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MINUTES

DICOM WG 23: Artificial Intelligence / Application Hosting

Secretary's note: One correction for attendance was made from the original posted version to this version, v2. No other edits where made.

Date and Time: **11:00am – 12:00pm US Eastern Time**
Tuesday 03 September 2019

Presiding Officers: Gianluca Paladini, Industry Co-Chair
Lawrence Tarbox, User Co-Chair
DICOM Secretariat Lisa Spellman, DICOM General Secretary MITA

Voting Members Present	**Represented by**
ACR	Jim Philbin
Canon Medical Systems	Kevin O'Donnell
GE	Chris Lindop
Siemens Medical Solutions	Gianluca Paladini
Univ. Arkansas for Med. Sciences	Lawrence Tarbox

Voting Members Absent	**Represented by**
Agfa Healthcare	Hamid Neshat
Change Healthcare	Elliot Silver
Isomics	Steve Pieper
PixelMed	David Clunie
Laitek	Bogdan Petrovanyes

Alternative Voting Representatives, Observers, and Other Present	
Ambra Health	Kevin Archie
DICOM Secretariat	Lisa Spellman, MITA, Luiza Kowalczyk, MITA
Laitek	Razvan Costea-Barlutiu
Nuance	Sander Kloet
Nuance	Sridhar Balasubramanian
Philips Healthcare	Chris Melo
VISUS	Marc Kaemmerer
Vital/Canon	Jonathan Whitby

1. **Opening**
   1.1. Welcome and roll call.
   1.2. Antitrust and patent rules review
   1.3. Agenda review and approval.
   1.4. Minutes from 20 August 2019 were approved with no changes.

2. **Use Case 1 & 2 status update review & discussion**

Use Case 1: WG-20/HL7 Passing Discrete Data in the Image Generation Workflow

UC1 Lead: Neil Teneholtz, Chris Lindop

Use Case 2: Passing Discrete Data in the Reading Workflow

UC2 Lead: Steve Pieper

- Status update

There was an update given regarding proposals submitted to IHE Radiology Planning Committee
Kevin O'Donnell and Chris Lindop both provided a general update regarding the AI-related proposals they submitted

- Kevin submitted an IHE Profile Proposal for JSON and provided a general update on the next steps
  - AI Results - Brief Proposal
- Chris Lindop also submitted a proposal: There was a discussion of what Chris submitted and if it is a best fit for UC1 or UC2
  - Proposed Work Item: Image Based AI Workflow
- Discussion included the importance of continued collaboration and experts participating on both IHE RAD and DICOM since there is some work that makes more sense for DICOM to do and some work that should take place in IHE
- Discussion of the importance of both DICOM and IHE working on these issues
- Both IHE and DICOM working on report reading needs from end-user (e.g., clinical) perspective
- WG-23 should continue to support JSON SR Supplement
- IHE good at focusing on workflows, gaps and so on.
- It was noted that we also want AAPM REC and ACR Data Science Institute (DSI) contributing as well
- It was noted that while there are only two use cases that have been put forward as a project in WG-23, there are many more that WG-23 could investigate and Gianluca has talked about many of them. For example, another was how to properly gather learning data sets?
- DICOM members are encouraged to review the submissions (link to all proposals below) and send comments or join one of the IHE RAD Planning Committee when the proposals will be reviewed
- About joining IHE calls: It was noted that these are open meetings with all welcome to attend, noting that IHE would like people to become members if they choose to attend more than one call. Similar to DICOM, guests cannot vote on calls but can listen and share relevant feedback.

Next Steps

- If you have comments, please contact Kevin O'Donnell (KOdonnell@mru.medical.canon) or Chris Lindop (lindop.chris@gmail.com) (or send to Lisa (lspellman@dicomstandard.org) and she can forward)
- **Deadline:** Kevin and Chris need any feedback by **Thur 5 Sept end -of-day (US ET time)** (please note that this was also discussed on the August WG-23 call and a link provided) because of IHE deadlines.
- Please see these and other submitted proposals at: https://wiki.ihe.net/index.php/Radiology_Proposals_2019-2020

3. AI-JSON update (Kevin, David)

- David reviewed on the 23 July tcon and Kevin gave a brief update today.
- Kevin showed results catalog which members have had access to via mentions in previous meetings
- Bogdan reviewed the measurements-Detect Pneumoperitoneum tab
- Lawrence noted that these excel sheets contain very useful information – asked where it would live after the process over? Could be either informative or normative. Note: There was no answer – this needs to be discussed again on next call to ensure this helpful info is retained.
- Andrew Wilson noted that Andy Smout looking at specific tabs as well and will be completing his feedback before the Mon 9 Sept WG-06 tcon.

Next Steps:

- The first read for this document will be Monday 9 September 2019, 1530-1630 at WG-06 meeting
- Public Comment (PC): Targeting November 2019 for Public Comment
- Link to access document: ftp://d9-workgrps:Private15@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG23/Supnnn_SimpleSRInJSON/
- Link to access WG-06 tcon info: http://workspaces.nema.org/dicom/Lists/Calendar/DispForm.aspx?ID=3189&Source=http%3A%2F%2Fworkspaces%2Enema%2Eorg%2Fdicom%2FLists%2FCalendar%2Fcalendar%2Easpx

4. Potential for F2F meetings in 2019

4.1 C-MIMI 2019: Reminder that WG-23 will not meet at C-MIMI19 but we do encourage people to attend and share their feedback about the meeting https://siim.org/page/2019cmimi, 22-23 Sept 2019,

4.2 Possible joint meeting with WG-27 at RSNA19

- WG-27 might meet on 2019-12-04, 9:00-17:00 local, 10:00-18:00 US ET. If they decide to meet, they would like to meet jointly with WG-23 for 2-3 hours to discuss topics of common interested to include JSON, use case development and other topics.
- Next steps: WG-27's next tcon is 5 Sept – they will decide at that time and let us know.

5. ACR update (Chris Treml)

- There was no update given today.

6. Old or New Business

- No old or new business was presented.

7. Next meetings

Teleconference (tcons) (Every other Tuesday, usually 11am – 12pm US ET, unless schedule conflicts)
Tuesday 17 September, 12:30-1:30pm US ET: https://global.gotomeeting.com/join/760930557
Tuesday 1 October: Lawrence, Lisa, Kevin & others in Bangkok – Cancel
Tuesday 15 October 2019, 11am-12pm US ET
Tuesday 29 October 2019, 11am-12pm US ET
Tuesday 12 November 2019, 11am-12pm US ET
Tuesday 26 November 2019, 11am-12pmUS ET

8. Adjournment

The call adjourned at 11:56am US ET. Report prepared by Lisa Spellman, DICOM General Secretary. Report reviewed by MITA/NEMA General Counsel. Clark Silcox, September 3, 2019.