

MINUTES - Tcon

DICOM WG 23: Artificial Intelligence / Application Hosting

Date and Time: 11:00am – 12:00pm US ET
5 May 2020

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
Canon	Kevin O'Donnell
DesAcc EMEA	Graham King
DICOM/MITA Staff	Shayna Knazik
GE Healthcare	Chris Lindop
Medical Image Standards Association of Taiwan	Chung-Yueh Lien
NCI/NIH	Keyvan Farahani
Sectra	Daniel Forsberg
VISUS	Marc Kaemmerer

Voting Members Not Present

ACR	James Philbin
ACR	Steve Horii
Argentix	Elliot Silver
Carl Zeiss Meditec	AG Regis Deshayes
DaPict	Steve Lord
Hitachi Healthcare Americas	Ravi Managuli
Laitek	Doug Sluis
NVIDIA	Brad Genereux
Philips	Jeroen Medema
PixelMed	David Clunie
Siemens Medical Solutions USA	Gianluca Paladini

Others Present

Harvard University	Andrey Fedorov, Observer
IB Lab GmbH	Alexander Krumboeck
NEMA/MITA Staff	Carolyn Hull, Alt. Voting
NEMA/MITA Staff	Zack Hornberger, Observer
Philips	Chris Melo, Observer

1. Opening

- 1.1. Welcome and roll call – The secretary identified participants.
- 1.2. Antitrust and patent rules review – Reviewed according to NEMA guidelines.
- 1.3. Agenda review and approval – The agenda was reviewed and approved.
- 1.4. Review and approval of minutes from 2020-04-21 and 2020-03-24 – The minutes were reviewed and approved.

2. AI Service Discovery and Control: report from WG-23 Ad Hoc

- 2.1. Brian Bialecki provided a brief status update on the work of the WG-23 Ad Hoc. The group has met several times to get a sense of the scope of a potential whitepaper. The first meeting minutes are approved and in the FTP folder. The group hopes to be finished with the use cases in the next few days, then plans to send them to the WG-23 mailing list by the end of this week. Brian noted to refer to the posted meeting minutes for a detailed list of the items being discussed by this group. Once the use cases are in, they will discuss whether this is a potential work item or white paper. The next Ad Hoc meeting is Tuesday, May 12, 2020 at 11:00AM EDT.
- 2.2. Notes from the group are in the FTP folder under 2020 in the AI Service and Discovery group folder.

3. Collaborative work on IHE Profiles: Two IHE Profiles are in development (by IHE) - see past WG-23 minutes for details

3.1. AI Results: Kevin O'Donnell, lead

- 3.1.1. This group is working through the Public Comment resolution in IHE Radiology. The comments were so numerous that the group had to schedule several follow-up teleconferences, but they are working steadily towards a Trial Implementation draft of the profile. Their tentative target is to have it ready for publication by the end of May. Since this is the Trial Implementation phase, others are being encouraged to test it. It was noted that the group utilized the RSNA Demo mailing list as one means of circulation. Once the profile is done with the testing phase, it will move on to the Final Text phase.
- 3.1.2. The group was encouraged to reach out to Kevin O'Donnell if there are any questions or comments about this profile. The group is waiting to hear if the 2020 Connectathon will be held to determine the final plans for testing. The Europe Connectathon is scheduled for November 2020.
- 3.1.3. Kevin has a list of almost a dozen DICOM CP's that have a missing piece related to this profile. There are one or two that could potentially come through WG-23 to ensure they have the problem well-scoped before it goes to WG-06.

3.2. AI Workflow: Chris Lindop, lead

- 3.2.1. Chris reported that their group is working through nearly 300 comments received. They are close to getting this profile out for Trial Implementation, then it will go to Final Text phase. There is a lot of detail-oriented work needed to get through the final comments, but the group is making progress.

4. Supplement 219 Simplified SR in JSON

- 4.1. **Currently frozen for trial implementation.** Larry reminded the group that much of their past discussion about this Supplement has revolved around venues for testing, like the RSNA Demo list. The goal is to try to implement the standards that the vendors are ready to implement. It was noted that in the AI Results work, a Sup219 payload was penciled in but they couldn't proceed because IHE doesn't write profiles on behalf of other organizations. Since it doesn't currently exist in DICOM, it would need to be created there first before an IHE Profile could be developed. From the demo standpoint, participants don't want to speculate so they are using existing DICOM and SR-representations for the time being. There's both the business names and the report itself in JSON that need to be reported. The group agreed that there is

still value for WG-23 and WG-27 to continue work on this item.

Action: Shayna to connect WG-20, 23, and 27 to schedule a joint call to discuss the potential inclusion of the Simplified SR JSON format into DICOMweb (in particular store and retrieve call), and how this might tie into HL7 FHIR.

5. **Outreach/Education/Info Sharing—see above**, note to add two IHE profiles and Supp 219 to the SIIM hackathon, as well as the RSNA demo.

6. **Old or New Business**

6.1. Gianluca suggested for WG-23 to review [DICOM Pt. 19](#). There was some discussion whether to leave this as-is or to review and possibly replace. Some members noted that a subgroup may be more appropriate, but there did not seem to be much interest either way.

Action: WG to review the report and start comments.

7. **Next meetings – F2F:** None scheduled at this time.

8. **Next meetings – tcons**

Teleconference (tcons) (Every other Tuesday, usually 11am – 12pm US ET, unless schedule conflicts)

Tuesday, June 2, 11:00AM ET Regular Tcon

Tuesday, June 16, 11:00AM ET

Action: Shayna to schedule the next call.

9. **Adjourn**

The meeting was adjourned at 12:05pm US ET.

Reviewed by Counsel Peter Tolsdorf on 7/2/20