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MINUTES

DICOM WORKING GROUP FOUR (Compression)

Date and time: Wednesday, October 2, 2024
10:30-11:30am US Eastern

Presiding Officer: David Clunie, Chair

Secretariat: Emily Hoefer, NEMA/MITA

Voting Members Present

NEMA/MITA	Emily Hoefer
Philips	René van der Vleuten
PixelMed	David Clunie

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
Radical Imaging	Bill Wallace

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

Others Present:

Leica Biosystems	Ty Usrey
NEMA/MITA	Shayna Knazik

1. **Administrative**
   - The meeting was called to order at 10:31am 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 August 7, 2024 were reviewed. There was not quorum to approve these minutes so they will be reviewed for approval at a future meeting

2. **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.
    - David reiterated the consideration for a trial implementation.
    - No action at this time.

3. **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.

4. **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

5. **Upcoming calls**
    - WG-04 holds monthly calls on the first Wednesday of each month from 10:30-11:30am US Eastern. It was agreed to cancel the November meeting. The next call will take place on December 11, 2024.

6. **Adjournment**
    - The call was adjourned early at 10:42am ET.