



Digital Imaging and Communications in Medicine

Minutes

DICOM Standard Committee (DSC)

Date and Time	Thursday, December 1, 2022, 9:00AM-5:00PM US Central time																																							
Location	S104A, McCormick Place- South Building; 2301 S Dr Martin Luther King Jr Dr, Chicago, Illinois, USA																																							
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	<table> <tr> <td>AAPM/Univ. of Arkansas for Medical Sciences</td> <td>Tarbox, Lawrence</td> </tr> <tr> <td>ADA</td> <td>Allareddy, Trishul</td> </tr> <tr> <td>Seifert, Paul</td> <td></td> </tr> <tr> <td>American Academy of Oral and Maxillofacial Radiology (AAOMR)</td> <td>Farman, Allan</td> </tr> <tr> <td>Canon Medical Research USA</td> <td>O'Donnell, Kevin</td> </tr> <tr> <td>GE Healthcare</td> <td>Nichols, Steven</td> </tr> <tr> <td>Hologic Inc.</td> <td>Keyes, Janet</td> </tr> <tr> <td>JAHIS</td> <td>Jahis, Murata</td> </tr> <tr> <td>JSRT</td> <td>Sakamoto, Hiroshi</td> </tr> <tr> <td>Laitek Inc.</td> <td>Behlen, Fred</td> </tr> <tr> <td>MITA</td> <td>Hope, Patrick</td> </tr> <tr> <td>NVIDIA</td> <td>Genereaux, Brad</td> </tr> <tr> <td>Philips</td> <td>Medema, Jeroen</td> </tr> <tr> <td>PixelMed Publishing</td> <td>Clunie, David</td> </tr> <tr> <td>Sectra Imaging IT Solutions AB</td> <td>Valtonen, Krister</td> </tr> <tr> <td>Seno Medical Instruments Inc.</td> <td>Clingman, Bryan</td> </tr> <tr> <td>Siemens Healthineers</td> <td>Nolte, Björn</td> </tr> <tr> <td>VISUS Health IT GmbH</td> <td>Kaemmerer, Marc</td> </tr> <tr> <td>JIRA</td> <td>Yomoda, Akihiro</td> </tr> </table>		AAPM/Univ. of Arkansas for Medical Sciences	Tarbox, Lawrence	ADA	Allareddy, Trishul	Seifert, Paul		American Academy of Oral and Maxillofacial Radiology (AAOMR)	Farman, Allan	Canon Medical Research USA	O'Donnell, Kevin	GE Healthcare	Nichols, Steven	Hologic Inc.	Keyes, Janet	JAHIS	Jahis, Murata	JSRT	Sakamoto, Hiroshi	Laitek Inc.	Behlen, Fred	MITA	Hope, Patrick	NVIDIA	Genereaux, Brad	Philips	Medema, Jeroen	PixelMed Publishing	Clunie, David	Sectra Imaging IT Solutions AB	Valtonen, Krister	Seno Medical Instruments Inc.	Clingman, Bryan	Siemens Healthineers	Nolte, Björn	VISUS Health IT GmbH	Kaemmerer, Marc	JIRA	Yomoda, Akihiro
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American College of Veterinary Radiology 2 b<>com	Hornof, William*
Brainlab AG	Deschanel, Muriel*
Brazil National Institute of Science & Technology for Digital Convergence	Schadt, Christof
Brazilian College of Radiology	Savaris, Alexandre*
Canada Health Infoway	Monteiro, Alexandra
Cancer Imaging Program, NCI	Harper, Joan*
Canon Medical Systems Corporation	Farahani, Keyvan*
CAP	Nakano, Shinichi
	Schap, Kevin*
China Institute for Medical Imaging & Communication Stds.(CIMICS)	Qu, Jianming
Corista, LLC	Wirch, Eric
Deutsche Ophthalmologische Gesellschaft	Eter, Nicole*
Deutsche Röntgengesellschaft	Kotter, Elmar
DICOM Usergroup Austria	Winkler, Silvia
Elekta Inc.	Percy, Jim
European Society of Radiology (ESR)	Mildenberger, Peter
FDA	Krainak, Daniel*
IBA	Wikler, David
India Centre for Development of Advanced Computing (CDAC)	Kooner, Navdeep
Konica Minolta Healthcare Americas, Inc.	Laconti, Michael
Korean PACS Standards Committee	Kim, Hee-Joung*
Leica Biosystems	Desire, Jean
Medical Image Standards Association of Taiwan	Lien, Chung-Yueh
Merge Healthcare an IBM Company	Cowan, Ronald*
Saudi Ministry of Health	Eid, Monief*
National Health Service	Sayers, Craig
Pall Corporation	Burke, Julian
PHC co.,Ltd	Watanabe, Katsuya
Radiological Society of North America	Carr, Chris
Society for Imaging Informatics in Medicine	Carey, Cheryl
Spanish Health Informatics Society	Garcia Rojo, Marcial*
Stony Brook Medicine	Saltz, Joel*
University of Verona, Italy	Menegaz, Gloria
Varian Medical Systems Finland Oy	Jyrkkälä, Kari
Web3D Consortium	Polys, Nicholas*

Observers, Alt-Voting, Others Present

DNP	Tateishi, Kiyoko
Fairhaven Technology	Horn, Robert
Laitek Inc.	Costea-Barluti, Razvan
Laitek Inc.	Solomon, Harry
Mayo Clinic	Park, Brian

Microsoft Corporation
Numa LLC
University of Maryland

Gabriel, Ian
Smith, Charles
Casertano, Andrew

DICOM Staff

Hull, Carolyn- DICOM General Secretary
Knazik, Shayna- Senior Project Manager
Hope, Patrick- MITA Executive Director

1.1 Opening

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

1.2 **Review of antitrust and patent rules-** The meeting was called to order. Attendees were reminded of the [Guidelines for Conducting NEMA Meetings](https://www.dicomstandard.org/patent) and Patent Disclosure Policy, which may be found here: <https://www.dicomstandard.org/patent>.

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

1.4 **Review of minutes from September Montreux meeting for approval-** These were approved.

1.5 Action items review-

- 1.5.1 Bryan Fan/Nakano-san to research a character issue within DICOM then set up a follow up teleconference with DICOM WG-6 Base Standard/Ingo Wilkening. They will likely submit a CP for the November WG-6 Base Standard meeting. (Have been working on this issue- Nakano-san and Bryan Fan has sent the CP- Bryan Fan will mention during update).
- 1.5.2 Carolyn Hull to circulate letter ballot for DSC leadership to DSC members. (Done)
- 1.5.3 Carolyn Hull to make updates to procedures lowering minimum ballot and comment period timing and add to the website; WG-6 to gather input on timing an ongoing basis. (Done)
- 1.5.4 AI item- Add to DSC agenda to consider whether new DICOM work items should consider AI. (Done)
- 1.5.5 All members: Members to identify their representatives to ISO TC 215 if applicable and ensure they vote in favor of a new proposal which essentially contains the DICOM Standard. (Done)
- 1.5.6 Carolyn Hull to check back with Shayna Knazik on cancellations of RT-related work items. (Done)
- 1.5.7 Carolyn Hull to send out an email to Chairs gauging interest in holding a meeting in Chennai along. (Still TBD)
- 1.5.8 Carolyn Hull to reach out to Chris Carr to get added to email list for WG-8. (Done)

1.6 Stakeholder Reports- (invited)

- 1.6.1 **JIRA-** see report in FTP folder
- 1.6.2 **CIMICS- Action:** Bryan Fan to send breakdown of CIMICS membership (by modality, etc.) to Carolyn Hull.
- 2. **DICOM Leadership Update-** Congratulations to Annalisa Trianni on being elected User Co-Chair of the DICOM Standard Committee for 2023-2024!
- 3. **DICOM Secretariat Update-**

Break @ 10:30

4. New DSC Membership Applications for review and voting-None.

5. New WGs Membership Applications for review and voting-

Company	Name	Working Group	Patent Agreement on file (note if individual)	Disposition
Sir Ketumile Masire Teaching Hospital	Tonic Motswakgomo	28	Yes	
TU Delft (Technology University)	Justin Dauwels	32	Yes	

6. New DICOM Work Item Proposals (NWIP)

Documents are available in this meeting's FTP folder.

NWIP #	WG	Proposal Title	Discussion	Disposition	Author
2022-12A	2	DX and RF Modality Protocol Storage		Approved	Heinz Blending er
2022-12B	19	Total Body Photography		Approved	Liam Caff ery
	27	DICOMweb Tree Structured Metadata	Return with a revised work item focusing on those. Suggestion to review Supplement 157. Share why the Supplement 157 does not work. Prefer formats that have an RFC instead of individual solution. Format the work item to address each of the key elements (tag name/ion/value representation) separately. Reference: 2011-09-WorkItemRequest_Mul	Send back to WG-27 to review and look into multiframe approach.	Bill Wallace, Chris Haf ey

			tiFrameConsolidation_20110825_DAC.doc, which was the start of Sup 157, and includes the statement "this work item was initiated in order to obviate the need for WG-27 to develop a completely new approach, and rather to re-use as much of the existing standard as is possible."		
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7. New DICOM Working Group Proposals

- a. None this meeting.

12:00PM-(Lunch break)- Thank you to the ACR for cosponsoring this lunch!

- 8. **Vulnerability Statement** (Rob Horn)- **Action:** Send to legal with list of questions. See if Zack Hornberger has checked with their WGs regarding commitment language.

Up for discussion: Type of review (circulate, have committee review and vote on it).

Motion: process is WG-14 will continue developing/review what other SDOs/whether other DSCs and with MITA legal, then circulate to DSC two weeks before the meeting, formal vote.

- 9. **Working Group 6 Report** (Bjoern Nolte, Chair)- Suggestion from Brad Genereaux to bring attendance/recruitment to WG-29. Suggestion from Harry to ensure to include next-gen targets. Intelrad, Visage, Highland/Hyland- Next-gen PACS vendors. Suggestion from Brian Bialecki to hold a one-day webinar on WG-6 101. Include DICOM handbook that Harry Solomon wrote.

Closed work items- added to the agenda- cancel work item add to next meeting written out.

Action for Carolyn Hull: get WIs to cancel from Bjoern and add to the minutes. Add in a table and create a form of why we are cancelling.

10. Other Working Group Reports-

1-Cardiology, meets with WG-12 Ultrasound: Outreach for WG-1/12 Chair; E.g reach out to ACC
2- Projection Radiography and Angiography:
3-Nuclear Medicine: Separate group working on list-mode format. Charles Smith **invitation. *MITA PET group. Connect Charles Smith with this group.
4- Compression: Verbal report, group is somewhat active.
5-Exchange Media:
6-Base Standard:
7-Radiotherapy:
8-Structured Reporting and Common Data Elements-
9-Ophthalmology: Looking at reactivating and heavily promoting DICOM.

10-Strategic Advisory: Will be meeting. Action: Do a report at the next DSC meeting on the DICOM 2040.
11-Display Function: No update, group has been dormant.
12-Ultrasound: See earlier.
13-Visible Light: Dormant.
14-Security: See written update
15-Mammography: See written update.
16-Magnetic Resonance: No update, group has been dormant.
17-3D: No update, group has been dormant.
18-Clinical Trials and Research: No update, group has been dormant.
19-Dermatology: Report
20-Imaging Integration (Joint group with HL7):
21-Computed Tomography: See written report.
22-Dentistry: See written report.
23-Artificial Intelligence/Application Hosting: Has been focused on Supplement 230.
24- Surgery: See written report.
25- Veterinary Medicine: Dormant.
26- Pathology: The group is active and working on a supplement.
27- Web Services for DICOM: Verbal report, has been working on supplements and CPs.
28-Physics: See 2/28.
29-Education, Communication, Outreach: No update, discuss coordination with SIIM. Meet more frequently. Use JIRA for ticketing; keep a list in JIRA of these items (invite to the meeting).
30-Small Animal Imaging: Dormant.
31-Conformance: Finished 209.
32-Neurophysiology:
33-Data Archive and Management: Looking at WG-33 supplement for use with AI
34-Photoacoustic Imaging:

11. **Old Business-**

12. **New Business –**

13. **Discuss DSC 2022/3 meeting schedule**

1. 2023 Spring in Brussels, Belgium at COCIR HQ:

a. Friday, March 31, 2022

ii. Confirmed: Fall in Chennai: late September, early October.

iii. Late fall: Nov 30, 2023 RSNA.

14. **Group Photo**

15. **Adjournment-** 5:00PM US Central Time.