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Minutes
DICOM WG-10 Strategic Advisory
WGM HL7, San Antonio, TX

Thursday, January 17, 2019
 1:45 – 5:00pm US CT <Q3-Q4>
WG-20/II hosting WG-10

Friday, January 18, 2019
 9:00am – 12:30 US CT <Q1-Q2>
ISO/TC 215 WG-2 hosting WG-10 /WG-20 II

Presiding Officers
DICOM Secretariat

Kevin O'Donnell, Producer Co-Chair
 Lisa Spellman, DICOM General Secretary
 Luiza Kowalczyk, MITA/DICOM

Present	First Name	Last Name	Organization	Voting Status
	Bruce	Bray	ACC/University of Utah Health	Observer
	J. Michael	Fitzmaurice	Agency for Healthcare Research & Quality	Observer
P	Brad	Genereaux	Agfa HealthCare	Observer
	Wim	Guijt	Agfa HealthCare	Observer
	Paul	Seifert	Agfa HealthCare	Alt. Voting
	Bill	Wallace	Agfa HealthCare	Observer
	Rainer	Wegenkittl	AGFA HealthCare	Observer
	John	Carrino	American College of Radiology	Observer
	Steven	Horii	American College of Radiology 2	Observer
	Charles	Kahn	American College of Radiology 3	Voting
	James	Philbin	American College of Radiology 4	Voting
	Veeratrishul	Allareddy	American Dental Association	Alt. Voting
P	Gregory	Zeller	American Dental Association	Voting
	David	Leong	Analogic Corporation	Observer
	Robert	Godward	Apteryx, Inc.	Observer
	Tyler	Sutton	Apteryx, Inc.	Observer
	Patrick	Williams	Apteryx, Inc.	Observer
	Emmanuel	Cordonnier	b<>com	Voting
P	John	Moerhke	Bylight	Observer

P	Kevin	O'Donnell	Canon Medical Research USA, Inc.	Voting
	Jason	Kennedy	Carl Zeiss Meditec AG	Alt. Voting
	Enis	Kurspahic	Cerner Sweden AB	Observer
	Allan	Noordvyk	Change Healthcare	Observer
P	Elliot	Silver	Change Healthcare	Voting
	Jere	Darling	DatCard Systems, Inc.	Observer
	Daniel	Ostrow	DICOM Grid, Inc.	Observer
	Donald	Van Syckle	DVS Consulting, Inc.	Observer
	Abhinav	Singh	Emids Technologies	Observer
	Sergio	Santoro	Eurisko	Observer
	Peter	Mildenberger	European Society of Radiology (ESR)	Observer
	Robert	Horn	Fairhaven Technologies	Alt. Voting
	Masao	Murata	FUJIFILM Corporation	Observer
	Charles	Parisot	GE Healthcare	Voting
	Zhuohui	Sun	GE Healthcare	Observer
	Zhanfeng	Xing	GE Healthcare	Observer
	Michio	Kimura	Hamamatsu University School of Medicine	Observer
P	Reinhard	Egelkraut	HL7 Austria	Observer
	Cedric	Tavernier	IMAGE ET	Observer
	Eric	Poiseau	INRIA Rennes	Observer
	Jörg	Riesmeier	IT Consultant	Observer
	Gunter	Zeilinger	J4Care GmbH	Observer
	Makoto	Suzuki	JIRA	Alt. Voting
	Akihiro	Yomoda	JIRA	Voting
	II Kon	Kim	Kyungpook National University	Observer
	Sungkee	Lee	Kyungpook National University	Observer
	Harry	Solomon	Laitek	Observer
	Fred	Behlen	Laitek Inc.	Voting
	Razvan	Costea-Barluti	Laitek Inc.	Observer
	Douglas	Sluis	Laitek Inc.	Observer
	Bronson	Hokuf	Laurel Bridge Software, Inc.	Observer
	T. Roger	Keane	Laurel Bridge Software, Inc.	Observer
	Peyman	Najmabadi	Leica Biosystems Inc.	Observer
	Arvind	Thiagarajan	Matrixview USA Inc.	Observer
	Zoya	Nikolayev	Medasys	
	Ronald	Cowan	Merge Healthcare an IBM Company	Observer
	William	Lingley	Merge Healthcare	Observer
P	Luiza	Kowalczyk	MITA	Observer
PH	Lisa	Spellman	MITA	Observer
	Robert	Leif	Newport Instruments	Observer

	Marco	Eichelberg	OFFIS - Institute for Information Tech	Observer
	David	Lambert	OHSU	Observer
	Michael	Onken	Open Connections GmbH	Observer
	Chris	Melo	Philips	Observer
P	Jeroen	Medema	Philips	Voting
	David	Clunie	PixelMed Publishing	Voting
	Nadia	Harhen	Qfix	Observer
	Win	Swarr	QualiTest Group	Observer
	Justin	Ryan	Rady Children's Hospital	Observer
	Kent	Hutson	RBMA	Observer
	Terry	Dolwick	Riverain Medical	Observer
	Krister	Valtonen	Sectra AB	Observer
	Michael	Jonas	Siemens Healthcare GmbH	Observer
	Andreas	Klingler	Siemens Healthcare GmbH	Voting
	Björn	Nolte	Siemens Healthcare GmbH	Alt. Voting
P	Diana	Ovelgoenne	Siemens Healthcare GmbH	Observer
	Antje	Schroeder	Siemens Healthcare GmbH	Alt. Voting
	Nikolaus	Wirsz	Siemens Healthcare GmbH	Observer
	Gianluca	Paladini	Siemens Medical Solutions USA, Inc.	Observer
	Joel	Chabriais	Société Française de Radiologie	Observer
	Markus	Sabin	softgate GmbH	Observer
	Stephen	Vastagh	Standards Management Company	Observer
	Corey	Cochran	Stryker Communications	Observer
	Paul	Sovelius	The Advanced Surgical Visualization Consortium	Observer
	Björn	Andersen	Universität zu Lübeck	Observer
	Lawrence	Tarbox	University of Arkansas for Medical Sciences	Observer
	Marc	Kaemmerer	VISUS Health IT GmbH	Voting
	Sebastian	Korber	VISUS Technology Transfer GmbH	Observer
P	Jonathan	Whitby	Vital Images, Inc.	Alt. Voting
	Chris	Lindop		Observer
	Bas	Revet		Observer
	Arianna	Sunbear		Observer

1. Opening

- 1.1. The meeting was called to order at 1:45 local time. Roll call was conducted.
- 1.2. Antitrust and patent guidelines.
- 1.3. The Agenda was reviewed and approved without changes
- 1.4. The minutes from Sept. 25th F2F meeting in Brisbane, Australia, were approved.

2. User co-chair nominations

- Greg Zeller is stepping down as DICOM WG-10 User Co-Chair at the end of 2018 due to a change in his work responsibilities.
- The Call for Nominations for a User Co-chair was issued on 12 December 2018 by Lisa Spellman
- Two nominations were received.
- Lisa issued and distributed a confidential letter ballot for this election. The Voting and alternate members of DICOM WG-10 are requested to complete the ballot no later than 16 February 2019.
- The results will be announced after February 16th.
- Many thanks to Greg Zeller for his fantastic leadership!

3. DICOM Media Report 2018

- Lisa went over the following documents during WG-29 meeting. Please note that DICOM WG-29 will take over most of this task.
 - 2018_DICOM Media Report_v1.0.docx
 - 2019_DICOM Communications Plan Overview_v1.0.docx
 - DICOM Submissions to MITA Minute Tracking Master.xlsx
- Things to think about:
 - Companies interested both in DICOM and HL7.
 - Interest in the mechanics of enabling the features in healthcare
 - Let people know that they can influence the development of the DICOM standard. The standard can always be changed/updated/improved.
 - Raise awareness of development, maintenance and extension of the standard.
 - Show benefits of standards.
 - Build a good business case for senior management on why people should/need to participate in working groups.
 - People are not familiar with DICOM Working Groups enough.

4. ISO Clinical Imaging Reference Standards Portfolio (RSP)

- Reviewed and updated during the meeting.
- The overall structure and concepts and example entries for standards are in the document
- There was general agreement with the content
- Additional standards and their associated evaluations and overviews are needed to complete the work
- WG-10 will take on responsibility for adding DICOM items
- Initial work was done during the meeting, teleconferences will be scheduled to continue the work

5. Annual DICOM Presentation to ISO TC215 WG2

- The PPT is posted on the ftp server in the meeting folder.
 - DICOM Report to ISO TC215 - 2019.01.pptx

6. Initiatives of interest – update and next steps

-This topic was not discussed during this meeting.

- Common Data Elements in Radiology (CDE) (Chuck Kahn)
- SIIM collaboration (Lisa)
- OpenStand (Jim/Charles)
- Joint Initiative Council (JIC)

7. Update SWOT

- This topic was not discussed during this meeting due to time devoted for ISO Clinical Imaging Reference Standards Portfolio (RSP).

8. Minutes of DICOM WG-20 II/HL7 – January 14-17, 2019, San Antonio, TX

- <https://confluence.hl7.org/display/IMIN/2019-01+WGM>
- <https://www.dicomstandard.org/wgs/>
 - <http://dicom.nema.org/Dicom/minutes/WG-20/2019/>

9. DICOM WG-10 Joint Meeting with TC215 & WG-20 II 9 (Notes from Bron Kislser)

- **xSDO Genomics Update (Bron, Mike Glickman)**
 - Background of WG2 Genomics Projects; 8 project or ~1/3 of WG2 program
 - 3 breakout groups – xSDO coordination (TC215, HL7, GA4GH); Form 3 for Genomics SC; FHIR Terminology Services for Genomics
 - Creation of Genomics SC; next steps – Form 3, Vote, Approval, Interested Countries for Secretariat, TMB Approval by summer 2019, 1st face-to-face meeting Korea Fall 2019
 - **Action** – determine how to engage vendors; Kevin / Luiza – look into vendors in the Genomics space; Mike / Bron – connect with GA4GH regarding participating vendors
- **DICOM Annual Report**
 - Thank you to Greg Zeller for his leadership and contribution to DICOM WG10
 - Covered new supplements
 - Data Compression – MPEG, JPEG; need to understand if a dataset has ever been compressed; was anything lost during compression and un-compression process?
 - DICOM Conference – Brisbane, Australia Sept 2018; some focus on pathology and dermatology application (full skin and mole mapping)
 - HL7 Imaging Integration/DICOM WG20 – continued collaboration; imaging-related aspect of FHIR; Elliot Silver, Change Healthcare, is stepping down as Co-Chair effective January 2019.
 - ISO/TC215 WG2 – RSP Clinical Imaging is ongoing, no standards input/feedback received from WG2, DICOM/IHE will take on populating the list.
 - JIC – re-initializing participation activities
 - Topics of interest – dicomstandard.org; standards now available in PDF, Word, HTML, XML and via Google; New Working Group – WG32 Neurophysiology; WG23 Artificial Intelligence/ Application Hosting – focusing on AI and Machine Learning primarily working on results
 - Conference: Machine Intelligence in Medical Imaging Conference (MIMI-C) – Austin TX Fall 2019
 - Upcoming DICOM Standard Committee Meeting – April 5 (Rennes, France), October 2, 2019 (Bangkok, Thailand), Dec 5 (RSNA, Chicago, IL).
 - The 15th European Congress on Digital Pathology is scheduled for 11-13 April, 2019, <https://www.ecdp2019.org/>

- **BRIDG Model & CRDC (Ed Helton)**
 - DICOM Imaging Archiving at NCI – NCIA/NBIA, caMicroscope – CBIIT 2005-2019; TCIA – The Cancer Imaging Archive
 - Status of CRDC Components and Nodes – GDC, PDC, IDC, CIDC; new Canine Data Commons; Pediatric Data Commons and INRG Database
 - BRIDG, CDISC and Terminology Standards are key to effective cross-node queries.
 - BRIDG Stakeholders – HL7, CDISC, ISO, DICOM, NCI, FDA, NCATS
 - Open Terminology is important – NCI, CDISC Terminology, LOINC, etc.
 - Greg – it’s important to always keep the patient in mind and what is best for the patient.
 - BRIDG Clinical Data Model Harmonization Project – OMOP, Sentinel, PCORnet, CDISC. Next iteration will be to connect with FHIR.

- **WG2 Project Updates**
 - AWI TS 220077-5 Health Informatics – Medical waveform format Part 5: Neurophysiological Signals
 - 220077 Part 1 – IS 2015; Part 2 – TS 2015....with Dec 2018 SR; Part 3 – TS 2105 with 2018 SR; Part 4 for EEG examinations
 - With Part 1 as IS (Normative) supported by a number of TS’s (Informative) this could be a good standards development model for Genomics OML roadmap.

- **RSP for Clinical Imaging**
 - History of document began with Harry Solomon and Anna Orlova. Joint ISO-DICOM document; document points normatively to other standards.
 - The document is not ready for ballot because some of the tables are not complete. We need to finish populating the tables. Parallels to the ONC Interoperability Standards Advisory were noted.
 - Need to confirm ISO timelines toward FDIS and IS;
 - Data Standards vs. Terminology Standards vs. Content Standards; Harry – Vocabulary, Data Structures, Messaging and Communications, Workflow
 - Consider splitting out vocabulary from data elements in the Ontology.
 - ****WG2 is the owner of this standard. We need to consider the update cycle. The 5-year cycle would likely mean it gets stale enough for its usefulness to degrade but revising it every year might be excessive. Consider reviewing each year or two for any necessary updates. Perhaps plan several web-meeting Nov-Dec each year and then report during the JAN DICOM-WG2 meeting**
 - **Action** – Bron connect with Sharon to confirm where this is in the TC215 timeline.
 - DICOM will work with HL7 on how FHIR and HL7v2 should be subdivided and grouped into rows. (e.g. one row per resource would be too many (there are 30), but some resources might merit their own row).
 - **Action** – need to identify owners of new rows in table
 - This can follow the ONC ISA Process where it is re-evaluated and updated each year. Robert – we need to think beyond the US, as other countries have a similar standard listing
 - **Action**-Reach out to National Standards Advisories for “customer” feedback and potentially harmonization.

<Action > Provide a ready RSP to Bron Kisler-Kevin

<Action > Provide new version of the document prior to ISO Meeting in Korea November 2019-Kevin

<Action > Work with HL7 on FHIR/V2 and IHE Rad – DICOM WG-10

– **HL7 Meeting February 2020 – Sydney Australia? To Be Determined.**

- We might have quorum, but US leadership is undetermined.

Secretary Note: The following PPTs can be found on the ftp server in the meeting folder:

- DICOM Report to ISO TC215 - 2019.01.pptx
- CBIIT Informatics Program Retrospectively_18Jan2019.pptx
- 20190118-HL7-WG_DICOM Joint-22077-R1.ppt

10. Old Business

- Reviewed of action Items from the previous meetings
- Test driving JIRA Action Item Manager:
 - DICOM WG-29- Action Items
 - DICOM Website
 - DICOM WG-10-Action Items
 - DSC-Action Items

11. New Business

- The 15th European Congress on Digital Pathology is scheduled for 11-13 April, 2019, <https://www.ecdp2019.org/>

<Action > Follow up with co-chairs of DICOM WG-26 Pathology on this event- DICOM Secretariat

12. Next Meetings

- **T-cons:**

<Action > Schedule few t-cons to review RSP for Clinical Imaging-Lisa

- **In person:**

Spring 2019

4-5 April 2019, Rennes, France

- DICOM WG-10 & WG-29 - Thursday, April 4, 2019, 9:00-17:00 local time <wg-10 and then wg-29>
- DSC - Friday, April 5, 2019, 9:00 a.m. – 17:00 local time

Secretary Notes: The Outlook invitation with all the meeting logistics was sent out few weeks ago. Please email me (Luiza K) if you can't find it ☺.

Note that the IHE European Connectathon is the week following.

IHE Connectathon Europe 2019: 8-12 April 2019 - <https://connectathon.ihe-europe.net/calendar>

Save the Date for the next connectivity test marathon! The **19th European Connectathon** will take place in **Rennes, France** from **8-12 April 2019**.

September 30 – October 4, 2019, Bangkok, Thailand

- DICOM WG-10 – Monday, September 30, 2019, 9:00-17:00 local time
- DICOM WG-29 – Tuesday, October 1, 2019 , 9:00-17:00 local time
- DICOM Standard Committee - Wednesday, October 2, 2019 , 9:00-17:00 local time
- DICOM Conference- Thursday-Friday, October 2-3, 2019,

Secretary Note: DICOM Conference, typically starts between 8:30 and 9:00, and ends around 17:00 on Day 1, and perhaps around 15:00 on Day 2.

13. Adjournment

The meeting was adjourned at 17:00 US CT on Jan 17 and 12:30pm on Jan 18.

Submitted by Luiza Kowalczyk, MITA/DICOM Secretariat

Reviewed by legal counsel, Clark Silcox, February 7, 2019.