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| Description: Description: O:\LOGOS\DICOM\DICOM LOGO - MEDIUM.tif | 1300 North 17th Street, Suite 900  Arlington, VA 22209, USA  +1-703- 475-9217  [http://dicom.nema.org](http://dicom.nema.org/)  [**dicom@medicalimaging.org**](mailto:dicom@medicalimaging.org) |

*MINUTES*

###### DICOM STANDARDS COMMITTEE (DSC)

**August 20, 2013**

Rica Hotel

Stockholm, Sweden

**Members Present – Manufacturers Represented by**

Carestream Health Xavier Carayol

for Jonathan Belanger

GE Healthcare Harry Solomon

Panasonic Florian Knicker

For Masayuki Takahashi

Philips Healthcare Jeroen Medema

Sectra Krister Valtonen

Siemens Healthcare Nikolaus Wirsz

Toshiba Medical Research Institute USA Kevin O’Donnell

**Members Present – Users Represented by**

American College of Radiology Charles Kahn

French Society of Radiology Joel Chabriais

**Members Present – General Interest Represented by**

JAHIS (Japan) Takashi Nakashima

JIRA (Japan) Yukio Ito

Medical Imaging & Technology Alliance Stephen Vastagh

**Alternate Voting Member Representatives, Observers and Others Present**

Trishul Allareddy American Dental Association

Stefan Pall Bowman Raysearch

Chris Bope Palodex

James Philbin ACR

Bas Revet Philips Healthcare

**Members Not Represented –Manufacturers Voting Representative**

\*Agfa Healthcare Geert Claeys

\*Boston Scientific Tan-Jin Teo

\*Carl Zeiss Meditec Tobias Kurzke

Pixel Med Publishing David Clunie

\*Corista Eric Wirch

\*DeJarnette Research Systems Charles Stockham

Fujifilm Medical Systems Masao Murata

Hologic Janet Keyes

\*Konica Minolta Medical & Graphic Michael Laconti

McKesson Medical Imaging Group David Heaney

\*MEDIS Medical Imaging Robert Goedhart

\*Merge Healthcare North America Ronald Cowan

\*Sony Corp. Yuji Kohga

\*SuperSonic Imagine Jacques Souquet

Varian Medical Systems Ulrich Busch

**Members Not Represented –Users Voting Representative**

American Academy of Oral and Maxillofacial Allan Farman

Radiology

\*American College of Cardiology Thomas Gerber

\*American College of Veterinary Radiology Dennis Ballance

Brazilian College of Radiology Alair Sarmet. Santos

\*College of American Pathologists Ron Ranauro

\*European Society of Cardiology Nico Bruining

\*Medical Image Standards Assn. of Taiwan Jenn-Lung Su

\*Society for Imaging Informatics in Medicine Paul Nagy

\*Spanish Health Informatics Society Marcial Garcia Rojo

**Members Not Represented-General Interest Voting Representative**

\*Brazil Nat’l Inst. of Science&Technology Richard Schafer-De-Martini

\*Canada Health Infoway Attila Farkas

\*FDA Center for Devices and Radiological Health Kish Chakrabarti

\*India Centre for Development of Adv. J.S. Bhatia

Computing

\*Korean PACS Standards Committee Hee-Joung Kim

\*National Cancer Institute C. Carl Jaffe

\*Web3D Consortium Nicholas Polys

\* = Does not count toward a quorum at this meeting.

^ = Has not submitted Patent Agreement.

**Presiding Officers:** K. O’Donnell, Co-chair

1. **Opening**

The meeting was called to order at 9:00 am. The Secretary reviewed the antitrust rules. The Agenda for this meeting was approved. The Minutes of the previous meeting were approved.

1. **Administrative Matters**The Secretary received a request that the current rules of automatically demoting a voting WG member to Observer after missing four consecutive in-person meeting be revised to add phone conference attendance to also qualify for maintaining voting rights. The review of the issue was delegated to the Executive Committee.
2. **Election of New DSC Members**

There were no applications to join the DSC.

1. **Requests to Join Working Groups as voting members**

There were no such applications to join the WGs.

1. **New Work Item Proposals**
2. **New Work Item Proposals (NWIP)**

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| --- | --- | --- | --- | --- |
| **NWIP**  **Number** | **WG** | **Request** | **Discussion** | **Disposition** |
| NWIP-  2013-08-A | 21 | Multi-energy CT Storage | K.O’Donnell introduced the work item. WG-06 suggested that new IODs will be needed. It was also suggested that the content may not fit into a single Work Item. | Approved |
| NWIP-  2013-08-B | 27 | RESTful interface to UPS |  | Approved-Abstention-N Wirsz |
|  |  |  |  |  |

1. **WG-06 (Base Standard) Report**

The detailed report of the Chair, Bas Revet was reviewed; it is posted in the meeting folder. B. Revet applauded that ACR has added a voting representative to WG-06. Probably due to its heavy time requirements, the active working membership is vendor-heavy.

It was asked whether ECR and JRS could also consider sending an active representative to WG-06.

The Committee thanked B. Revet for the comprehensive report and thanked WG-06 for its work.

1. **Working Group 10 (Strategy) Report**

**8.1 ECO WG-29 formation Education, Communication, Outreach**

WG-10 CO-Chairs reported that WG-10 discussed the need to

* Publicize DICOM’s suitability to serve HER’s needs
* Publicize that DICOM is suitable for the Internet
* Publicize that DIOCM is not only for the production side of informatics
* Publicize that DICOM is not only for the radiology departments
* Publicize that DICOM is not a static and aging standard
* Publicize DICOM’s unique characteristic of backward compatibility
* Build a “DICOMweb“ brand

ACTION: The DSC unanimously voted to authorize formation of WG-29 act on behalf of the DSC in matters of education, communication and outreach, to revise the DICOM web site content and format and recommended to form a subgroup for the planning of the next DICOM International Conference. J. Medema and C. Kahn were appointed Co-Chairs and were invited to form the Working Group and draft initial charter and call inaugural meeting.

**8.2 SNOMED RT to CT style transition**

WG-10 reported that it discussed SNOMED’s 19 character full expression vs. DICOM’s 16 character code limit and the RT and CT styles of SNOMED codes.

WG-10 recommended DICOM to shift to the CT style.   
The DSC discussed whether this would require a Work Item due to substantive changes to the DICOM standard and the need for coordination with other organizations. It was concluded that this will require a New Work Item. H. Solomon decided to draft such a Work Item about the coding issue. The DSC also noted that DICOM must be diligent about harmonization efforts with SNOMED.

**8.3 DICOM domain name**It was discussed that the “dicom.org” name has been owned and used for forwarding traffic to the “I Do Imaging” web site which provides information on free medical imaging software. The person is an employee of Johns Hopkins. Previous efforts by D. Clunie to request relinquishing the site were unsuccessful. The DSC decided to request the purchase of all domain names around “dicom” and another attempt to request relinquishing the dicom.org name for use as the home domain for the DICOM standard.

1. **Reports from the Working Groups**

The Committee received written reports from WG-06, -11, -12, -15, -22, -24, -27. The WG-Co-Chairs present and the Secretary provided verbal updates, as well. The Committee discussed the working groups’ activities.

WG-01

No new activity on the Work Items.

IHE Cardiology activities: implementation Guides-based on past DICOM work

DICOM harmonization will be needed in 2014

Informatics staff at ACC is stable.

WG-02

Informative Annex for XR 3D

Dose reports: patient and operator

Frame of reference – working with WG-07 and WG-24

WG-03

Work on Sup 159 continues. Next: enhanced object for SPECT.

WG-04 and -05

No activity.

WG-07

Main focus continues to be Sup 147 for Public Comment.

WG-08

Mgt of Radiology Template Profile and standard for template profiles

Much interest in reporting in CDA

Much interest in template library, ECR is interested, translation in other languages

Many templates now translate in several languages

Discussed the difference beteween cardiology (6 types of exams) vs. imaging (350 for CT only)

WG-09

Work continues on Supplements

WG-11

See written report

WG-12

See written report

WG-13

H. Yokoi is new User Co-Chair (Industry Co-Chair is vacant.)

Summary of Color Summit

What is the meaning of “calibrating color”?

DO medical applications require color management?

ICC profiles are for print media, can it be adapted for medical applications?

WG-14

No activity

WG-15

See written report.

WG-16

CP work

WG-17-19

No activity

WG-20

Release 2 of Implementation Guide no in ballot cycle. Templates for 10 document types, referenced in MU-2.

Coordination with FHIR

WG-21

Work on Sup 121 continues

Work on new Supplement commenced

WG-22

See written report

WG-23

WG-27 took over Pt 19 work

WG-24

See written Report

WG-25

No activity

WG-26

Multispectral Visible Light

Report on IHE-Lab. Analytic Workflow-may be used as foundation for managing all lab activity

Update on Aperio patent issue

WG-27

See written report

WG-28

Serving modality WGs and coordinating with relevant AAPM Task Groups on patient dose

Working closely with WG-02

WG-29

Assignment-Conference Task Group recommended, develop survey of past participants

Possible sites: Turkey – to bring in Middle –East

Silicon Valley, CA

1. **XML Encoding of the DICOM Standard**

Update on the planning, timetable, etc. Report on discussion in WG-06. CPs and Sups conitnu in Word format. As the standard keeps growing, the importance of automated tooling is increasingly important. Rebuilding of tools should not be necessary.

Below resolution approved unanimously:

WHEREAS the DICOM Standard is critical to the functioning of medical imaging equipment and the advancement of medical imaging technology, and

WHEREAS the Standard is currently published as text documents comprising more than 7,000 pages, and

WHEREAS the continued growth, maintenance, editorial management of the Standard, and efficient use of the Standard to develop, test, and deploy imaging and radiation therapy products requires that the Standard be published using a modern, computer-readable representation.

NOW, BE IT RESOLVED that the DICOM Standards Committee strongly and unanimously recommends that MITA allocate $75,000 to convert the DICOM Standard documents into XML (Extensible Markup Language) and $30,000 per annum to provide ongoing publication of the standard in that format.

1. **Related Organization Reports – DICOM Related Activities**

* ACR – interested in Protocol Storage Supplement 121
* FDA – DICOM may want to provide consistent guidance for completing FDA Form 3654 for interoperability.

1. **New Business**

Transatlantic Harmonization – International harmonization of healthcare IT standards is ongoing. DICOM is already internationally harmonized as an ISO standard. H. Solomon was authorized as DICOM liaison.

1. **Rotation of Officers**

DICOM Manufacturer Co-chair – term expires Dec. 31, 2013

DICOM User Co-chair – term expires Dec. 31, 2014

Nominating Committee was appointed: Chair: C. Kahn, Members: G. Zeller, E. Cordonnier

1. **Time and Place of Future Meetings**

Thursday, Dec. 5, 2013, RSNA, Chicago, IL, USA

Suggestions: Spring-week of April 7, 2014 Vienna, in conjunction with IHE Europe.

Summer-Korea

1. **Adjournment**

The meeting was adjourned at 5:00 p.m.

Submitted by Stephen Vastagh, Secretary

Reviewed by counsel: CRS