

MINUTES

DICOM WG-23: Artificial Intelligence/Application Hosting

Date and Time: 22 September 2020 | 11:00am – 12:00pm US ET

Presiding Officers: Gianluca Paladini, Industry Co-Chair
 Lawrence Tarbox, User Co-Chair

DICOM Secretariat: Shayna Knazik, DICOM/MITA

Voting Members Present:

AAPM/Univ. of Arkansas for Medical Sciences
 ACR/Northwestern Memorial Hospital
 ACR
 Canon
 DesAcc EMEA
 DICOM/MITA
 NVIDIA
 PixelMed
 Siemens Healthineers
 VISUS

Represented by:

Lawrence Tarbox
 Brian Bialecki
 Neil Tenenholtz
 Kevin O’Donnell
 Graham King
 Shayna Knazik
 Brad Genereaux
 David Clunie
 Gianluca Paladini
 Marc Kämmerer

Voting Members Not Present:

*ACR
 *ACR
 *Argentix
 Arterys
 *Carl Zeiss Meditec
 *DaPict
 GE Healthcare
 *Hitachi Healthcare Americas
 *Laitek
 Medical Image Standards Association of Taiwan
 *NCI/NIH
 *Philips
 Sectra

Represented by:

James Philbin
 Steve Horii
 Elliot Silver
 Torin Taerum
 Régis Deshayes
 Steve Lord
 Chris Lindop
 Ravi Managuli
 Doug Sluis
 Chung-Yueh Lien
 Keyvan Farahani
 Jeroen Medema
 Daniel Forsberg

*Not present at two consecutive meetings and therefore not counted for quorum during this tcon

Others (Observers & Alt-voting) Present:

Blackford Analysis

Represented by:

Keith Houston, Observer

Leica Biosystems
MITA
Univ. of Arkansas for Medical Sciences
Univ. of Arkansas for Medical Sciences

Ian Gabriel, Observer
Zack Hornberger, Observer
Daniel Liu, Guest
Lori Wong, Guest

1. Opening

- 1.1. Welcome and roll call: the teleconference was called to order and a quorum was present.
- 1.2. Antitrust and patent rules were reviewed.
- 1.3. The agenda was reviewed and approved.
- 1.4. The minutes from 2020-09-08 were reviewed and approved.

2. XML conversion vs JSON

2.1. Links from Gianluca:

- <https://github.com/InsightSoftwareConsortium/DCMTK/blob/master/dcmsr/data/dsr2xml.xsd>
- https://github.com/PeterOpp/tid1500-fhir/tree/master/examples/rsna2018_dataset1
- <https://github.com/PeterOpp/tid1500-fhir>
- <https://support.dcmtdk.org/docs/dsr2xml.html>
- A lot of annotations used for AI training are not coming from DICOM SR, but rather created directly via annotation tools like this one: <http://www.itksnap.org/pmwiki/pmwiki.php>

2.1. **Next steps:** Larry to reach out to Teri Sippel re: RSNA AI Showcase vendors.

3. AI Service Discovery and Control – conversion of NWIP into a Supplement

- 3.1. Access to the documents via ACR teams was discussed. Anyone who needs to gain access that has not already been granted access is to contact Shayna. Copies of the document versions post meeting should be posted for the public to see the progress of the Work Item proposal.
- 3.2. A review of the edits to Part 19 was conducted. Brian and Keith suggest creating a whole new document as Part 19 is one mechanism by which the new information being added can be executed, while Kevin agrees with starting with a new document, the idea of posting new sections towards the end of the document was discussed. Editing the document in full and changing all the naming is not well supported and cross Part references would need to be searched and changed as well.
- 3.3. An initial attempt was made by Brian and Keith to explain the OAM concept to the group. Additional work on the document is needed prior to the next meeting for the group to move forward. Brian will work on this in the Teams site prior to the next meeting for further discussions.

4. Old or New Business: none at this time.

- 4.1. Update on IHE AI Whitepaper Proposal: More input is needed from the user side, so WG-23 is encouraged to get involved with the creation of the whitepaper once the proposal goes through the IHE approval process.
 - IHE Radiology technical committee (links and timelines):
https://wiki.ihe.net/index.php/Radiology_Technical_Committee
 - AI Interoperability in Imaging Detailed proposal link:
<https://docs.google.com/document/d/1SzcPtyaBFpZwTveebSjCC2Kuw934f9EOaKg7G1693kw/edit?usp=sharing>

5. Next meetings – tcons:

Every other Tuesday, usually 11am – 12pm US ET, unless schedule conflicts

- October 6th @ 11:00am-12:00pm US ET
- October 20th @ 11:00am-12:00pm US ET
- November 3rd @ 11:00am-12:00pm US ET

Next meetings – F2F: None scheduled at this time.

FYI: Other relevant [DICOM meetings](#)

- DICOM Standard Committee (DSC): [December 4, 2020 @ 9am-1pm US ET](#)
- WG-06 Base Standard: [November 9-13, 2020](#)

6. Adjournment: the call was adjourned at 12:06pm US ET.

Prepared and submitted by Shayna Knazik on 2020-10-06

Reviewed by Counsel Peter Tolsdorf 2020-10-07