

## **MINUTES**

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

**Date and time:** Wednesday, September 27, 2023  
10:00-11:00am US Eastern

**Presiding Officer:** David Clunie, Chair

**Secretariat:** Shayna Knazik, DICOM/MITA

#### **Voting Members Present**

AWS	Chris Hafey
DICOM/MITA	Shayna Knazik
PixelMed	David Clunie
Philips	René van der Vleuten
Radical Imaging	Bill Wallace

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

*aetherAI	Pei-Chen Lin
*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 (Observers, Alt-voting, staff) Present**

AAPM/Univ. of Arkansas for Medical Sciences	Lawrence Tarbox
Roche Tissue Diagnostics	Uwe Horchner

#### **1. Administrative**

- The meeting was called to order and a quorum was present.
- 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 September 6, 2023 were reviewed and approved.

## 2. New Work Item Proposal on Frame Level Segmentation Compression (David Clunie)

- David Clunie shared a New Work Item Proposal (NWIP) which proposes a new Transfer Syntax that will use Deflate algorithm already present in the Standard. However, this will be applied to individual encapsulated frames which will allow them to be stored, indexed, and requested in that form using the single frame retrieval DIMSE and DICOMweb services.
- The group asked questions and provided some feedback. David has submitted this NWIP to the DICOM Standard Committee for their upcoming meeting in October. He will report back to the group on the next call and Shayna will keep this on the agenda as a standing item.

## 3. Consider an Informative Annex for Part 17 related to compression and performance in web services especially metadata

- The group discussed this item from Bill Wallace. **Action Item:** Bill will draft a CP and discuss its content with WG-27, and will bring the CP back to WG-04 if there are any questions.

## 4. Consideration of other non-image specific compression schemes: this item was not discussed

- LZ4
- Bzip2
- LZMA
- BROTLI
- **Action item:** 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.

## 5. Old/New Business

- **Ready for the next agenda:** Supplement 232: JPEG-XL Transfer Syntax (Bill Wallace)
- Supplement 235: HTJ2K Transfer Syntax (Bill Wallace & Chris Hafey): Sup235 will be presented to WG-06 at their November meeting in preparation for Final Text.

## 6. Upcoming calls

- WG-04 holds monthly calls on the first Wednesday of each month from 10-11am US Eastern. The next WG-04 call would fall on November 1, 2023 but there is a conflict with that date. The group decided to cancel the November call and meet again on the next regularly scheduled call: December 6, 2023.

## 7. Adjournment

- The call was adjourned at 10:46am US EDT.