

MINUTES

MEETING NAME WG-32

MEETING PLACE/DIAL IN Via Zoom

DATE & TIME Thursday 16 February 2023
10:00– 11:00 AM Eastern Daylight Time (EDT)

PRESIDING OFFICERS Jonathan J. Halford, Medical University of South Carolina, User Co-Chair
 Andrew Ehrenberg, Nihon Kohden Corporation, Vendor Co-Chair

IFCN SECRETARIAT Kim Zaiss

DICOM SECRETARIAT Carolyn Hull

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
Present	Ben	Brinkmann	Mayo Clinic	Voting
Present	Jonathan	Halford	Medical University of South Carolina	Voting
	Carolyn	Hull	MITA	Voting
Present	Andrew	Ehrenberg	Nihon Kohden Corporation	Voting
	Alan	Huang	Philips	Voting
	Wim	Corbijn van Willenswaard	Philips	Alt. Voting
	Jeroen	Medema	Philips	Alt. Voting
	David	Clunie	PixelMed Publishing	Voting
	Silvia	Winkler	Sigma Software Solutions	Voting
	Ana	Alves	CortexXus Inc.	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
Present	Steve	Nichols	GE Healthcare	Observer
	Gardar	Thorvardsson	Kvikna / Stratus EEG	Observer
	Richard	Moberg	Moberg Research, Inc.	Observer
	Desire	Jean		Observer
	Jean	Gotman	Montreal Neurological Institute, McGill University	Observer
	Casey	Stengel	Neuralynx	Observer
	Bill	Antilla	Nihon Kohden Corporation	Observer
	Ryuzo	Mase	Nihon Kohden Corporation	Observer
	Koichiro	Matsumoto	Nihon Kohden Corporation	Observer
	Pedro Fernando	Arizpe Gomez	OFFIS e. V.	Observer
	Daniel	Crepeau	Dark Horse Neuro	Observer
	Andrey	Pirozhenko	Persyst	Observer
	Shane	Ponzikoff	Persyst	Observer
	Wouter	Potters	Amsterdam UMC, Netherlands	Observer
Present	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
Present	Justin	Dauwels	Technische Universiteit Delft	
Present	Kim	Zaiss	EDI	Observer
Present	Giuseppe	Campobello	University of Messina	

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

The meeting was called to order at 10:03 AM. 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 and approved.

4 REVIEW MINUTES

The minutes of the 19 January 2023 meeting were reviewed and approved.

5 OLD BUSINESS

- Several issues with Supplement 236 were discussed. It was decided that annotations would be encoded as a text with a timepoint and an author. Optional encoding would be provided to be able to encode a montage and a channel list.

6 NEW BUSINESS

- Giuseppe Campobello presented data on compression ratio and distortion for multiple common audio codecs including MPEG-ALS and FLAC for EEG, EMG, and ECG data. It was decided that Jon Halford would provide further EEG data for him to test.
- Jon Halford reported that the ITU had requested a document outlining the technical specifications for a new ITU codec for neurophysiology. It was agreed that a new codec might not be needed, depending on how testing of audio codecs goes, but we could continue to work with ITU to start the process of creating a new codec in case one is needed. It was agreed that there are multiple aspects of audio codecs that are not optimized for neurophysiology, such as audio codecs not using inter-channel mutual information for compression.

7 DATE AND TIME OF NEXT MEETINGS

Thursday 16 March 2023	10:00-11:00am US ET
Thursday 20 April 2023	10:00-11:00am US ET

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[Enter submitter.](#)