

## MINUTES

### DICOM WG 23: Artificial Intelligence / Application Hosting

**Date and Time:** 11:00am – 12:00pm US ET  
Tuesday 07 January 2020

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

**DICOM Secretariat** Lisa Spellman, DICOM General Secretary MITA

#### **Voting Members Present**

ACR  
GE Healthcare  
Hitachi Healthcare  
NVIDIA  
PixelMed  
RSNA  
Siemens Medical Solutions  
Univ. Arkansas for Med. Sciences  
VISUS Health IT GmbH  
Vital Images/Canon

#### **Represented by**

Brian Bialecki  
Chris Lindop  
Ravi Managuli  
Brad Genereaux  
David Clunie  
Chris Carr  
Gianluca Paladini  
Lawrence Tarbox  
Marc Kammerer  
Jonathan Whitby

#### **Voting Members Absent**

Agfa Healthcare  
Carl Zeiss Meditec AG  
Change Healthcare  
Canon Medical Systems  
Clario Medical Imaging  
DaPict  
Laitek  
MISAT  
Philips  
Varian Medical Systems

#### **Represented by**

Hamid Neshat  
Regis Deshayes  
TBD  
Kevin O'Donnell  
Chris Wood  
Steve Lord  
Bogdan Petrovanyes  
Chung-Yueh Lein  
Jeroen Medema  
Thomas Schwere

#### **Alternate Voting Representatives, Observers, and Guests**

Blackford Analysis  
German Cancer Research Center (DKFZ)  
Harvard University  
Isomics  
Nuance  
Roche Tissue Diagnostics

Keith Houston  
Marco Nolden  
Andrey Fedorov  
Steve Pieper  
Sridhar Balasubram  
Uwe Horcher

## 1. Opening

- 1.1. Welcome and roll call.
- 1.2. Antitrust and patent rules review
- 1.3. Agenda review and approval.
- 1.4. Review and approval of minutes from 2019-12-10

## 2. Supplement 219 Simplified SR in JSON

- Public comments closed 12/23/19.
- Status update from David on received comments.
- Motion to recommend moving Sup 219 for a trial use phase before it goes out for balloting (LB). The usual order is: Public Comment, Letter Ballot and Final Text. However, in this case, WG-23 is recommending doing a trial phase up to 12 months.
- Motion approved: 14 participants on the call, 14-0-0
- WG-06 Base Standard will make a final decision at the next week's face to face meeting during the Public Comment review.
- Still couple of open issues. Think of open issues until the end of the week.
- No feedback on a patient name
- Make sure Japanese folks have a chance to provide some feedback on the patient name.
- Make a comparison with/against FHIR
- Lots of closed issues. David's resolution sheet

**Meeting folder:** <ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG23/2020/2020-01-07/>

Please go to the following folder on the ftp server in the WG-23 directory to access the following folders and documents:

[ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG23/Sup219\\_SimpleSRInJSON](ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG23/Sup219_SimpleSRInJSON)

- Comments
- Sup219\_pc\_CommentResolution\_20200101.xlsx

### **ACTION ITEM:**

1. Review David's resolution sheet and give him feedback by the end of this week so he could have enough time to work any received feedback.

### **SECRETARY NOTE:**

- Sup 219 is scheduled on the January WG-06 Agenda.
  - o Q1- Monday, January 13, 2020, 13:30-15:30 US ET.
  - o Q4- Wednesday, January 15, 2020, 15:30-17:30 US ET
- Anyone can dial in and join WG-06 mtg remotely for this review.
- Dial-in info: <http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx>
- WG-06 January Agenda is posted on the ftp server in the WG-06 directory:  
<ftp://medical.nema.org/medical/Private/Dicom/WORKGRPS/Wg06/2020/2020-01-13/>

## 3. Collaborative work on IHE Profiles

- Two IHE Profiles were approved and are in development. (Please see past WG-23 minutes for details)
- **AI Workflow:** Chris Lindop, lead | **AI Results:** Kevin O'Donnell, lead
- Kevin & Chris plan to attend WG-23 to collaborate on the profile development.
- **Reminder: Key upcoming IHE milestones/dates**
  - o Jan 27-30, 2020, F2F, will be line-by-line, followed by public comment. WG-23 invited to participate in the IHE January 2020 meetings as well.

**AI Workflow:** Chris Lindop

- On the 2019-12-11 tcon, Chris provided a brief update of current work and wished to gather feedback minimum AI service request attributes. Continue review and discussion,
- Chris gave an update on his PPT presentation.
- Unique identifier on Service Performer
- Make an update to DICOM UPS to include FHIR , what resources? Diagnostic report or observations. Include those in the standard. Talking about HL7 push model
- We stopped reviewing the PPT on the slide #7 “Image Document Receipt”.
- Chris’s PPT is uploaded in today’s WG-23 meeting folder: IHE AIW-I Tech summary WG23 01-07-2020.pptx, **but an updated version will be posted by Chris within the next couple of days.**

**ACTION ITEMS:**

1. Update the AI Workflow slides after today’s call-Chris Lindop
2. Review Chris’s slides and give him any necessary feedback- Members of WG-23
3. Create DICOM CP to include FHIR endpoints in UPS – Chris Lindop

- **IHE call on the January 15<sup>th</sup> – Please see the table below #8.**

- **Dial in for the IHE RAD Tech – AI Workflow: Tuesday 28 January 2020, 11am-12pm US ET**  
<https://global.gotomeeting.com/join/776500381>

The dial-info has been entered in the DICOM Calendar:

<http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx>

**AI Results:** Kevin O’Donnell, - No Kevin on today’s call. His part was not discussed.

- Status update

**4. STOW-RS type transaction – NOT DISCUSSED DURING TODAY’S CALL**

- **IHE request:** IHE asked WG-23 to explore a new STOW-RS type transaction for stating new JSON payload. WG-23 will likely need to collaborate with WG-27 on this.
- On the 2019-12-11 tcon, the WG agreed on the need to draft a white paper. David and Lawrence can help, but a lead author is needed to create the first working draft.

**5. Outreach/Education/Info Sharing – NOT DISCUSSED DURING TODAY’S CALL**

- Status update: How to get started with DICOM and AI. Brad G lead.

**6. Old or New Business**

**7. Next meetings-F2F:** None scheduled at this times.

**8. Next meetings – tcons**

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

**Next t-con: Tuesday, February 7, 2020, 11:00-12:00 US ET**

**Note:** Instead of meeting two weeks later per the usual schedule, the WG agreed instead to try to join the IHE calls as listed below for AI Result and AI Workflow. WG-23 will then meet on **2020-01-28** at the usual time, 11am-12pmUS ET – call info below the IHE table.

**IHE RAD Tech Dec & Jan tcons below**

2019-12-16	10:00 am - 12:00pm CT	Tcon	IHE Rad Tech - AI Result	<a href="#">Agenda</a>	<a href="#">Minutes</a>
2019-12-18	10:00 am - 12:00pm CT	Tcon	IHE Rad Tech - AI Workflow	<a href="#">Agenda</a>	<a href="#">Minutes</a>
2020-01-10	10:00 am - 12:00pm CT	Tcon	IHE Rad Tech - AI Result	<a href="#">Agenda</a>	<a href="#">Minutes</a>
<b>2020-01-15</b>	<b>10:00 am - 12:00pm CT</b>	<b>Tcon</b>	<b>IHE Rad Tech - AI Workflow</b>	<b><a href="#">Agenda</a></b>	<b><a href="#">Minutes</a></b>

2020-01-27-30	All Day	Meeting	IHE Rad Tech Mtg: Preparation for Trial Implementation Publication	<a href="#">Agenda</a>	<a href="#">Minutes</a>
2020-04-20-23	All Day	Meeting	IHE Rad Tech Mtg: Preparation for Trial Implementation Publication	<a href="#">Agenda</a>	<a href="#">Minutes</a>

**9. Adjourned at 12:10 pm US ET**

Reviewed by Luiza Kowalczyk, DICOM Secretariat

Reviewed by Clark Silcox, Legal Counsel: Clark Silcox, January 8, 2020.