

## Minutes – Web Conference

### DICOM Standard Committee (DSC)

**Date and Time** Friday, December 4, 2020, 9:00AM-2:00PM EST

**Location** Remote

**Presiding Officers:** Brad Genereaux, NVIDIA, Producer Co-Chair  
Lawrence Tarbox, University of Arkansas, User Co-Chair

**DICOM Secretariat** Carolyn Hull, MITA  
Shayna Knazik, MITA

#### Voting Members Present

AAPM/UAMS	Larry Tarbox, Chair
AAPM	Bruce Curran, Alt-Voting
Agfa	Paul Seifert
American Dental Association	Trishul Allareddy, Alt-Voting
Canon	Kevin O'Donnell
Carl Zeiss	Stefanie Freitag
Deutsche Röntgengesellschaft	Elmar Kotter
Elekta Inc.	Jim Percy
GE Healthcare	Steven Nichols
Hologic	Janet Keyes
JAHIS	Masao Murata
JIRA	Akihiro Yomoda, Alt-Voting
JIRA	Shinichi Nakano, Alt-Voting
JSRT	Hiroshi Sakamoto
Laitek Inc.	Fred Behlen
MISAT	Chung-Yueh Lien
MITA/DICOM	Carolyn Hull
NVIDIA	Brad Genereaux, Chair
Philips	Jeroen Medema
PixelMed	David Clunie
Siemens Healthineers	Andreas Klingler
VISUS Health IT GmbH	Marc Kaemmerer
Seno Medical	Allison Bertrand, Alt-Voting

#### Voting Members Not Present

<b>Com	Laurent Launay
AAPM	Donald Peck
ACC	Bruce Bray
Accuray	Bob Pekarek
ACR	Brian Bialecki

American Academy of Oral and Maxillofacial Radiology (AAOMR)	Allan Farman
American Association of Orthodontists	Kirt Simmons
American College of Radiology 2	Steven Horii
American College of Veterinary Radiology	Dennis Ballance
American Dental Association	Gregory Zeller
Brainlab AG	Christof Schadt
Brazil National Institute of Science & Technology for Digital Convergence	Alexandre Savaris
Brazilian College of Radiology	Alexandra Monteiro
Canada Health Infoway	Smita Kachroo
Carestream Health, Inc.	David Foos
Carestream Health, Inc.	Kevin Robinson
Carl Zeiss Meditec AG	Régis Deshayes
Center for Medical Device Standardization Administration,CFDA	Jia Zheng
China Institute for Medical Imaging & Communication Stds.(CIMICS)	Jianming Qu
Corista, LLC	Eric Wirch
Deutsche Ophthalmologische Gesellschaft	Nicole Eter
European Federation of Organizations for Medical Physics (EFOMP)	Annalisa Trianni
European Society of Cardiology	Nico Bruining
European Society of Radiology (ESR)	Peter Mildenberger
FDA	Daniel Krainak
Hitachi Healthcare Americas	Ravi Managuli
IBA	David Wikler
Konica Minolta Healthcare Americas, Inc.	Michael Laconti
Korean PACS Standards Committee	Hee-Joung Kim
LOINC	Daniel Vreeman
Merge Healthcare an IBM Company	Ronald Cowan
Pall Corporation	Julian Burke
PHC co.,Ltd	Katsuya Watanabe
Radiological Society of North America	Chris Carr
Sectra Imaging IT Solutions AB	Krister Valtonen
Seno Medical Instruments, Inc.	Bryan Clingman
Sonic Healthcare	Mike Bettenay
Sony Imaging Products & Solutions Inc.	Michitada Kobayashi
Society for Imaging Informatics in Medicine	Cheryl Carey
Spanish Health Informatics Society	Marcial Garcia Rojo
SuperSonic Imagine	Jacques Souquet
U. S. Food and Drug Administration	Sunder Rajan
Varian Medical Systems, Inc.	Kari Jyrkkälä
Web3D Consortium	Nicholas Polys

### **Observers, Alt-Voting, Others Present**

<B>Com	Guillaume Pasquier, Observer
ACR	Neil Tenenholtz, Observer
Agfa	Bill Wallace, Observer
Agfa	Bruno Laffin, Alt-Voting
Argentix Informatics	Elliot Silver, Observer
CIMICS	Bryan Fan, Observer
DesAcc	Graham King, Observer
DICOM Usergroup Austria	Silvia Winkler (confirmed member during this meeting)
DICOM/MITA	Shayna Knazik, Alt-Voting
EFOMP	Alberto Torresin, Observer
Fairhaven Technologies	Rob Horn, Observer

Former Staff  
FUJIFILM  
GE Healthcare  
ICCAS  
InteropEhealth  
iThera  
JSRT  
KaVo  
Laitek  
Mayo Clinic  
Mayo Clinic  
Raster Images  
Reutlingen University  
Reutlingen University  
Siemens Healthineers  
Siemens Healthineers  
Siemens Healthineers  
University of Maryland  
VISUS

Stephen Vastagh, Observer  
Takeichi Tatsuta, Observer  
Yongjian Bao, Observer  
Richard Bieck, Observer  
Charles Parisot, Observer  
Stefan Morsher, Observer  
Minoru Kawamata, Alt-Voting  
Chris Bope, Observer  
Harry Solomon, Observer  
Jonathan Morris, Observer  
Ken Persons, Observer  
Suresh Viswanathan, Observer  
Oliver Burgert, Observer  
Christian Kucherer, Observer  
Srividya Rajamani, Observer  
Bjoern Nolte, Observer, WG-6 Chair  
Susumu Nozawa, Observer  
Andrew Casertano, Observer  
Marc Kaemmerer, Observer

## 1. Opening

1.1 **Open, welcome and roll call.** The meeting was opened and roll call taken.

1.2 **Review of antitrust and patent rules-** These were read according to NEMA guidelines.

1.3 **Agenda review and approval**—The agenda was reviewed and approved.

1.4 **Review of minutes from August meeting for review and approval.** The August minutes were approved.

## 2. Stakeholder Reports Available on FTP: Medical/Private/DICOM/WorkGRPS/Committee/2020/2020-12-04

– **MISAT (Chung-Yueh Lien)-** Presented—see the presentation

– **CIMICs (Bryan Fan)-** Bryan Fan will send some information and send to a few members for information. Suggestion for continued communication. Will be putting together a Change Proposal.

– **JIRA (Nakano)-**

– **Action:** Work with Bryan Fan from CIMICS with WG-14 on blockchain for medical imaging. Bryan to send information

– **Action:** WG-14 to explore ideas to prevent information sent by a modality from being intercepted and tampered.

3. **Chair Election FYI-** Lawrence Tarbox has been elected for another term as user co-chair. Thank you for serving another term!

## 4. New DSC Membership Applications for review and voting

– DICOM Usergroup Austria- Silvia Winkler presented (See the application in FTP site (link)); Interoperability Forum-takes place 3x a year.

– Question: actively reminding

- Note that the DICOM Usergroup Austria should make sure to remind the membership of the patent policy and IP policies regularly.
- **Decision:** Approved unanimously.

**5. New WGs Membership Applications for review and voting**

Company	Name	Working Group	Org Patent on file (note if individual)	Disposition
iThera	Stefan Morscher	WG-34	Yes	
Universidad de Alcalá	Pascale Guitera	WG-19	Individual-Yes	
SUNY Downstate	Melissa Gill	WG-19	Individual-Yes	
San Gallicano Dermatological Institute, IRCCS	Marco Ardigo	WG-19	Individual-Yes	

**Decision:** All approved.

**6. New DICOM Work Group Proposals- None**

**None at this time.**

**7. SNOMED renewal-** David Clunie. Substance of agreement. New codes are added. Global Patient Set-other groups also have these licenses.

**Action:** Carolyn Hull to remind David Clunie to send agreement. Carolyn to add to the page (IP, e.g.) when available if SNOMED does not object.

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

Documents in this meeting’s FTP folder.

NWIP #	WG	Proposal Title	Discussion	Disposition
	24	Visual Light related multi-modal sensor and computed structured data	Suggestion that if the group wants to finish work more quickly, to keep the scope of the initial supplement narrow. Some DSC members clarified that the group could draft multiple supplements that fall within this topic without needing DSC approval.	Approved unanimously
	27	Restful 3D	Will include a trial. Steve Nichols to	Approved unanimously.

			present at upcoming WG-24 for input. Three year timeline builds in trial use.	
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9. **11:00AM ET**-15 minute break

10. **Working Group 6 Report, Bjorn Nolte, Chair- Reports available here at: [ftp:// d9-workGRPs@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Committee/2020/](ftp://d9-workGRPs@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Committee/2020/) (**

- General update
- Dormant supplements notification: Sup 182: <https://www.dicomstandard.org/News-dir/ftsup/docs/sups/sup182.pdf>
- Supplement voting pilot
- **Action:** Carolyn/Shayna to review cancellation of 3D Printing
- **182- has been sent for hibernation. Steve Nichols to review.**
- For cancelled, decide whether or not to cancel: 182, 193, and 115 have not appeared at WG-6 for three years. 193-
- **Decision:** **Cancel supplement 115**
- 10..1. **Supp 193- REST Notifications-** still discussing (within 2021 will appear at WG-6)
- 10..2. **Supp 182- Curved MPR-** Have not heard from this. There are some 3D rendering items in WG-27 and WG-17. Suggestion to redirect outreach. Jonathan Whitby in context of WG-27 as contact, and revisit as contact.
  - 10..2.1. **Motion/Action:** contact the chairs of WG 17 and 27 and Jonathan Whitby, and ask them to review in their respective working groups whether or not there is interest in continuing with this supplement, and to report back at the next DSC meeting.

**WG-6: Full week meeting schedule 2021:**

**January 11<sup>th</sup> – 15<sup>th</sup>, March 22<sup>nd</sup> – 26<sup>th</sup>, June 21<sup>st</sup> – 25<sup>th</sup>, August 30<sup>th</sup> – September 3<sup>rd</sup>, November 8<sup>th</sup> – 12<sup>th</sup>.**

11. **Other Working Group Reports (Navigate in FTP to: </MEDICAL/Private/Dicom/WORKGRPS/Committee/2020/2020-12-04/Working-Group-Activity-Reports>)**

WG-1/12-Meeting together, Image quality and strain CPs together and pixel overlay. Meeting monthly.

WG-2- Reviewed presentation. Need clinical participation. Need more user participation. Physicians or oncologists. Interventional radiologists/PET radiologist.

**Action:** Work with them to have a panel to go to, have a panel. Identify who to send questions to: e.g. WG-2. Feedback from DSC to WG-2 to suggest outreach to societies. Liaison email to engage.

Potential role for WG-29—add to the agenda. Idea to have a clinical DICOM mailing list for working groups to consult on technical questions as they arise. There could be a potential for a meeting to be scheduled each month, then cancel if it is unnecessary.

WG-3- recent CP on radionucleotides. Not meeting very regularly.

WG-4- Meeting regularly via to survey landscape, no action items or new work items yet. Possibly one or two on transfer syntaxes. No interest in medical use cases at the time.

WG-5- dormant.

WG-7-

WG-8- structured reporting

WG-9- **Action:** Ask WG or AAO (Flora) to reach out to the ISO group who have been reconsidering ophthalmology reporting. There may be overlap in the ISO work and DICOM.

WG-10-Scheduling a meeting for January-@ HL7. SAFE, e.g.

WG-11-Dormant.

WG-12-Discussed earlier.

WG-13-Dormant.

WG-14-See report.

WG-15-Generally dormant. Potential tcon with WG-20. See report for more information.

WG-16-Working on protocols and fMRI paradigms. Possibly tuning into prostate work.

WG-17-See survey info. (ISO has also been working on a 3DP item-suggested to set up a WG with WG-17).

**Action-** Send a note for WG-17 co-chairs that ISO will be reaching out to them (Kevin O'Donnell to email Shayna Knazik).

WG-18- Dormant.

WG-19-See report. Group is starting back up to work on Reflectance Confocal Microscopy Supplement.

WG-20-Integration of Imaging Integration Systems-meeting 2x a month. Working on imaging services report, and working on dose report. Submitted a work item proposal to O&O on dose reporting.

WG-21-See report.

WG-22-See report.

WG-23-See report.

WG-24-See report.

WG-25-Dormant.

WG-26-The group is working on annotations. Should be going for public comment in January.

WG-27-Still searching for a User Co-Chair. Will send out a job description again at the beginning of the year. DSC suggests reaching out to user organizations, such as SIIM. Possibility to reach out to the viewer

community. Check with PACS and VNA vendors. May be worthwhile to organize a Connectathon-type event. The DICOMWeb event in Philadelphia as a reference, e.g. Good to have didactive material.

DICOM Web Day-connecting systems, bring open source, clients and servers, etc. From IHE, there are concrete test plans. Digital pathology also hosted one. Perhaps Steve Nichols could assist, too.

Who would coordinate? Committee for Advancement of DICOM is one option. Or subgroup of WG-27. RT was doing a connectathon through AAPM as an example.

**Action:** Refer to WG-27 (Shayna Knazik)

WG-28-See report.

WG-29-See report.

WG-30-

WG-31-The supplement 209 task force is still working on the Conformance Statement. They appeared at the last WG-6 meeting in November, and may be up for public comment during the January meeting.

WG-32-Brief update from Sylvia Winkler.

WG-33-See report.

WG-34-The group has just begun meeting.

## 12. **Public database of private tags (Lawrence Tarbox)**- Discussion of a potential database at UAMS.

**Action:** Add to WG-10 agenda in January 2021 meeting (Carolyn Hull).

## 13. **New Business**

## 14. **Old Business**

## 15. **Next Meetings – tcons**

- TBD

## 16. **Next meetings – in person**

### 17.2 **Discuss possible DSC 2021 meeting schedule**

**17.2.1** These will now be now virtual unless there is a drastic change in the world COVID situation– spring and fall pair WG-10 and -29. DSC December, WG-10 in January during HL7 week.

Spring meeting will be virtual- Doodle poll.

Fall meeting: Potentially in person. Will make a proposal.

RSNA: Hopefully in person.

**Action:** Discuss in Ex Comm—proposal regarding the future in-person meetings, or if all future DSC meetings should be virtual.

## 17. **Adjournment**-The meeting adjourned at 1:26.

Submitted by: Carolyn Hull, 12/7/20

Reviewed by Counsel on 12/9/20