

MINUTES

MEETING NAME WG-32

MEETING PLACE/DIAL IN Via Zoom

DATE & TIME Thursday 18 December 2024
 10:00– 11:00 AM Eastern Daylight Time (EDT)

PRESIDING OFFICERS Jonathan J. Halford,
 Ralph H. Johnson VA Medical Center (Charleston, SC)
 User Co-Chair
 Andrew Ehrenberg, Nihon Kohden Corporation,
 Vendor Co-Chair

IFCN SECRETARIAT Kim Zaiss

DICOM SECRETARIAT Shayna Knazik

Present	First Name	Last Name	Organization	Voting Status
	Emmanuel	Cordonnier	b<>com	Voting
	Kevin	O'Donnell	Canon Medical Research USA, Inc.	Voting
	Felix	Rosenow M.D.	DGKN (German Society of Clinical Neurophysiology and Functional Imaging)	Voting
	Jan	Remi	Ludwig-Maximilians-University of Munich	Voting
X	Ben	Brinkmann	Mayo Clinic	Voting
x	Jonathan	Halford	Medical University of South Carolina	Voting
x	Andrew	Ehrenberg	Nihon Kohden Corporation	Voting
	Alan	Huang	Philips	Voting
	Wim	Corbijn van Willenswaard	Philips	Alt. Voting
	Justin	Dauwels	TU Delft	Voting
	Jeroen	Medema	Philips	Alt. Voting
x	Raymond	Kraskinski	Philips	Observer
	David	Clunie	PixelMed Publishing	Voting
x	Silvia	Winkler	Sigma Software Solutions	Voting
	Ana	Alves	CortexXus Inc.	Observer
x	Giuseppe	Campobello	University of Messina	Observer
	David	Alves	CortexXus Inc.	Observer
	Babak	Razavi	CortexXus Inc.	Observer
	Matt	Stead	Dark Horse Neuro, Inc.	Observer
	Andrea	Bigazzi	EB Neuro	Observer
	Gritsch	Gerhard	AIT Austrian Institute of Technology GmbH	Observer
	Mateo	Pratesi	EB Neuro	Observer

	Ignacio Ramírez	Paulino	Facultad de Ingeniería - Universidad de la República	Observer
	Sandor	Benizcky	Filadelfia	Observer
	Steve	Nichols	GE Healthcare	Observer
	Gardar	Thorvardsson	Kvikna / Stratus EEG	Observer
	Richard	Moberg	Moberg Research, Inc.	Observer
	Desire	Jean		Observer
	Casey	Stengel	Neuralynx	Observer
	Bill	Antilla	Nihon Kohden Corporation	Observer
	Ryuzo	Mase	Nihon Kohden Corporation	Observer
X	Koichiro	Matsumoto	Nihon Kohden Corporation	Observer
	Pedro Fernando	Arizpe Gomez	OFFIS e. V.	Observer
	Daniel	Crepeau	Dark Horse Neuro	Observer
	Andrey	Pirozhenko	Persyst	Observer
x	Shane	Ponzikoff	Persyst	Observer
	Wouter	Potters	Amsterdam UMC, Netherlands	Observer
	Stefan	Rampp	University Klinikum Erlangen	Observer
	Dagmar	Krefting	University Medical Center Göttingen	Observer
	Marco	Rossi	University of Milan, Italy	Observer
	Gloria	Menegaz	University of Verona, Italy	Observer
	Matan	Oppenheim	Zebra Medical Vision	Observer
x	Jonathan	Pfaff	Fraunhofer Heinrich Hertz Institute HHI	Observer
x	Gary	Sullivan	ITU-Rapporteur	Observer
X	Kristian	Bernard Nilsen	Oslo University Hospital	Observer
X	NS	Nagarajan	GE Healthcare	Observer
	Bruno	Monnerat		Observer

1. CALL TO ORDER AND REVIEW OF ANTI-TRUST RULES AND DICOM PATENT POLICY

The meeting was called to order at 10:00 AM EDT. Participants were reminded that the Guidelines for Conducting NEMA Meetings and Patent Disclosure Policy are in effect and they may be found here: <https://www.dicomstandard.org/patent>.

2. WELCOME/ATTENDANCE/INTRODUCTION

Attendance was taken.

3. REVIEW AND APPROVE AGENDA

The agenda was reviewed, motion to approve by JH and seconded by SW.

4. REVIEW MINUTES

The minutes of the 21 Nov 2024 meeting were reviewed, motion to approve by JH and seconded by SP.

5. OLD BUSINESS

- **Supplement 236 (Presentation State for montage and visualization filters).** Silvia Winkler (SW) reported that there was no news about this Supplement. This Supplement will become final after the WG-06 meeting in early January 2025.
- **International Telecommunication Union Standardization Sector (ITU-T) Call for Proposals (CfP) for Biomedical Waveform Coding**
 - Gary Sullivan (GS) reported that VCEG decided on a starting basis for the codec in November and the software design for this is underway. GS reported that an initial draft spec software of the codec should be available in January 2025. Benjamin Brinkmann (BB) had proposed using certain intracranial and scalp EEG data from Temple University and Jonathan Pfaff (JP) reported that he was looking into using this data. Jonathan Halford (JH) reported the Martijn Tannemmat was still waiting for regulatory approval before he could provide needle EMG data for the project. JP reported the ITU VCEG would provide codec reference software for anyone to test in January 2024. GS reported that ITU-T had been using the CHB-MIT EEG dataset for testing. JP reported that they wanted to use the Temple University dataset, but some companies had a problem with the licensing which stated that the data should not be modified and redistributed (which would be a problem if the data was compressed and shared). BB suggested that a letter of permission from the data owners at Temple might be used to overcome this and offered to reach out to Temple staff about this. Andrew Ehrenberg stated that Temple had recently changed its process for giving access to data such that a request was necessary before data access was granted, and this might help since we could specify how we wanted to use the data in our request.
- **Development of IOD for Long-term EEG and Sleep Monitoring.**
 - JH mentioned that there needs to be modifications to Standard to describe use of novel codec for biomedical waveforms. Silvia Winkler (SW) stated that we can identify the sections of the Standard that need to be amended to describe how encapsulation works. SW reported that this description will be similar to encapsulation as described for JPEG images.
 - It was discussed how it would be specified the type of compression that would be applied using the novel codec including lossless versus lossy and JP stated that different levels of lossy compression such as high quality versus medium quality.

GS stated that a control parameter specifying the level of distortion could also be specified.

- It was discussed how blocking and indexing would work with the novel codec. GS stated that block size would likely vary, and the best compression performance would allow the encoder to choose the block size adaptively but there would be a maximum block size. It was discussed that the codec will provide back to DICOM the information for the index table.

6. UPCOMING WG-32 FACE-TO-FACE MEETINGS

- DICOM WG-32 will also plan to meet in person at ICCN 2026 in Cartagena, Columbia.

7. DATE AND TIME OF NEXT MEETINGS

Thursday 16 January 2025	10:00- 11:00 am UD ET
Thursday 20 February 2025	10:00- 11:00 am UD ET

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SUBMITTED BY

Kim Zaiss

SUBMITTED ON

Enter submission date.

LEGAL APPROVAL

Enter approval date.

UPLOAD LOCATION

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