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MINUTES
DICOM Standards Committee (DSC)
Rennes, France

Date and Time: **Friday 5 April, 0900 – 1700**

Location: **Hosted by b<>com b<>com Campus "L'Espace"**
1219 Avenue des Champs Blancs
35510 Cesson-Sévigné**,** Rennes, France
https://b-com.com/en/services/bcom-lespace

Presiding Officers: Jeroen Medema, Philips, Vendor Co-Chair
Lawrence Tarbox, University of Arkansas for Medical Sciences, User Co-Chair

DICOM Secretariat Lisa Spellman, General Secretary, DICOM
Luiza Kowalczyk, Senior Manager, DICOM Operations

Present	First Name	Last Name	Organization	Voting Status
	Shayna	Knazik	AAPM	Observer
	Donald	Peck	AAPM	Voting
	Michael	Flynn	AAPM 2	Voting
	Bruce	Bray	ACC/University of Utah Health Care	Voting
	Bob	Pekarek	Accuray Incorporated	Voting
	Wim	Guijt	Agfa HealthCare	Observer
	Bruno	Laffin	Agfa HealthCare	Alt. Voting
Remote	Paul	Seifert	Agfa HealthCare	Voting
	Joseph	Kvedar	American Academy of Dermatology	Observer
	Flora	Lum	American Academy of Ophthalmology	Alt. Voting
	Erika	Benavides	American Academy of Opthalmology	Observer
	Allan	Farman	American Academy of Oral and Maxillofacial Radiology (AAOMR)	Voting
	Kirt	Simmons	American Association of Orthodontists	Voting
	Paul	Varghese	American College of Cardiology	Alt. Voting
Present	John	Carrino	American College of Radiology	Voting
	William	Creech	American College of Radiology	Observer
	Cynthia	Fenerty	American College of Radiology	Observer

	Steven	Horii	American College of Radiology 2	Voting
	Charles	Kahn	American College of Radiology 3	Voting
	James	Philbin	American College of Radiology 4	Voting
	Judith	Wolfman	American College of Radiology 6	Voting
	Dennis	Ballance	American College of Veterinary Radiology	Voting
	Matthew	Wright	American College of Veterinary Radiology	Alt. Voting
	William	Hornof	American College of Veterinary Radiology 2	Voting
Present	Veeratrishul	Allareddy	American Dental Association	Alt. Voting
	Paul	Bralower	American Dental Association	Observer
	Gregory	Zeller	American Dental Association	Voting
	Robert	Godward	Apteryx, Inc.	Observer
	Tyler	Sutton	Apteryx, Inc.	Observer
	Patrick	Williams	Apteryx, Inc.	Observer
	Patrick	Howard	ASTM DICONDE	Observer
Present	Emmanuel	Cordonnier	b<>com	Voting
	Guillaume	Pasquier	b<>com	Alt. Voting
	Kenneth	Wang	Baltimore VA Medical Center	Observer
	Sridhar	Balasubramanian	Bayer Radiology and Interventional	Alt. Voting
	Blaine	Horvath	BioClinica, Inc	Observer
	Rahul	Choudhury	Boston Scientific	Observer
	David	Flade	Brainlab AG	Alt. Voting
	Klaus	Neuner	Brainlab AG	Alt. Voting
	Christof	Schadt	Brainlab AG	Voting
	Alexandre	Savaris	Brazil National Institute of Science & Technology for Digital Convergence	Voting
	Alexandra	Monteiro	Brazilian College of Radiology	Voting
	Alair Augusto Sarmet	Santos	Brazilian College of Radiology	Observer
	Attila	Farkas	Canada Health Infoway	Alt. Voting
	Raqia	Hazam	Canada Health Infoway	Voting
	Andrea	MacLean	Canada Health Infoway	Observer
	Richard	Neugebauer	Canon Development Americas	Observer
	Kuniko	Ono	Canon Inc.	Observer
Present	Kevin	O'Donnell	Canon Medical Research USA, Inc.	Voting
	Yasunari	Shiokawa	Canon Medical Systems Corporation	Observer
	David	Foos	Carestream Health, Inc.	Observer
	Uma	Rao	Carestream Health, Inc.	Alt. Voting
	Kevin	Robinson	Carestream Health, Inc.	Voting
	Marita	Bergmann	Carl Zeiss Meditec AG	Alt. Voting
	Régis	Deshayes	Carl Zeiss Meditec AG	Voting

	Susanne	Hornauer	Carl Zeiss Meditec AG	Alt. Voting
	Biagio	Merlino	Catholic University of Rome	Observer
	Chen	Zheng	Center for Medical Device Evaluation	Observer
	Jia	Zheng	Center for Medical Device Standardization Administration,CFDA	Voting
	Kinson	Ho	Change Healthcare	Alt. Voting
Remote	Allan	Noordvyk	Change Healthcare	Observer
	Elliot	Silver	Change Healthcare	Voting
	Cristian	Stegaru	Change Healthcare	Observer
	Karsten	Schluens	Charité - Universitätsmedizin Berlin	Observer
	Bryan	Fan	CIMICS	Observer
	Zhongjun (John)	Gao	CIMICS	Alt. Voting
	Michael	Li	CIMICS	Observer
	Qiang	Li	CIMICS	Observer
	Li-xin	Pu	CIMICS	Alt. Voting
	Jianming	Qu	CIMICS	Voting
	Young Lae	Moon	Chosun University Hospital	Observer
	Ying	Wang	CMDE	Observer
	Mary	Kennedy	College of American Pathologists	Observer
	Doug	Murphy	College of American Pathologists	Voting
	Bruce	Beckwith	College of American Pathologists/North Shore Medical Center	Alt. Voting
	David	Allen	Corista LLC	Alt. Voting
	Eric	Wirch	Corista, LLC	Voting
	Steve	Lord	DaPict, Inc.	Observer
	Jere	Darling	DatCard Systems, Inc.	Observer
	Wayne	DeJarnette	DeJarnette Research Systems	Observer
	Charles	Stockham	DeJarnette Research Systems	Observer
	Nicole	Eter	Deutsche Ophthalmologische Gesellschaft	Voting
	Philp	Gass	Deutsche Ophthalmologische Gesellschaft	Alt. Voting
	Karsten	Kortum	Deutsche Ophthalmologische Gesellschaft	Alt. Voting
	Birgit	Mele	Deutsche Ophthalmologische Gesellschaft	Alt. Voting
	Elmar	Kotter	Deutsche Röntgengesellschaft	Voting
	Carl	Crawford	DHS/Consultant	Observer
	Donald	Van Syckle	DVS Consulting, Inc.	Observer
	Jim	Percy	Elekta Inc.	Voting
	Charles	Hottinger	Esaote North America	Observer
	François	Gousset	ETIAM	Observer
	Gilles	Mevel	ETIAM	Observer
	Sergio	Santoro	Eurisko	Observer

	Alberto	Torresin	European Federation of Organizations for Medical Physics (EFOMP)	Alt. Voting
	Annalisa	Trianni	European Federation of Organizations for Medical Physics (EFOMP)	Voting
	Nico	Bruining	European Society of Cardiology	Voting
	Peter	Mildenberger	European Society of Radiology (ESR)	Voting
	Jan	Stormer	European Society of Radiology (ESR)	Alt. Voting
	Robert	Horn	Fairhaven Technologies	Observer
	Daniel	Krainak	FDA	Voting
	Masao	Murata	FUJIFILM Corporation	Voting
	Kimihiko	Kazui	Fujitsu Laboratories of Japan	Observer
	Jeff	Anders	GE Healthcare	Observer
	Vijay	Arlagadda	GE Healthcare	Observer
	Yongjian	Bao	GE Healthcare	Observer
	Joji	George	GE Healthcare	Observer
Remote	Steven	Nichols	GE Healthcare	Observer
	Zhuohui	Sun	GE Healthcare	Observer
	Francisco	Sureda	GE Healthcare	Alt. Voting
	Zhanfeng	Xing	GE Healthcare	Observer
	Federica	Zanca	GE Healthcare	Observer
	Naoko	Iida	Globizz Corp	Observer
	Michio	Kimura	Hamamatsu University School of Medicine	Observer
	Jeff	Rasmussen	Hennepin Faculty Associates	Observer
	Ravi	Managuli	Hitachi Healthcare Americas	Voting
	Takuro	Ono	Hitachi Medical Corporation	Observer
	Jeffrey	Hanson	Hologic Inc.	Alt. Voting
	Janet	Keyes	Hologic Inc.	Voting
	Paul	Morgan	Hologic Inc.	Observer
	Carolyn	Reynolds	Hologic Inc.	Alt. Voting
	Isabella	Gianatiempo	Hospital for Special Surgery	Observer
	Frederic	Dessy	IBA	Voting
	David	Wikler	IBA	Alt. Voting
	Navdeep	Kooner	India Centre for Development of Advanced Computing (CDAC)	Alt. Voting
	Jung Bin	Kim	Infinitt Healthcare Co., Ltd.	Observer
	Yong-Seok	Kim	Infinitt Healthcare Co., Ltd.	Observer
	Leodan Vega	Izaguirre	Informatics Science University	Observer
	Charles	Parisot	InteropEhealth	Observer
	Terence	O'Beirne	Intertek	Observer
	HarishBabu	Dharmalingan	IQVIA	Observer
	Johan	Moreau	IRCAD	Observer

	Yoshitake	Fujisaku	JAHIS	Observer
Remote	Murata	Jahis	JAHIS	Voting
Remote	Watanabe	Jahis	JAHIS	Alt. Voting
Present	Shinichi	Nakano	JIRA	Alt. Voting
	Makoto	Suzuki	JIRA	Alt. Voting
Remote	Akihiro	Yomoda	JIRA	Alt. Voting
	Mary	Cokley	John Hopkins University School of Medicine	Observer
	Jon	Elion	Jon Elion	Observer
	Yagahara	Ayako	JSRT	Observer
	Minoru	Kawamata	JSRT	Alt. Voting
	Yasuo	Okuda	JSRT	Observer
	Hiroshi	Sakamoto	JSRT	Voting
	Hiroaki	Tada	JSRT	Observer
	Takumi	Tanikawa	JSRT	Observer
	Hideto	Yokoi	Kagawa University Hospital	Observer
	Chris	Bope	KaVo Kerr Group	Observer
	Todd	Hall	Konica Minolta Medical Imaging USA, Inc.	Observer
	Michael	Laconti	Konica Minolta Medical Imaging USA, Inc.	Voting
	Hee-Joung	Kim	Korean PACS Standards Committee	Voting
	II Kon	Kim	Kyungpook National University	Observer
	Sungkee	Lee	Kyungpook National University	Observer
Remote	Harry	Solomon	Laitek	Observer
Present	Fred	Behlen	Laitek Inc.	Voting
	Razvan	Costea-Barlutiu	Laitek Inc.	Observer
	Douglas	Sluis	Laitek Inc.	Alt. Voting
	Bronson	Hokuf	Laurel Bridge Software, Inc.	Observer
	T. Roger	Keane	Laurel Bridge Software, Inc.	Observer
	Elliot	Lord	Laurel Bridge Software, Inc.	Observer
	Harry	Martz	Lawrence Livermore National Laboratory	Observer
	Anne	Brumme	Leica Biosystems Inc.	Alt. Voting
	Julian	Burke	Leica Biosystems Inc.	Voting
	Mandel	Mickley	Leica Biosystems Inc.	Alt. Voting
	Dave	Toomey	Leica Biosystems Inc.	Alt. Voting
	Terron	Bruner	Lexmark	Observer
	Joel	Friedman	LightLab Imaging, Inc.	Observer
	Robert	Steinbrecher	LightLab Imaging, Inc.	Observer
	Daniel	Vreeman	LOINC	Voting
	Bertrand	Guilleminot	Maquet S.A.	Observer
	Arvind	Thiagarajan	Matrixview USA Inc.	Observer

Present	Ken	Persons	Mayo Clinic	Observer
	Jack	Hsiao	Medical Image Standards Association of Taiwan	Observer
	Chung-Yueh	Lien	Medical Image Standards Association of Taiwan	Voting
	Kuo	Ming-Fang	Medical Image Standards Association of Taiwan (MISAT)	Observer
	Jenn-Lung	Su	Medical Image Standards Association of Taiwan (MISAT)	Observer
	Yuh-Show	Tsai	Medical Image Standards Association of Taiwan (MISAT)	Observer
	Bob	Goedhart	Medis Medical Imaging Systems BV	Observer
	Ronald	Cowan	Merge Healthcare an IBM Company	Voting
	Keith	Klassy	Merge Healthcare an IBM Company	Observer
	Jacques	Charlier	Metrovision	Observer
	Evgeny	Salnikov	Microsoft Corporation	Observer
	Woei-Chyn	Chu	MISAT	Observer
	Viking Shih-Tsang	Tang	MISAT c/o Ming Chuan University	Observer
	Patrick	Hope	MITA	Voting
Remote	Luiza	Kowalczyk	MITA	Alt. Voting
Present	Lisa	Spellman	MITA	Voting
	Shin	Hasegawa	National Institutes for Quantum and Radiological Science and Technology	Observer
	James	Luo	National Institutes of Health	Observer
	Eve	Shalley	National Institutes of Health	Observer
	Ulrike	Wagner	NCI/CBIIT, Leidos Biomedical Research, Inc	Alt. Voting
	Robert	Leif	Newport Instruments	Observer
	Charles	Smith	Numa LLC	Observer
	Herman	Oosterwijk	OTECH, Inc.	Observer
	Dan	Hosseinzadeh	PathCore Inc.	Observer
	Richard	Esmond	PenRad Inc	Observer
	Tony	Jasionowski	PHC co.,Ltd	Observer
Remote	Katsuya	Watanabe	PHC co.,Ltd	Voting
	Wim	Corbijn van Willenswaard	Philips	Observer
	Joe	Luszcz	Philips	Alt. Voting
Present	Jeroen	Medema	Philips	Voting
	Jeffrey	Pohlhammer	Philips	Alt. Voting
	Howard	Alpert	Philips Volcano	Observer
Present	David	Clunie	PixelMed Publishing	Voting
	Mark	Thurston	Plymouth Hospitals NHS Trust	Observer
	Richard	Ball	Qi Imaging, LLC	Observer
	Yaron	Kottler	QualiTest Group	Observer

	Win	Swarr	QualiTest Group	Observer
Remote	Justin	Ryan	Rady Children's Hospital	Observer
	Chris	Carr	Radiological Society of North America	Voting
	Jamie	Kontos	Radiological Society of North America	Observer
	Suresh	Viswanathan	Raster Images	Observer
	John	Freymann	SAIC-Frederick Inc.	Observer
	Andrew	Casertano	SAN Business Consultants, LLP	Observer
	Krister	Valtonen	Sectra AB	Voting
	Allison	Bertrand	Seno Medical Instruments, Inc.	Alt. Voting
	Bryan	Clingman	Seno Medical Instruments, Inc.	Voting
	Matthias	Drobnitzky	Siemens Healthcare GmbH	Observer
Present	Andreas	Klingler	Siemens Healthcare GmbH	Voting
Present	Björn	Nolte	Siemens Healthcare GmbH	Observer
	Antje	Schroeder	Siemens Healthcare GmbH	Alt. Voting
	Nikolaus	Wirsz	Siemens Healthcare GmbH	Observer
	Mohammed	Aleem	Siemens Healthineers	Observer
	Thomas	Healy	Siemens Healthineers	Observer
	Till	Hoenig	Siemens Healthineers	Alt. Voting
	Reinhard	Ruf	Siemens Healthineers	Observer
	Zuo	Zhang	Singapore Agency for Science, Technology & Research (A*STAR)	Observer
	Steve	Munie	Smartlink Health Solutions	Observer
	Giorgio	Perron Cabus	Societa Italiana di Radiologia Medica	Observer
	Palmino	Sacco	Societa Italiana di Radiologia Medica	Observer
	Ivan	Bricault	Société Française de Radiologie	Observer
	Joel	Chabriais	Société Française de Radiologie	Observer
	Cheryl	Kreider Carey	Society for Imaging Informatics in Medicine	Alt. Voting
	Paul	Nagy	Society for Imaging Informatics in Medicine	Voting
	Mike	Bettenay	Sonic Healthcare	
	Tetsuo	Kojima	Sony Corporation	Observer
	Michitada	Kobayashi	Sony Imaging Products & Solutions Inc.	Voting
	Yuji	Kohga	Sony Imaging Products & Solutions Inc.	Alt. Voting
	Marcial	Garcia Rojo	Spanish Health Informatics Society	Voting
	Marta	Vastagh	Staffhome	Observer
	Stephen	Vastagh	Standards Management Company	Alt. Voting
	Ido	Bitan	Stratasys	Observer
	Jacques	Souquet	SuperSonic Imagine	Voting
	Alpo	Varri	Tampere University of Technology	Observer
	Heinz	Lemke	Technical University Berlin	Observer

	Maria	Kallergi	Technological Educational Institute of Athens	Observer
	Yuan	Fang	The Center for Devices and Radiological Health (CDRH)	Alt. Voting
	Martin	Perry	The Perry Group	Observer
	Yanna	Kang	U. S. Food and Drug Administration	Alt. Voting
	Sunder	Rajan	U.S. Food and Drug Administration	Voting
	Lawrence	Tarbox	University of Arkansas for Medical Sciences	Voting
	Erik	Schreiber	University of Leipzig, ICCAS	Observer
	Ulysses	Balis	University of Michigan	Observer
	Yulong	Yan	University of Texas Southwestern Medical Center	Observer
	Yijun (Eugene)	Huang	University of Wisconsin	Observer
	Mohamed	El Kayyali	University San Martin De Porres	Observer
	Daniel	Augsburger	Varian Medical Systems Imaging Laboratory GmbH	Observer
	Ulrich	Busch	Varian Medical Systems International AG	Voting
	Mikael	Wintell	Vastra Gotalandsregionen	Observer
	Bruce	Curran	Virginia Commonwealth University	Observer
	Andrei	Leontiev	Visage Imaging	Observer
Present	Marc	Kaemmerer	VISUS Health IT GmbH	Voting
	Gavin	Smith	Voxon Photonics	Observer
	Michael	Aratow	Web3D Consortium	Alt. Voting
	Nigel	John	Web3D Consortium	Alt. Voting
	Nicholas	Polys	Web3D Consortium	Voting
	Byungdu	Jo	Yonsei University	Observer
	Wonsuk	Kang	Yonsei University	Observer
	Lynne	Fairobent		Observer
	Laszlo	Gasztonyi		Observer
	Florian	Knicker		Observer
	Bas	Revet		Observer

1. **Opening**
   1.1. Call to order and roll call.
   1.2. Antitrust and patent rules review.
   1.3. Agenda review and approval. Was approved with no changes.
   1.4. Review of minutes from 29 November 2018. Approved with no changes.

2. **Governance and Procedures status update** (Jeroen, Kevin)
   <Action 1> Send a communication that includes comments disposition for 30 days for member review. Lisa to work with task group on timing. (Lisa)

3. **Appointment of nominating subcommittee for next vendor co-chair** (Lisa)
   - Per DICOM guidelines, a nomination subcommittee is needed to manage procedures for the nomination of a new vendor co-chair. The term for Jeroen Medema, Philips, concludes at the end of 2019.
   - **Volunteers**: John Carrino, Kevin O'Donnell, Emmanuel Cordonnier
   - **Issue a ca**ll: Issue call (Lisa to work with nominating committee on date range)
   - **Deadline:** For presentation of candidates at the Sept/Oct 2019 Thailand meetings

4. **Chinese YY/T Standard** (Andreas)
   - Draft: Basic Requirements of Communication and Conformance for Medical X-ray Image Equipment.

   <Action Item 3 from Nov 2018 DSC meeting>: Discuss this topic at the next meeting.
   Owner: Andreas Klingler
   - 2020-2021 next version update
   - They have an English translation that Andreas has provided and will be placed in meeting folder.
   - This is going to be mandatory in China.
   - Their public comment process is complete and the document is apparently in final text, but has not yet been published at the time of this meeting.

   <Action 2>
   a. Present to WG-06 for review at the June meeting. (Lisa/Luiza)
   b. Present to MITA X-Ray WG for FYI. (Lisa)

5. **New DICOM Membership Applications** (Lisa)

   5.1 Hitachi Healthcare
   - Contact them and ask if they might be interest to WG-16, WG-21 as well, along with welcome.
   - **MOTION**:
   - **Approved Unanimous**. No objections or abstentions. No comments.

   5.2 LOINC
   - **MOTION**:
   - **Approved Unanimous**. No objections or abstentions. No comments.

6. **New DICOM Work Item Proposals (NWIP)**

   6.1 WG-05_NWIP-Enhanced_Directory+Shared_Fileset
   - Presented by Laitek
   - Fred Behlen presented
   - See proposal for details
   - Discussion
   - **MOTION**: Move for WG-10 to convene a workshop soon (within coming months) to address issues as identified in Fred's proposal and to table the work item proposal. Since target stakeholders might not be aware or able to attend, please be sure to spread the word about this activity to ensure greatest participation.
   - **Motion Approved.** No objections or abstentions.
   - ***Discussion***:
     - Fred noted that they will flesh out some implementation, use cases and diagrams as discussed.

   <ACTION 3> Work with WG-10 chairs to schedule workshop as described in approved motion.
   Lead: Lisa to work with Ken & Kevin

6.2 WG-08_Prostate imaging SR - DICOM work item request

- David Clunie presented on behalf of submitter Andrey Fedorov.
- **MOTION:** Motion to approve work item as presented. 2nd.
- **Motion Approved.** No objections or abstentions.

6.3 WG-19_Work_Item_Request_Dermoscopy_20190319

- David Clunie presented on behalf of Liam Caffery / WG-19
- WG-19 reactivating with secretariat, International Dermoscopy Society (IDS, and support funding
- **MOTION:** Motion to approve work item as presented. 2nd.
- **Motion Approved.** No objections or abstentions.

6.4 WG-23_SimplifiedSRInJSONForAIResults

- David Clunie presented on behalf of WG-23
- **MOTION:** Motion to approve work item as presented including cancelation of work item 2012-11B
- **MOTION:** Motion to approve work item as presented. 2nd.
- **Motion Approved.** No objections or abstentions.

WG-05_NWIP-Enhanced_Directory+Shared_Fileset- 2019-04-A
WG-08_Prostate imaging SR - DICOM work item request – 2019-04-B
WG-19_Work_Item_Request_Dermoscopy-2019-04-C
WG-23_SimplifiedSRInJSONForAIResults-2019-04-D

7. New Proposed Names for DICOM Working Groups

- Please note WG-17 has a proposal for a revised scope and name.

8. New DICOM Workgroup Proposal

- There were no new DICOM workgroup proposals.

9. DICOM Working Group Reports

WG-01 Cardiac and Vascular Information

- Link: https://www.dicomstandard.org/wgs/wg-01/
- Lisa presented for WG-01. Please see written report

WG-02 Projection Radiography and Angiography

- Link: https://www.dicomstandard.org/wgs/wg-02/
- No written report. Is on WG-06 June agenda

WG-03 Nuclear Medicine

- Link: https://www.dicomstandard.org/wgs/wg-03/
- No written report

WG-04 Compression -Dormant

- Link: https://www.dicomstandard.org/wgs/wg-04/
- David Clunie presented for WG-04. See written report.
- JPEG is working on something new that may be of interest. There is a possible emerging problem with these multiple formats. JPEG has formally asked for medical requirements

- Raise the topic of the need for new transfer compression syntaxes for encapsulation and better compression use cases
- **MOTION:** WG-10 to discuss the strategic issues related to new transfer compression syntaxes. 2nd.
- **Motion Approved.** No objections or abstentions **Timeframe**: Is timely but not urgent

<Action 4> Place for action for WG-10 review and discussion

- **MOTION**: To empower DC and WG-04, to update the medical requirement for compression document for the ISO/ITU/JTC and any other relevant entities and provide to suitable testing images.
- Motion received a 2nd,
- **Motion Approved.** No objections or abstentions **Timeframe**: Is timely but not urgent

<Action 5> Place for action for WG-10 review and discussion

Copied from WG-04 Rennes report on this topic:

- Challenges and Opportunities (Environment):
- A recent spate of new video and still frame compression schemes raises the question of the need for new Transfer Syntaxes
- Mobile device still frame compression schemes beyond JPEG need to be considered
- Enterprise image encapsulation use cases need to be balanced against interoperability issues raised by proliferation of schemes

WG-05 Exchange Media - Dormant

- Link: https://www.dicomstandard.org/wgs/wg-05/
- No report

WG-06 Base Standard

- Link: https://www.dicomstandard.org/wgs/wg-06/
- Bjorn Nolte gave report

WG-07 Radiotherapy

- Link: https://www.dicomstandard.org/wgs/wg-07/
- It was noted that Uli Busch retired. His many years of participation was noted and appreciated.
- Please see written report

WG-08 Structured Reporting and Common Data Elements

- Link: https://www.dicomstandard.org/wgs/wg-08/
- No written report
- David Clunie reported that they had first teleconference in a while, so work is underway.
- Still supported by RSNA.

WG-09 Ophthalmology - Dormant

- Link: https://www.dicomstandard.org/wgs/wg-09/
- No report.

WG-10 Strategic Advisory

- Link: https://www.dicomstandard.org/wgs/wg-10/
- Working on RSP, on SWOT document and tasked with some items from WG-29
- We thanked our outgoing user co-chair, Greg Zeller and welcomed our new user co-chair Ken Persons

WG-11 Display Function Standard – Dormant

- Link: https://www.dicomstandard.org/wgs/wg-11/
- No report.

WG-12 Ultrasound

- Link: https://www.dicomstandard.org/wgs/wg-12/
- See written report

WG-13 Visible Light

- Link: https://www.dicomstandard.org/wgs/wg-13-visible-light/
- Emmanuel gave report. See written report

WG-14 Security

- Link: https://www.dicomstandard.org/wgs/wg-14/
- Lawrence Tarbox gave report.
- Struggling with passive volunteers
- DICOM is an interchange communication standard, not a process standard, so we are not really set-up for providing much guidance around process. The technical means are there, where is the place for these strategy documents? If you were starting from scratch, how would you secure your organization, what does the PACS administrator have to do to secure DICOM?
- Discussion
  - Where to post such documents? Do this through MITA or on DICOM website "How to use DICOM" – process if it went anywhere would be in WG-17. Needs a home, but not sure where should live. MITA for US, COCIR & JIRA to get global coverage.
  - These issues really impact the entire organization, more than just imaging.
  - There is missing a health organization security framework is really needed where we could work on the DICOM piece

<Action 6> Update the DICOM web page with content speaking to what DICOM does provide with regard to cybersecurity (Lisa, Luiza)

- Links to recent media topics & white hacking as discussed
- https://www.washingtonpost.com/technology/2019/04/03/hospital-viruses-fake-cancerous-nodes-ct-scans-created-by-malware-trick-radiologists/?noredirect=on&utm_term=.d7f724c8b0f4
- CT-GAN: Malicious Tampering of 3D Medical Imagery using Deep Learning
- https://arxiv.org/abs/1901.03597
- video at: http://tinyurl.com/cancerdemovid

WG-15 Mammography and CAD

- Link: https://www.dicomstandard.org/wgs/wg-15/
- Dormant, but do provide feedback on CPs and such when requested

WG-16 Magnetic Resonance

- Link: https://www.dicomstandard.org/wgs/wg-16/
- Request was made to please expand the scope; the last edit was too vague. Look at other modalities as a model for scope revision.

WG-17 3D Manufacturing

- Link: https://www.dicomstandard.org/wgs/wg-17/

WG-18 Clinical Trials and Research-Dormant

- Link: https://www.dicomstandard.org/wgs/wg-18/
- No report

WG-19 Dermatology

- https://www.dicomstandard.org/wgs/wg-19/
- David Clunie presented on behalf of Liam Caffery / WG-19
- WG-19 reactivating with secretariat, International Dermoscopy Society (IDS, and support funding
- **MOTION:** Motion to approve work item as presented. 2nd.
- **Motion Approved.** No objections or abstentions.

WG-20 Integration of Imaging and Information Systems

- Link: https://www.dicomstandard.org/wgs/wg-20/
- See written report
- It was noted that we want to continue to ensure this group persists to ensure alignment between DICOM & HL7.

WG-21 Computed Tomography

- Link: https://www.dicomstandard.org/wgs/wg-21/
- Poor track record for getting new IODs implemented.
- It was suggested that they focus on raising awareness and getting adoption of Supplement 188
- It was suggested to perhaps do an IHE profile for multi-energy CT

WG-22 Dentistry

- Link: https://www.dicomstandard.org/wgs/wg-22/
- DSC encourages & note the importance of STL files as a solution to this problem
- Encapsulation of the STL file is appropriate solution for their use case

WG-23 Artificial Intelligence/Application Hosting

- Link: https://www.dicomstandard.org/wgs/wg-23/
- Two main projects underway
- Result reporting: Identify results and catalogue

WG-24 DICOM in Surgery-Dormant

- Link: https://www.dicomstandard.org/wgs/wg-24/

WG-25 Veterinary Medicine-Dormant

Link: https://www.dicomstandard.org/wgs/wg-25/

WG-26 Pathology

- Link: https://www.dicomstandard.org/wgs/wg-26/
- David Clunie gave verbal report
- Active work continues, doing several Connectathons

- Digital Pathology better uptake in Europe; FDA continuing to place roadblocks because thought that whole slide is not as good at optical microscopes; heavily customized systems already in place, not as much support for enterprise-wide support for their specialized workflow; implementation would increase image files 2-3x

WG-27 Web Technology for DICOM

- Link: https://www.dicomstandard.org/wgs/wg-27/
- There was a discussion about the relative value of the re-documentation activity

WG-28 Physics

- Link: https://www.dicomstandard.org/wgs/wg-28/
- There is some work on the RDSR activity. No written report

WG-29 Education, Communication, and Outreach

- Link: https://www.dicomstandard.org/wgs/wg-29/
- See written report

WG30 Small Animal Imaging - Dormant

- No active work, maybe possible projects coming up.

WG31 Conformance

- Link: https://www.dicomstandard.org/wgs/wg-31/
- Supplement 209 meeting weekly, working to involve other WGs

WG32 Neurophysiology Data

- Link: https://www.dicomstandard.org/wgs/wg-32/
- See written report

10. Stakeholder Reports

10.1 Japan report

- Hiroshi Sakamoto, JSRT, Masao Murata, JAHIS, and Shinichi Nakano/ JIRA
- Please see written report

10.2 IEEE

- Harry Solomon presented the report
- The question was asked to provide additional clarification about the problem that this solves

<Action 7> Send the slide deck to WG-17 as an FYI and invite Harry to give a 5-10 min presentation to WG-17 so he can share information and answer any questions. (Lisa)

11. DICOM documents recently updated

https://docs.google.com/spreadsheets/d/1y5mY8CcBE9BduJ9HRwFGZskAwQSmQFWkKQLcTO8a5J4/edit#gid=0

12. DICOM website updates

Regular updates are being made on the DICOM website including:

- PPTs from previous DICOM Conferences can be found at: https://www.dicomstandard.org/conferences/past/
- DICOM templates: https://www.dicomstandard.org/resources/templates/

- DICOM Supplements: https://www.dicomstandard.org/supplements/

13. New Business

- No new business was presented.

14. Old Business

- No old business was presented.

15. Next Meetings – tcons

- In conjunction with Bangkok, Thailand F2F – see below

DICOM WG-29 ECO t-cons

- *Tuesday, May 14, 2019, 10:00-11:00 US ET*
- *Tuesday, June 18, 2019, 10:00-11:00 US ET*

http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx

16. Next meetings – in person

Date: 30 Sept – 4 Oct 2019 -- Location: Bangkok, Thailand

Group meeting: DICOM WG-29 Education, Communication, and Outreach (ECO) & DICOM WG-10 Strategic, DSC and DICOM Educational Conference

SCHEDULE

- Monday 30 September: DICOM WG-10 Strategic, 0900 – 1600 local time in Bangkok
- Tuesday 1 October: DICOM WG-29, ECO, 0900 – 1600 local time
- Wednesday 2 October: DICOM Standard Committee, 0900 – 1600 local time
- Thursday & Friday, 3-4 October: DICOM Educational Conference, 0900 – 1600 or 1700 local time

<Action 8 > Add RSNA 2019 & 2020

Possible locations to research (Lisa, Luiza)

1. Taiwan: Work with Chung-Yueh Lien
2. India, Bangalore:
3. Brussels: Connectathon will be there in 2020, contact CEN, for before 19-20 March 2020 and then WG-06 in Japan the beginning of April
4. ECR: March 11-15 meeting day, 2020 in Vienna, Meet afterwards
5. Joint Colinista Republica Colinsta Radiology Conference: Regional Society ACR/JPR/RSNA: RAD meeting in Sao Paulo in May 2020 – John Carrino is the contact

HL7 January meeting 2020

Feb 5-6th: WG-10 & WG-29
TBD: WG-20
Fri 7th: ISO/TC215

17. Adjournment

Meeting adjourned at 17.00 local Rennes time. Report prepared by Lisa Spellman and Luiza Kowalczyk, DICOM Secretariat staff.

Report reviewed by MITA/NEMA legal counsel: CRS, May 9, 2019.