

MINUTES

DICOM WORKING GROUP FOUR (Compression)

Date and time: Wednesday, February 3, 2021
10:00-11:00am US ET

Presiding Officer: David Clunie, Chair

Secretariat: Shayna Knazik, DICOM/MITA

Voting Members Present

Agfa US Corp	Bill Wallace
Carl Zeiss Meditec AG	Régis Deshayes
DICOM/MITA	Shayna Knazik
GE Healthcare	Yongjian Bao
PixelMed	David Clunie
Philips	René van der Vleuten, Alt. Voting

Voting Members Not Present

*AetherAI	Pei-Chen Lin
*Corista, LLC	Eric Wirch
*DesAcc EMEA Ltd	Graham King
*Korean PACS Standards Committee	Hee-Joung Kim
*Neagen	Rami Hietala
Philips	Nick Haarselhorst
*Sectra Imaging IT Solutions AB	Erik Edespong
*University of Warwick	Victor Sanchez

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

Others (Observers, Alt-voting, staff) Present

AAPM/Univ. of Arkansas for Medical Sciences	Lawrence Tarbox, Observer
Cloudinary	Jon Sneyers, Observer
DesAcc EMEA Ltd.	Konstantinos Alexopoulos, Observer

Mathieu Malaterre Consulting
Roche Tissue Diagnostics

Mathieu Malaterre, Observer
Uwe Horchner, Observer

Amazon Web Services
Siemens Healthineers

Chris Hafey, Observer
Chris O'Donnell, Observer

1. Administrative

- Welcome and roll call: the teleconference was called to order and a quorum was present.
- DICOM antitrust and patent rules: reviewed.
- Agenda: reviewed and approved.
- Approval of minutes from 2020-01-06: reviewed and approved.

2. White paper on progressive images (Chris Hafey)

- Chris Hafey asked for feedback on an outline of his document entitled "Progressive Resolution access in medical imaging" which can be accessed here:
<https://docs.google.com/document/d/1hMv75h8g5a8EvlopucdhEIKdu7QGF1PgpAK4J1Ahvp4/edit?usp=sharing>
- He highlighted the following sections:
 - Industry trends and increasing use cases
 - Web-based medical imaging challenges
 - DICOM-compatibility
 - Patents
 - Adoption
 - JPEG-XL (Jon Sneyers)

3. Large video transfer syntax (Bill Wallace)

- Bill Wallace presented his New Work Item Proposal to:
 - Allow multiple fragments within a single DICOM video instance splitting up the video into multiple pieces, all logically continuous, but encoded as fragments each less than 1 gb.
 - David argued that it can already be done across multiple instances, and presented some history on this
 - Bill argued that serving multiple instances in DICOMweb or other single-instance responses would require recombining the multiple instances into one, which is difficult to do without re-writing the entire file, and that can introduce very long (minutes+) delays, or hiccups into the playback.
- David noted that WG-13 needs to be looped in to ensure the proper inclusion of video codecs.
 - **Action:** Shayna to research and send Bill a list of people who worked on compression in WG-13.
- We will begin with this item on the next teleconference.

4. Discuss image/jpeg media type limits: not discussed, moved to next tcon agenda.

5. Upcoming calls

- WG-04 holds monthly calls on the first Wednesday of each month from 10-11am US ET. The next WG-04 call will take place on:
 - March 3, 2021

6. Adjournment: the call was adjourned at 11:02am US ET.

Prepared and submitted by Shayna Knazik

Reviewed by Counsel 3/8/2021