

**Minutes**

**MEETING NAME** WG-34 Photoacoustics Inaugural Teleconference

**MEETING PLACE/DIAL IN** [https://www.gotomeet.me/Carolyn\\_Hull](https://www.gotomeet.me/Carolyn_Hull)

**DATE & TIME** Thursday, November 19, 2020, 11:00AM ET

**PRESIDING OFFICERS** Company      Person's Name, Position (Chair and/or Vice chair)  
 To be decided by next meeting

**VOTING MEMBERS PRESENT**

iThera	Stefan Morscher
ACR	Brian Bialecki
Seno Medical Instruments	Allison Bertrand, Alt-Voting

**VOTING MEMBERS ABSENT**

University of Cambridge	Sarah Bohndiek
Seno Medical Instruments, Inc.	Bryan Clingman
Carl Zeiss Meditec AG	Stefanie Freitag
SuperSonic Imagine	Damien Lerat
GE Healthcare	Steven Nichols

**OTHERS** PixelMed      David Clunie

**DICOM SECRETARIAT** Joint: SPIE/IPASC  
 Amanda Kalkwarf, SPIE, Secretariat  
 Carolyn Hull, DICOM General Secretary

## 1. OPENING ITEMS

- **Call to order:** The meeting was called to order. Staff recorded attendance and confirmed that a quorum was present.
- **NEMA Antitrust rules and DICOM Patent Policy:** Staff reviewed the Guidelines for Conducting NEMA Meetings and patent policy.

## 2. REVIEW AND APPROVE AGENDA

The agenda was reviewed.

## 3. REVIEW MINUTES--NA

## 4. TOPIC ITEMS TO BE DISCUSSED

- Chair Election- Will close Nov. 23.
- Reminder:
- Discussion of the work item-

Discuss raw data policies and IODs for other modalities- move to next time (keep on the agenda).

Q for David Clunie: Should we do a gap analysis on Ultrasound IODs? Group can do whatever it wants and ensure have backup.

Brian Q: Feasible to move forward with two IODs? Raw and for presentation.

If raw data, can reuse the raw data object (proprietary per-vendor), polar ultrasound data- name it that. Call them different SOP classes and IODs.

Allow two possibilities: components and renders (different types of IODs for both). Could share the metadata. Do not get too entrenched in one way of doing things. Get preliminary feedback from WG-6 by doing a first read with some question.

The group can go forward incrementally-can do IODs one by one. The work does not need to be entirely completed at once. Can be a relatively simple translation. Depending on side of image, ultrasound lives in its own world re: compression. Define an architecture early.

- Review of draft supplement and ultrasound IOD (Allison Bertrand)-

May use what exists from the 3D Ultrasound object. Refer to EXIF table.

One possibility is to use one IOD with subtypes. Down side is receiving viewer must be able to view. Not usually an issue. Discussion of "fusing" two channels together. For viewing, could treat one as rendered and one as traditional. "Fused" IOD could be a good term.

Q: What about 2D? Whether use this IOD? D: Would not use 2D ultrasound. Key question is whether you keep the data from the light channel? Photoacoustic is term for data acquired. Ultrasound is not included in this term.

Want to have “ultrasound” data in one object, and photoacoustic in the other object. Suggestion that this could be a good starting point.

The group could use ultrasound but would need to choose which to add and remove some of them. They could also add more information into existing ultrasound objects if wanted to do this.

One member expressed preference for creating a multiframe object that serves photoacoustic and can also store ultrasound. Most will have both ultrasound and photoacoustic. Though have data acquired for ultrasound, but not useful in its own right.

**Coordinate with WG-12 at some point (note: Carolyn is Secretary for this group, so can contact them when ready or email their listserv: [wg12@lists.nema.org](mailto:wg12@lists.nema.org)).** The 3D ultrasound (object) has complexity that is not necessary. Will be good to have own version of this. Another helpful item is :multichannel ultrasound state. This may be located in some WG-12 meetings minutes.

**Action:** Brian Bialecki to look through WG-12 meeting notes for older supplements and information on this.

**Action for all group:** Continuing to review the draft Allison Bertrand has open for now ([In FTP server at: MEDICAL/Private/Dicom/WORKGRPS/WG34/2020-11-19](#)) –Photoacoustic standard draft.

5. Reminder of DICOM resources:

#### **FTP Server for exchange of documents**

**Email listserv for discussion (must be on the list to post):** [wg34@lists.nema.org](mailto:wg34@lists.nema.org)

Discussion guidelines: Use for directly related technical information, and avoid antitrust topics and discussion of patented technology (known patents must be disclosed)

#### **Meeting Minutes**

Will be circulated online and posted under WG-34 page here:

<https://www.dicomstandard.org/wgs>

Approved

New members please fill this out: <https://www.dicomstandard.org/participate> All are welcome. Voting members of this group are required to sign an organizational patent form (unless an individual, e.g. a student). Those wishing to join as a member of the DICOM Standard Committee to have input on DICOM’s priorities may inquire at the participate form.

6. OLD BUSINESS/NEW BUSINESS

7. DATE AND TIME OF NEXT MEETING

Thursday, December 17, 11:00AM ET (need to set up)

Submitted by: Carolyn Hull, 12/4/2020 (updated 12/16/20)

Reviewed by Counsel 12/27/2020

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