

## **MINUTES**

### **DICOM WORKING GROUP FOUR (Compression)**

**Date and time:** Wednesday, August 7, 2024  
10:30-11:30am US Eastern

**Presiding Officer:** David Clunie, Chair

**Secretariat:** Emily Hoefler, NEMA/MITA

#### **Voting Members Present**

NEMA/MITA	Emily Hoefler
Philips	René van der Vleuten
PixelMed	David Clunie
Radical Imaging	Bill Wallace

#### **Voting Members Not Present**

*aetherAI	Pei-Chen Lin
AWS	Chris Hafey
*Carl Zeiss Meditec	Detlev Hohmeier
*Fairhaven Technology	Rob Horn
*Korean PACS Standards Committee	Hee-Joung Kim

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

#### **Others Present:**

AAPM/Univ. of Arkansas for Medical Sciences	Lawrence Tarbox
Leica Biosystems	Christopher Maisano
Leica Biosystems	Ty Usrey
NEMA/MITA	Shayna Knazik

#### **1. Administrative**

- The meeting was called to order at 9:01am Eastern.
- Staff reminded members of the Guidelines for Conducting NEMA Meetings and DICOM Patent Disclosure Policy: <https://www.dicomstandard.org/patent>
- The agenda was reviewed and approved.

- The minutes from April 3, 2024 were reviewed and approved.

## 2. Supplement 232: JPEG-XL Transfer Syntax (Bill Wallace)

- Supplement 232 was circulated for Letter Ballot on June 14, 2024 and closed on July 19, 2024. Bill Wallace received all Letter Ballot comments and incorporated them into the Supplement.
- There were no concerns from the group prior to the next review by WG-06 at their August 19-23, 2024 meeting where the Supplement will be reviewed for Final Text approval.

## 3. Supplement 244: Frame Deflate Transfer Syntax (David Clunie)

- Supplement 244 was circulated for Public Comments, which closed on May 22, 2024. David Clunie incorporated Public Comments received.
- WG-06 and WG-04 will consider a trial implementation phase prior to Final Text approval.

## 4. Updating reference compressed DICOM images for the FTP server

- On the last WG-04 call in April, the group discussed the need to update the reference compressed DICOM images that are currently on the FTP server. This can be tackled by taking the existing images and recompress them into transfer syntaxes which are not currently included on the FTP; and/or get new, large multi-frame or multi-sliced images to confirm that the codec is built correctly.
- This item needs some volunteers to do this work, and the group needs to select which transfer syntaxes to include. **Action item:** Emily will add this to the next agenda.

## 5. Old/New Business

- Standing items for consideration of other non-image specific compression schemes:
  1. LZ4
  2. Bzip2
  3. LZMA
  4. BROTLI
  5. **Pending action:** Bill and David will work to define the use cases including floating point data for RTSS, bulk microscopy annotations, and Pathology ICC, and gather data sets for experiments.
- Audio compression schemes: operative notes, etc.
- <https://jpegxl.info/>
- <https://github.com/dicom-codecs/dicom-codecs>
- 16 bits allocated / 8 bits stored color images
- Secondary Capture

## 6. Upcoming calls

- WG-04 holds monthly calls on the first Wednesday of each month from 10:30-11:30am US Eastern. The next call scheduled for September 4, 2024, which conflicts with the last

day of the DICOM Standard Committee meeting, so the group agreed to cancel the September call. The next call will take place on October 2, 2024.

## **7. Adjournment**

- The call was adjourned early at 11:00am ET.