG1	ISO/TS 29585	HI - Deployment of a Clinical Data Warehouse	DTS ballot (2009-06-18 - 2009-09-18)	
WG1	IS 21667	HI - Health Indicators for Conceptual Framework	Submitted to ISO for DIS Ballot	DIS delayed for French Translation
WG1	ISO/TS 27527	HI - Provider Identification	Passed DTS ballot 2008-04-15	With ISO for publication
WG1	IS 12967-1	HI - Service Architecture -Enterprise Viewpoint	Published 2009	Joint w CEN
WG1	IS 12967-2	HI - Service Architecture -Information Viewpoint	Published 2009	Joint w CEN
WG1	IS 12967-3	HI -Service Architecture - Computational Viewpoint	Published 2009	Joint w CEN
WG1	ISO/TS 22220	HI - Identification of Subjects of Health Care	Published 2009	
WG1	ISO/IS 13606-1	HI - Electronic health record communication - Part 1: Reference model	Published - 2008	
WG1	IS 13606-2	HI - EHR Communicaiton Part 2 - Archetype Interchange Specifications	Published 2008	

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG1	IS 13606-3	EHR Communication Part 3 - Archetypes and Term List Interchange Specifications	Published 2009	
WG1	IS 13606-5	EHR Communication Part 5 - Interface Specification	Submitted to ISO for FDIS Processing	FDIS (VA w CEN lead). JWG coordinating
WG1	ISO/TR 20514	Health informatics - EHR Definition, Scope and Context	Published - 2005	reconfirmed 2008-10-15 - to be reviewed again in 2011
WG1	ISO/TR 17119	Health Informatics - Profiling Framework	Published - 2005	reconfirmed 2008-10-15 - to be reviewed again in 2011
WG1	ISO/TR 22221	HI - Good Principles and practices for a clinical data warehouse	Published - 2006	reconfirmed 2009-04-30 - to be reviewed again in 2012
WG1	ISO/TS 21667	Health Indicators for Conceptual Framework	Published - 2004	Under revision to IS
WG1	ISO/TR 22219	Framework for Emergency Data Sets		Withdrawn from the WG 1 program of work
WG1	ISO/TS 17120	Health Informatics:Country Identifier Standards	Published - 2004	Completed Systematic Review ballot 2007-12-17. Withdrawn from the WG 1 program of work
WG2	Pending	HI - Telehealth Systems - Teleradiology Interoperability	Pending	
WG2	ISO/TS 21089	Trusted end-to-end information flows	Preliminary	
WG2	IS 14199	HI - The BRIDG domain analysis model for protocol-driven biomedical research	Passed NWIP ballot 2009-08-12	Joint project. Now to CD stage.
WG2	IS 12974	HI - Messages and Communication - Web Access to DICOM persistent Objects by means of Web Services	Passed NWIP ballot 2008-10-11	Next step is CD
WG2	IS 13449	HI - Clinical Genomics Pedigree Topic	Passed NWIP ballot 2009-05-18	Headed for DIS under ISO/HL7 agreement
WG2	ISO/TS 13131	HI - Quality Criteria for services and systems for telehealth	Passed NWIP ballot 2009-02-17	Preparing DTS for ballot
WG2	ISO/TR 13128	HI - Clinical Document Registry Federation	Passed NWIP ballot 2009-02-14	Preparing DTR for ballot
WG2	ISO/TS 27790	HI - Document Registry Framework	Passed DTS ballot 2009-04-20	Sent back to PL for revision Publication
WG2	IS 10159	HI - Messages and Communication - Web Access Reference Manifest	Passed CD ballot 2009-08-21	Next stage - DIS ballot
WG2	IS 21090	HI - Harmonized Data Types for Information Interchange	Sent to ISO/CS for FDIS Ballot	Joint ISO, CEN, HL7 work. Delayed for French translation

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG2	IS 27932	HI - Clinical Document Architecture (Release 2)	Sent to ISOCS for FDIS Ballot	Cornerstone HL7 standard. Joint work under ISO/HL7 agreement
WG2	ISO/TR 28380-2	IHE Global Standards Adoption Part 2 - Integration and Content Profiles	Passed DTR ballot 2008-09-13	On Hold - awaiting final documents for publication. (IHE liaison)
WG2	ISO/TR 28380-1	IHE Global Standards Adoption Part 1 - Process	Passed DTR ballot 2007-07-23	On Hold - awaiting final documents for publication. (IHE liaison)
WG2	IS 21731	HL7 version 3 — Reference information model, release 1	Published - 2006	Cornerstone HL7 standard. Joint work under ISO/HL7 agreement. Under Systematic Review (2009-07-15 - 2009-12-15)
WG2	IS 18812	Clinical analyzer interfaces to laboratory information systems - Use profiles	Published - 2003	Completed Systematic Review ballot 2008-06-16
WG2	IS 18232	Format of length limited globally unique string identifiers	Published - 2006	Under Systematic Review (2009-04-15 - 2009-09-15)
WG2	IS 25720	Genomic sequence variation Markup Language (name change 2006 JeJu)	Published 2009	
WG2	ISO/HL7 27931	HL7 Version 2.5 messaging standard	FDIS complete.	Cornerstone HL7 standard. Joint work under ISO/HL7 agreement. Sent to ISO/CS for publication
WG2	ISO/TS 16058	Interoperability of telelearning systems	Publication - 2004	Reconfirm without change
WG2	IS 17432	Web access to DICOM Persistent Objects	published - 2004	Reconfirmed w/o change 2008
WG2	ISO/TR 18307	Interoperability and compatibility in messaging and communication standards	Published - 2001	
WG2	ISO/TR 16056-1	Interoperability of telehealth Syst & Networks P. 1	Publication - 2004	
WG2	ISO/TR 16056-2	Interoperability of telehealth Syst & Networks P. 2	Publication - 2004	
WG2	IS 12052	Digital imaging and communication in medicine (DICOM) including workflow and data management	Published - 2006	International adoption of DICOM standard
WG2	ISO/TR 22599	Processes for Developing and Implementing a message standard		
WG2	IS 17113	HI - Exchange of Information between Healthcare Information Systems - Development of Messages	Project Cancelled	Withdrawn from active work program

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WG3	TR	HI - The categorization and nomenclature of medical devices - requirements and analysis	Preliminary	NWIP (VA CEN lead)
WG3		EHR Glossary		Resides with WG 3
WG3	TR	HI - Transforming clinical descriptions into higher level classification: Principles and issues	Preliminary	
WG3	TR	HI - Harmonisation: Traditional medicine (TrM) terminologies	Preliminary	
WG3	To be identified	Cross terminology referencing, including drug references in laboratory testing	Preliminary	
WG3		Semantic harmonization across Information Models and Terminologies	Preliminary	
WG3	IS (Revision of ISO/TS 17117)	HI - Criteria for the Categorization and Evaluation of Terminological Systems. (name change 2005 Berlin)		NWIP awaited
WG3	TS	HI - Categorical structures of symptoms, signs and patterns/syndromes in traditional medicine - Part 1	Preliminary	NWIP in prep
WG3	TR	HI - Categorical structure for human anatomy within healthcare terminological systems	Preliminary	NWIP in prep. (VA ISO lead)
WG3	ISO/TR 14668	HI - Guidelines for the principles and desirable features of clinical decision support systems	NWIP ballot (2009-07-17 - 2009-10-17)	DTR next stage
WG3	ISO/TS 13582	Communication and Metadata Model and XML-interface specification for OID registries in healthcare	Passed NWIP ballot 2009-06-10	DTS in prep
WG3	ISO/TR 13581	Guidance for maintenance of object identifiers, OID	Passed NWIP ballot 2009-06-10	DTS in prep
WG3	ISO 13119 (CEN/ISO/TS 15699)	Clinical knowledge resources – Metadata	Passed NWIP ballot 2009-01-30	DIS in prep (VA CEN lead)
WG3	ISO 13120 (CEN/ISO/TS 14463)	Health informatics – A syntax to represent the content of medical classification systems	Passed NWIP ballot 2009-01-30	CD in prep (VA CEN lead)
WG3	prEN1828	Health informatics – Categorical structure for terminologies of surgical procedures	Passed NWIP ballot 2008-11-08	CD/DIS in prep (VA- CEN lead)
WG3	EN13940-1	Health informatics – System of concepts to support continuity of care – Part 1: Basic Concepts	Passed NWIP and CD ballot 2008-11-08	DIS in prep (VA CEN lead)
WG3	ISO/TR 12975	HI - Guidelines for the maintenance of terminological systems (name change 2009 Edinburgh)	Passed NWIP ballot 2008-11-07	DTR ballot next step

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WG3	ISO/TR 12310	HI - Principles and guidelines for the measurement of conformance in the implementation of terminological systems	Passed NWIP ballot 2008-05-29	DTR ballot next step
WG3	ISO/TR 12300	HI - Mapping of terminologies to classifications	Passed NWIP ballot 2008-05-27	DTR ballot next step
WG3	ISO/TS 28379	Common Glossary for ISO/TC 215	Passed NWIP ballot 2006-09-13 10.99	DTS Ballot ?
WG3	IS 27951	Common Terminology Services (Release 1)	On FDIS ballot (2009-08-12 - 2009-10-12)	Next step publication. Under ISO/HL7 agreement
WG3	ISO/TR 12309	HI - Guidelines for terminology development organizations (name change 2009 Edinburgh)	Passed DTR ballot 2009-03-17	Publication
WG3	TS/ISO 22789	HI - Conceptual Framework for patient findings and problems in terminologies	Submitted to ISOCS for publication	On hold - Publication
WG3	IS 18104	HI - Integration of a reference term model for nursing	Published - 2003	Completed Systematic Review 2009-03-16 (under VA)
WG3	IS 17115	Vocabulary for Terminological Systems	Published 2007	
WG3	ISO/TS 17117	Cont Hlth Vocab - Vocab structure hi-level qual Indicators	Published - 2002	Under revision
WG4	IS 22857	HI - Guidelines on data protection to facilitate trans-border flows of personal health information	Preliminary	Next stage - DIS
WG4	TR - tbd	HI - Guidance on the application of risk analysis and management across the health informatics domain	Preliminary	NWIP in prep
WG4	TR - tbd	HI - Security aspects of EHR record migration	Preliminary	NWIP in prep
WG4	ISO/TS 14441-1	HI - Security and privacy requirements for compliance testing of EHR systems -Part 1: Foundation	NP ballot (2009-06-29 - 2009-09-29)	VA - ISO Lead
WG4	ISO/TS 14441-2	HI - Security and privacy requirements for compliance testing of EHR systems -- Part 2: Protection profile for small-scale electronic patient record systems	NP ballot (2009-06-29 - 2009-09-29)	VA - ISO Lead
WG4	ISO/TS 14265	HI - Classification of data purposes for processing of personal health information	NP ballot (2009-06-02 - 2009-09-02)	Next step DTS ballot (VA ISO lead)
WG4	IS 27789	Audit trails for Electronic Health records	Passed CD ballot 2008-10-10	Requires 2nd CD Ballot

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WG4	IS 21091 - Revision of ISO/TS 21091	HI - Directory Services for healthcare providers, subjects of care and other entities (renamed 2007 - Brisbane)	Passed DIS ballot 2009-04-27	FDIS in prep. (VA ISO lead)
WG4	ISO/TR 11636	Health informatics - Dynamic on-demand virtual private network for health information infrastructure	Submitted to ISO CS for publication	
WG4	ISO/TS 13606-4	Health informatics — Electronic health record communication — Part 4: Security	Submitted to ISO CS for publication	
WG4	ISO/TR 11633-1	Health informatics - Information Security Management for Remote Maintenance of Medical Devices and Medical Information Systems - Part 1: Requirements and Risk Analysis	Submitted to ISO CS for publication	
WG4	ISO/TR 11633-2	Health informatics - Information Security Management for Remote Maintenance of Medical Devices and Medical Information Systems - Part 2: Implementation of ISMS	Submitted to ISO CS for publication	
WG4	ISO/TS 21547-1	HI - Secure Archiving of electronic health records Part1 Principles and Requirements	Submitted to ISO CS for publication	
WG4	ISO/TR 21547-2	HI - Secure Archiving of electronic health records Part2 Guidelines	Submitted to ISO CS for publication	
WG4	ISO/TS 22600-3	HC Info Privilege Mgmt & Access Control P-3 AC Mgmt	Submitted to ISO CS for publication	
WG4	ISO/TS 22600-1	HI - Privilege Mgmt and AC-1 Overview & Policy Mgmt	Published - 2006	Under Systematic Review (2009-07-15 - 2009-12-15)
WG4	ISO/TS 22600-2	HC Info Privilege Mgmt & Access Control P-2 Priv Mgmt	Published - 2006	Under Systematic Review (2009-07-15 - 2009-12-15)
WG4	ISO/TS 21298	HI - Functional and Structural Roles	Published 2008	
WG4	ISO/TS 25237	Pseudonymisation	Published 2008	
WG4	IS 27799	HI - Information Security Mgmt in Health using ISO/IEC 27002 (name change 2007 Montreal and Brisbane)	Published 2008	
WG4	ISO 17090-1	HI - Public Key Infrastructure-1 Framework and Overview	Published 2008	
WG4	ISO 17090-2	HI - Public Key Infrastructure-2 Certificate Profile	Published 2008	
WG4	ISO 17090-3	HI - Public Key Infrastructure-3 Policy Mgmt of Cert Auth	Published 2008	
WG4	ISO/TS 25238	Classification of Safety risks from health software	Published 2007	
WG4	27809 - TR	HI - Measures for Ensuring Patient Safety of Health Software - APSOHIP	Published 2007	

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG4	TS- 17090-1	Health Informatics Public Key Infrastructure-1	Published - 2002	Revised; now IS
WG4	TS- 17090-2	Health Informatics Public Key Infrastructure-2	Published - 2002	Revised; now IS
WG4	TS- 17090-3	Health Informatics Public Key Infrastructure-3	Published - 2002	Revised; now IS
WG4	DISO/TS 21091	Directory Services for security, communication and identification of professionals and patients.	Published - 2005	Under Revision
WG4	IS 22857	GL on data protect to facilitate trans-border flow of p h i	Published - 2004	Under revision
WG4	ISO/TS 29321	HI - Application of clinical risk management to the manufacture of health software (name change 2007 Brisbane)	Failed DTS ballot 2008-12-18	Under revw noting IEC/62 work on software in medical devices (VA CEN lead)
WG4	ISO/TR 29322	HI - Guidance on the management of risk to ensure the patient safety of health software systems in deployment and use (name change 2007 Brisbane)	Failed DTR ballot 2008-12-18	Under revw noting IEC/62 work on software in medical devices (VA CEN lead)
WG6	27952	HL7 Structured Product Labelling standard	Failed 2006-09-08	
WG6	27954	HL7 Product Stability data standard	Failed 2006-09-08	
WG6	ISO/TR 14872	HI - Requirements for the implementation of the standards for the identification of medicinal products for the exchange of regulated medicinal product information	NWIP ballot (2009-09-02 - 2009-12-02)	
WG6	IS 11595	Health informatics – Pharmacovigilance – Test names and units for reporting laboratory results (name change 2007 Brisbane)	Passed NWIP ballot 2007-08-18	JIC joint work item VA (ISO lead)
WG6	ISO/TR 10895	Business Requirements for the Reporting of Pharmacist Services	Passed NWIP ballot 2007-08-18	Next stage -DTR ballot
WG6	IS 11615	Health Informatics – Identification of medicinal products – Data elements and structures to uniquely identify medicinal products (MPIDs) for the exchange of regulated medicinal product information (name change 2007 Brisbane, 2009 Edinburgh)	Passed NWIP/CD restart ballot 2009-08-12	DIS in prep. JIC joint work item VA (ISO lead)
WG6	IS 11616	Health informatics – Identification of Medicinal Products – Data elements and structures to uniquely identify and exchange pharmaceutical products (PhPIDs) (name change 2007 Brisbane, 2009 Edinburgh)	Passed NWIP/CD restart ballot 2009-08-12	DIS in prep. JIC joint work item VA (ISO lead)

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG6	IS 11238	Health informatics –Identification of Medicinal Products – Data elements and structures to uniquely identify and describe substances and specified substances (name change 2009 Edinburgh)	Passed NWIP/CD restart ballot 2009-08-12	DIS in prep. JIC joint work item VA (ISO lead)
WG6	IS 11239	Health informatics – Identification of Medicinal Products – Data elements and structures to uniquely identify pharmaceutical dose forms, units of presentation and routes of administration (name change 2009 Edinburgh)	Passed NWIP/CD restart ballot 2009-08-12	DIS in prep. JIC joint work item VA (ISO lead)
WG6	IS 11240	Health informatics –Identification of Medicinal Products – Data elements and structures to uniquely identify Units of Measurement (name change 2009 Edinburgh)	Passed NWIP/CD restart ballot 2009-08-12	DIS in prep. JIC joint work item VA (ISO lead)
WG6	IS 27953-1	Health informatics -- Pharmacovigilance - Individual case safety report -- Part 1: The framework for adverse event reporting (name change 2007 Brisbane)	DIS ballot (2009-04-30 - 2009-09-30)	Next stage FDIS. Joint JIC/VA/HL7 item
WG6	IS 27953-2	Health informatics -- Pharmacovigilance - Individual case safety report -- Part 2: Human pharmaceutical reporting requirements for ICSR	On DIS ballot (2009-04-30 - 2009-09-30)	Next stage FDIS. Joint JIC/VA/HL7 item
WG6	ISO/TS 22224	Electronic reporting of adverse drug reactions	Submitted to ISO CS for publication	
WG6	ISO/TR 25257	Business requirements for an Internat'l Coding System for Medicinal products	Published 2009	
WG6	ISO/TR 22790	Functional Characteristics for Prescriber Support Systems (name change Apr 06)	Published 2007	
WG6	ISO/TS 22226	Specification of a terminology model for representation of medicinal products	Withdrawn from active work program	Avoid potential conflicts with other standards
WG6	ISO/TR 22225	Specification of a pharmacy patient record	Withdrawn from active work program	Avoid potential conflicts with other standards
WG6	TR	Business Requirements for e-transfer of Prescription event data and e-prescribing	Withdrawn from active work program	Avoid potential conflicts with other standards
WG7	11073-92202 NP/TS	Health informatics – Medical waveform format – Encoding rules, DICOM-ECG	pre-Preliminary	Next steps NWIP+DTS (JIS lead)
WG7	11073-00103 NP/TR	Health informatics - Personal health device communication - Technical report - Overview	pre-Preliminary	Next steps NWIP+TR (IEEE lead)

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG7	11073-92302 NP/TS	Health informatics – Medical waveform format – Encoding rules, long term ECG	pre-Preliminary	Next steps NWIP+DTS (JIS lead)
WG7	27933	HL7 Annotated ECG Waveform Data Standards	Failed 2006-09-08	
WG7	11073-92205 NP/TS	Health informatics – Medical waveform format – Encoding rules, Reporting with HL7 clinical document architecture (CDA)	Preliminary	Next steps NWIP+DTS (JIS lead)
WG7	11073-92206 NP/TS	Health informatics – Medical waveform format – Encoding rules, SCP-ECG	Preliminary	Next steps NWIP+DTS (JIS lead)
WG7	11073-10400 NP/IS	Health informatics – Personal health device communication – Device specialization – Common framework	Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	11073-20401 NP/IS	Health informatics – Point-of-care medical device communication – Application profile – Common networking infrastructure	Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	11073-30400 NP/IS	Health informatics – Point-of-care medical device communication – Transport profile – Ethernet	Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	11073-30503 NP/IS	Health informatics – Point-of-care medical device communication – Transport profile – RF wireless – Local area network (wLAN)	Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	p/NWIP/11073-00101	HI - Point-of-care medical device communication – Technical report – Guidelines for the use of RF wireless technology	Preliminary	
WG7	11073-92301 NP/TS	Health informatics – Medical waveform format – Encoding rules, 12-lead ECG	Preliminary	Next steps NWIP+DTS (JIS lead)
WG7	pNWIP/11073-10316:	HI - Point-of-care medical device communication - Device specialization - Dialysis device	Preliminary	Next step NWIP (IEEE lead)
WG7	11073-10441 NP/IS	Health informatics - Personal health device communication - Device specialization – Cardiovascular fitness and activity monitor	pre-Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	11073-10442 NP/IS	Health informatics - Personal health device communication - Device specialization – Strength fitness equipment	pre-Preliminary	Next steps NWIP + DIS (IEEE lead)
WG7	ISO/TR 80001-2	HI - Application of risk management for IT-networks incorporating medical devices – Guidance for health delivery organizations	Preliminary	Next step - NWIP Joint with IEC/TC62 and WG4
WG7	IS/11073-10472	Health informatics - Personal health device communication - Device specialization – Medication Monitor	Passed ballot 2009-07-20	Preparing DIS documents (IEEE lead)

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG7	DIS/11073-20301	HI - Point-of-care medical device communication - Application profile - Optional package, Remote control	DIS	IEEE lead
WG7	IS/11073-00000	HI - Point-of-Care Medical Device Communication - Framework & overview	DIS	IEEE lead
WG7	IS/11073-20102	HI - POC Medical Device Communication - Application profiles MIB Elements	DIS	IEEE lead
WG7	IS/11073-20200	HI - Point-of-care medical device communication – Application profile, Association Control Function	DIS	IEEE lead
WG7	IS/11073-20201	HI - Point-of-Care Medical Device Communication - Application profile, Polling Mode	DIS	IEEE lead
WG7	IS/11073-20202	HI - Point-of-care medical device communication – Application profile, Asynchronous Mode	DIS	IEEE lead
WG7	DIS/11073-60101	HI - Point-of-care Medical Device Communication - Application gateway, HL7 (v2) observation reporting interface	DIS	IEEE lead
WG7	IS/11073-10102	HI - Point-of-Care Medical Device Communication - Nomenclature Annotated ECG	DIS	IEEE lead
WG7	IS/11073-10103	HI - Point-of-care medical device communication - Nomenclature, Implantable Device, Cardiac	DIS	IEEE lead
WG7	ISJWG/IEC 80001-1 (changed from 28680)	ISO/IEC 80001 Part 1: Application of Risk Management for IT -- Networks incorporating medical devices	On DIS ballot (2009-07-31 - 2010-01-08)	FDIS/Publication (IEC lead)
WG7	11073-10404 NP/IS	Health informatics – Personal health device communication – Device specialization – Pulse oximeter	Passed 30 day Enquiry ballot 2009-06-29	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	11073-10407 NP/IS	Health informatics – Personal health device communication – Device specialization – Blood pressure monitor	Passed 30 day Enquiry ballot 2009-06-29	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	11073-10417 NP/IS	Health informatics – Personal health device communication – Device specialization –Glucose meter	Passed 30 day Enquiry ballot 2009-06-29	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	11073-10408 NP/IS	Health informatics – Personal health device communication – Device specialization – Thermometer	Passed 30 day Enquiry ballot 2009-06-09	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	11073-10415 NP/IS	Health informatics – Personal health device communication – Device specialization – Weighing scale	Passed 30 day Enquiry ballot 2009-06-09	Now in 5 month FDIS (IEEE lead under PSDO)

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG7	11073-10471 NP/IS	Health informatics - Personal health device communication - Device specialization – Independent living activity hub	Passed 30 day Enquiry ballot 2009-06-09	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	11073-20601 NP/IS	Health informatics – Personal health device communication – Application profile – Optimized exchange protocol	Passed 30 day Enquiry ballot 2009-06-09	Now in 5 month FDIS (IEEE lead under PSDO)
WG7	IS 11073-10201	Health informatics – Point-of-care medical device communication – Domain Info Model	Published/IEEE	Systematic Review (IEEE lead)
WG7	IS 11073-20101	Health informatics – Point-of-care medical device communication – Application Profile - Base Standard	Published/IEEE	Systematic Review (IEEE lead)
WG7	IS 11073-30300	Health informatics – Point-of-care medical device communication – Transport Profile - Infrared Wireless	Published/IEEE	Systematic Review (IEEE lead)
WG7	IS 11073-30200	Health informatics – Point-of-care medical device communication – Transport Profile - Cable Connected	Published/IEEE	Systematic Review (IEEE lead)
WG7	IS 11073-10101	Health informatics – Point-of-care medical device communication – Nomenclature	Published/IEEE	Systematic Review (IEEE lead)
WG7	IS 11073-91064	CEN en1064:2007, ISO 11073-91064 - Health informatics – Standard communications protocol, ECG (SCP-ECG)	Published 2009	Joint w CEN
WG7	IS/11073-90101	HI - Point of care medical device communication - Part 90101: Analytical instruments- Point of care test	Published 2008	Joint w CLSI
WG7	ISO/TR 21730 60.60	Use of mobile wireless communication and computing technology in HC facilities recommendations for mgmt of electromagnetic interference with medical devices	Published 2007	
WG7	TS/11073-92001	ISO/IEEE/11073-92001 HI - Point-of-care medical device communication - Medical waveform format – Encoding rules (formerly 11073-90201)	Published 2007	
WG7	11073-10406 NP/IS	Health informatics – Personal health device communication – Device specialization – Heart rate monitor	Preliminary	Proposed to be withdrawn (IEEE lead)
WG8	Ad hoc report	HI - EHR standards Map	Uncertain	
WG8	ISO/TR	Business Requirements for Public Health Standards	Preliminary	
WG8	ISO/TR 14639-1	HI - eHealth enterprise architecture for emerging and developing countries - Part 1: Environmental Scan	On NWIP ballot (2009-07-14 - 2009-10-14)	Next step - DTR

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
WG8	ISO/TR 14639-2	HI - eHealth enterprise architecture for emerging and developing countries - Part 2: Business Requirements	On NWIP ballot (2009-07-14 - 2009-10-14)	Next step - DTR
WG8	ISO/TR 14292	Personal Health Records: Definition, Scope and Context	Passed NWIP ballot 2009-08-28	Next step - DTR
WG8	ISO/TR 13054	Knowledge Management of Health Information Standards	Passed NWIP ballot 2008-11-21	DTR Ballot
WG8	ISO 18308	Requirements for EHR reference architecture	On Second DIS ballot (2009-08-07 - 2009-10-07)	Next step - FDIS
WG8	IS 10781	EHR System functional model	On FDIS ballot (2009-08-06 - 2009-10-06)	Next step - Publication Joint work w HL7, CEN (VA)
WG8	ISO/TR 12773-1	HI - Business Requirements for Health Summary Records - Part 1: Requirements	Published 2009	Publication
WG8	ISO/TR 12773-2	HI - Business Requirements for Health Summary Records - Part 2: Environmental Scan	Published 2009	Publication
WG8	ISO/TS 18308	Requirements for EHR reference architecture	Published 2004	Under revision to IS
HCTF	TR	Study for the use of cards and other technologies in the health care area, not specified as patient data cards	Uncertain	CEN lead
HCTF	TR	Overview of National Healthcare Professional Card Projects and/or Plans	Uncertain	CEN lead
HCTF	IS 21549-8	Patient Health Card Data Part 8 Links	On DIS ballot (2009-04-30 - 2009-09-30)	Under VA - ISO lead
HCTF	IS 21549-1	Patient Health Card Data Part 1 General Structure	Published	Completed Systematic Review ballot (2007-09-17)
HCTF	IS 21549-2	Patient Health Card Data Part 2 Common Objects	Published	Completed Systematic Review ballot (2007-09-17)
HCTF	IS 21549-3	Patient Health Card Data Part 3 Limited Clinical Data	Published	Completed Systematic Review ballot (2007-09-17)
HCTF	IS 21549-6	Patient Health Card Data Part 6 Administrative Data	Published 2008	Joint w CEN
HCTF	IS 21549-5	Patient Health Card Data Part 5 Identification Data	Published 2008	Joint w CEN
HCTF	IS 21549-7	Patient Health Card Data Part 7 E-Prescription to Med Data	Published 2007	

Resp Group	Current/Target Designation	Title/ Item	Current Stage	Comment
HCTF	IS 2030160.60	Health Cards - General Characteristics	Published 2006	
HCTF	IS 20302 60.60	Health Cards - Numbering System/Registration Procedure	Published 2006	
HCTF	IS 21549-4 60.60	Patient Health Card Data Part 4 Extended Clinical Data	Published 2006	
Other	11487 TR	Clinical Stakeholder Participation in the Work of TC215	Published 2008	Work of multidisciplinary TF