

MINUTES

DICOM WG-23: Artificial Intelligence / Application Hosting

Date and Time: 25 August 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	Lawrence Tarbox
ACR/Northwestern Memorial Hospital	Brian Bialecki
ACR	Neil Tenenholtz
Canon	Kevin O'Donnell
DICOM/MITA	Shayna Knazik
GE Healthcare	Chris Lindop
Medical Image Standards Association of Taiwan	Chung-Yueh Lien
Sectra	Daniel Forsberg
Siemens Medical Solutions USA	Gianluca Paladini
VISUS	Marc Kämmerer

Voting Members Not Present:

*ACR	James Philbin
*ACR	Steve Horii
*Argentix	Elliot Silver
*Carl Zeiss Meditec	Régis Deshayes
*DaPict	Steve Lord
*DesAcc EMEA	Graham King
*Hitachi Healthcare Americas	Ravi Managuli
*Laitek	Doug Sluis
*NCI/NIH	Keyvan Farahani
*NVIDIA	Brad Genereux
*Philips	Jeroen Medema
*PixelMed	David Clunie

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

Others (Observers, Alt-voting, staff) Present:

Canon	Alan Pinder, Observer
GE Healthcare	Gopi Pattaswamy, Observer
IB Lab GmbH	Alexander Krumboeck, Observer
Leica Biosystems	Ian Gabriel, Observer

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: NEMA Antitrust and DICOM patent statement were reviewed.
- 1.3. Agenda review and approval: the agenda was reviewed and approved.
- 1.4. Approval of minutes from 2020-08-11: the minutes were reviewed and approved.

2. Supplement 219 Simplified SR in JSON: update from WG-20, 23 ,& 27 joint call on the August 19th

- 2.1. Chris provided a summary of the joint call for those who were not able to attend. The three WG's reviewed the status of Sup219 and the discussion focused on where to go next: using DICOMweb™ APIs, using FHIR resources and observations and business name distribution. The groups brainstormed how trial use could be coordinated and agreed to have WG-23 drive the adoption and prepare a proposal.
- 2.2. Gianluca proposed to: look at xml schema and convert it to a JSON schema and spending some time discussing which business names are truly needed, then revise Sup219 to eliminate unneeded business names and go with this new representation. We originally prioritized the simplicity of the JSON, so that discussion needs revisiting. Availability of tooling and prevalence in commonly-used toolkits.
 - XML schema:
<https://github.com/InsightSoftwareConsortium/DCMTK/blob/master/dcmsr/data/dsr2xml.xsd>
 - Prototype to convert DICOM SR to FHIR:
<https://github.com/PeterOpp/tid1500-fhir>
 - **Action:** Larry to invite David Clunie to the next WG-23 call
 - **Action:** WG members to look over this xml schema, keeping in mind there is another tool that will convert into JSON then FHIR object, and consider if this would be simple enough for the simplified SR without the need of using business names.
 - **Action:** Brian to reach out to ACR.
- 2.3. How do we get examples?
 - **Action:** Larry to reach out to Teri Sippel to see if we can reach out to the RSNA AI Showcase vendors.
 - **Action:** add DICOM-SEG to next agenda

3. AI Service Discovery and Control Ad Hoc Group:

- 3.1. Brian provided an update on the New Work Item Proposal (NWIP) that was presented and approved at the August 21st DICOM Standard Committee (DSC) meeting. The group discussed the next step for this NWIP and whitepaper, which is to morph the work into a Supplement. Brian plans to provide a brief overview of what that might look like, on the Sept 8th call.

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

5. Next meetings – tcons:

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

- September 8th @ 11:00am-12:00pm US ET
- September 22nd @ 11:00am-12:00pm US ET
- October 6th @ 11:00am-12:00pm US ET

Next meetings – F2F: None scheduled at this time.

FYI: Schedule of other relevant DICOM meetings

- *DICOM Standard Committee (DSC)*
 - [December 4, 2020 @ 9am-1pm US ET](#)
- *WG-06 Base Standard*
 - [August 31-September 4 @ 9am-6pm US ET](#)

6. Adjournment: the call was adjourned at 12:05pm US ET.

Prepared and submitted by Shayna Knazik

Reviewed by Counsel Peter Tolsdorf on 9/14/2020