

## MINUTES

### Joint meeting of DICOM WG 01 Cardiac & Vascular & DICOM WG-12, Ultrasound

**Date and Time:** Monday 26 August 2019  
 10:00am – 11:30 am US ET

**Presiding Officers:**  
 WG-01 User co-chair: Bruce Bray, University of Utah Health  
 WG-01 Vendor co-chair: Antje Schroeder, Siemens-Healthineers  
 WG-12 User co-chair: Bruce Bray, University of Utah Health  
 WG-12 Vendor co-chair: Sander Dekker, Cablon Medical

**DICOM Secretariat** Lisa Spellman, General Secretary, DICOM

WG-01	WG-12	Present	First Name	Last Name	Organization	Voting Status
			Donald	Peck	AAPM	
Y			Bruce	Bray	ACC/University of Utah Health	Voting
	Y	Present	Bruce	Bray	ACC/University of Utah Health	
Y		Present	Paul	Sovellius	Advanced Surgical Visualization Consortium	Observer
	Y		Paul	Sovellius	Advanced Surgical Visualization Consortium	
Y			Paul	Seifert	Agfa	Voting
	Y		Terry	Dillon	Agfa	
	Y		Willy	Rose	Agfa	
Y			Paul	Varghese	American College of Cardiology	Alt. Voting
	Y		Paul	Varghese	American College of Cardiology	
Y			Mythreyi Bhargavan	Chatfield	American College of Radiology	Observer
Y			Peter	Tilkemeier	American Society of Nuclear Cardiology (ASNC)	Voting
	Y		Emmanuel	Cordonnier	b<>.com	
Y			Rami	Barti	Bar-Code Computers Ltd.	Observer
Y			Minoru	Mashimo	Bard Electrophysiology - C.R. Bard	Observer
Y			Mati	Amit	Biosense-Webster (ISRAEL) Ltd.	Observer
	Y		Jens	Rasmussen	B-K Medical ApS	
	Y		Hugo	Robert	Bracco Diagnostics Inc.	
	Y		Sander	Dekker	Cablon Medical B.V.	

	Y		Kevin	O'Donnell	Canon Medical Research USA, Inc.	
	Y		Kazuya	Akaki	Canon Medical Systems USA, Inc.	
Y			Satoshi	Oagawa	Cardiovascular Division, Dept of Medicine	Observer
Y			Neil	Weissman	Cardiovascular Research Foundation	Observer
	Y		Christy	Adams	Carestream Health, Inc.	
	Y		Jay	Na	Carestream Health, Inc.	
	Y		Jun	Sun	Carestream Health, Inc.	
	Y		Elliot	Silver	Change Healthcare	
	Y		Edwood	Yiu	Change Healthcare	
	Y		James	Rogers	Coastal Consulting Group, Ltd.	
Y			Katsu	Takenaka	Department of Laboratory Medicine	Observer
Y			Kiyoshi	Yoshida	Division of Cardiology	Observer
Y			Mitchell	Krucoff	Duke University Medical Center	Observer
Y			Donald	Van Syckle	DVS Consulting, Inc.	Observer
	Y		Masao	Kobayashi	EBM Technologies Japan, Inc.	
	Y		Marco	Maglione	Esaote	
	Y	Present	Stefano	Pedri	Esaote	
	Y		Luigi	Pampana-Biancheri	ESAOTE S.p.A.	
Y			Nico	Bruining	European Society of Cardiology	Voting
Y			Robert	Horn	Fairhaven Technologies	Observer
	Y		Wojtek	Grabski	Flux Inc.	
	Y		John	Freeland	Freeland Systems	
	Y		William	Hensen	FUJIFILM Sonosite, Inc.	
Y			Bob	Conway	GE Healthcare	Observer
Y			Brian	Nantz	GE Healthcare	Observer
Y		Present	Steven	Nichols	GE Healthcare	Observer
Y			Francisco	Sureda	GE Healthcare	Observer
	Y		Karl-Heinz	Fleischer	GE Healthcare	
	Y		Steven	Nichols	GE Healthcare	
	Y		Gopi	Pattaswamy	GE Healthcare	
	Y		Brian	Lenz	GE Healthcare, Ultrasound	
Y			Gary	Tearney	Harvard Medical School	Voting
	Y		Bernard	Stumpf	Heartlab	
Y		Present	Ravi	Managuli	Hitachi Healthcare Americas	Voting
	Y		Ravi	Managuli	Hitachi Healthcare Americas	
Y			Yoshikazu	Igeta	Hitachi Medical Corporation	Observer
	Y		Dai	Shinohara	Hitachi, Ltd. Healthcare Business Unit	
	Y		Michel	Claudon	Hôpital d'Enfants - Hôpital Jeanne d'Arc	
	Y		Jean-Yves	Meuwly	Hospices Cantonaux Centre hospitalier universitaire vaudois	
Y			Nitesh	Sawner	IGATE	Observer
Y			Bonnie	WEienr	Imaging Core Lab Services	Observer
	Y		Karla	Patten	Independent Consultant	
	Y		Leodan Vega	Izaguirre	Informatics Science University	

Y			Jörg	Riesmeier	IT Consultant	Observer
	Y		William	Shepherd	iVu Imaging Corporation	
	Y		Varsha	Garg	Jaypee Institute of Information Technology	
	Y		Karan	Grover	Jaypee Institute of Information Technology	
	Y		Jaspreet	Singh	Jaypee Institute of Information Technology	
	Y		Aditya	Jain	JIIT	
	Y		Akshay	Sharma	JIIT	
Y			Jon	Elion	Jon Elion	Voting
Y			Douglas	Sluis	Laitek Inc.	Observer
Y			Harry	Solomon	Laitek Inc.	Alt. Voting
	Y	Present	Harry	Solomon	Laitek Inc.	Voting
			Doug	Sluis	Laitek Inc	
Y			Joel	Friedman	LightLab Imaging, Inc.	Voting
Y			Robert	Steinbrecher	LightLab Imaging, Inc.	Alt. Voting
Y			Monica	Mojica	Mark Twain Medical Center Dignity Health	Observer
	Y		Monica	Mojica	Mark Twain Medical Center Dignity Health	
Y			Arvind	Thiagarajan	Matrixview USA Inc.	Observer
	Y		Arvind	Thiagarajan	Matrixview USA Inc.	
Y			Fred	Kusumoto	Mayo Clinic	Observer
Y			Charles	Thomas	Medical Imaging & Informatics Consultant	Observer
	Y		Rebecca	Trunnell Hyman	Merge Healthcare an IBM Company	
Y			Luiza	Kowalczyk	MITA	Observer
Y	Y	Present	Lisa	Spellman	MITA	Observer
Y			Mariza	Foster	MRI + Radiology Centre	Observer
Y			Brian	Lunt	MyXrayDose Ltd	Observer
Y			James	Thomas	Northwestern Memorial Hospital	
	Y		James	Thomas	Northwestern Memorial Hospital	
Y		Present	Chris	Melo	Philips	Observer
Y			Ruud	van Silfhout	Philips	Voting
	Y		Earl	Canfield	Philips	
	Y		Haiyuan	Lu	Philips	
	Y		Joe	Luszcz	Philips	
	Y	Present	Easwara	Moorthy	Philips	
	Y		Verena	Rödiger	Philips	
Y			Miranda	Jacobson	Philips Volcano	Observer
	Y		Miranda	Jacobson	Philips Volcano	
Y			Folkert	Tijdens	Pie Medical Imaging BV	Observer
Y			David	Clunie	PixelMed Publishing	Voting
	Y		David	Clunie	PixelMed Publishing	
	Y		Robert	Muratore	Quantum Now LLC	
Y			Rex	Kerr	rk-logix, inc	Observer
	Y		Rex	Kerr	rk-logix, inc	
	Y		Angeline	Cosca	Sdmi	
	Y		Allison	Bertrand	Seno Medical Instruments, Inc.	

	Y		Bryan	Clingman	Seno Medical Instruments, Inc.	
Y			Tat-Jin	Teo	SensorCath Inc.	Observer
	Y		Dezheng (Bruce)	Li (Lee)	Shanghai United Imaging Healthcare	
Y			Shigeru	Saito	Shonankamakura General Hospital	Observer
Y			Heinz	Blendinger	Siemens Healthcare GmbH	Observer
Y		Present	Antje	Schroeder	Siemens Healthcare GmbH	Observer
	Y		Antje	Schroeder	Siemens Healthcare GmbH	
	Y		Neerja	Baru	Siemens Healthineers	
	Y		Bryan	Brook	Siemens Healthineers	
	Y		Jim	Chapman	Siemens Healthineers	
	Y		Helene	Houle	Siemens Healthineers	
	Y		Jan-Ulco	Kluiwstra	Siemens Healthineers	
	Y		George	Ku	Siemens Healthineers	
	Y		Ernest	Liu	Siemens Healthineers	
	Y		Linda	Perez	Siemens Healthineers	
	Y		Merv	Smith-Casem	Siemens Healthineers	
	Y		Joel	Chabraias	Société Française de Radiologie	
Y			Byrd	Bryan	St. Jude Medical Inc.	Observer
	Y	Present	Damien	Lerat	SuperSonic Imagine	
	Y		Jacques	Souquet	SuperSonic Imagine	
Y			Isao	Mori	Terumo Corporation	Observer
Y		Present	Paul	Sovelius	Advanced Surgical Visualization Consortium	Observer
	Y		Paul	Sovelius	Advanced Surgical Visualization Consortium	
	Y		Jens	Stockhausen	TOMTEC IMAGING SYSTEMS	
	Y		Achim	Mayer	TomTec Imaging Systems, GmbH	
	Y		Bernhard	Mumm	TomTec Imaging Systems, GmbH	
	Y		Michael	Douglas	Toshiba America Medical Systems	
	Y		Clare	Anderson	Trillium Technology, Inc.	
	Y		Bill	ZHANG	Ultrasonix Medical Corp	
	Y		Andrew	Pokropek	University College London	
	Y		Zheng Feng	Lu	University of Chicago	
	Y		Paul	Carson	University of Michigan Health System	
	Y		Gregory	Ensing	University of Michigan Medical Center	
Y			John	Hirshfeld	University of Pennsylvania	Observer
Y			Raymond	Bond	University of Ulster	Observer
	Y		David	Linker	University of Washington	
	Y		Craig	Walker	VidiStar, LLC	
	Y		Cristina	Suarez Mejias	Virgen del Rocio University Hospital	
	Y		Jonathan	Whitby	Vital Images, Inc.	
			Bas	Revet		Observer

## 1. Opening

- 1.1. Open and roll call.
- 1.2. Antitrust and DICOM patent policy review.
- 1.3. Agenda review and approval.
- 1.4. Minutes from 29 July 2019 were approved with no edits.

## 2. AAPM Quality Assurance Elements status update: (Sander, Harry)

### A. Pixel Map Analysis

- **Lead:** Dr. Lu and Harry Solomon.
- Harry provided a status update. A draft of the survey was posted in today's meeting folder and emailed to the WG. He received a few emails with comments/edits.
- The survey is focused on basic interoperability questions to determining what users are and are not able to do today. He hopes to receive feedback on specific product lines answered by product managers and not sales or marketing. The target distribution will go to other DICOM WGs; MITA, AAPM and other similar.
- Lisa asked if the survey was anonymous; it is not. She will send the draft to MITA/NEMA legal to ensure questions do not stray into antitrust territory.
- Motion was made to approve the survey, with the minor edits to be made as discussed.
- Approved with one Abstention
- There was some additional discussion on the need to clarify a few questions, which Harry agreed to do and then will post in meeting folder.
- **Target survey completion deadline: 31 September 2019**

#### *Next steps*

**<Action 1>** Harry will make a few additional edits to help clarify a few questions.

**<Action 2>** Lisa will send the survey to MITA/NEMA legal for review to ensure the questions do not edge into anti-trust issues.

### B. Display LUT:

- Not discussed today.

### C. CP for Transducer Serial Number: CP1951

- **Lead:** Kevin O'Donnell
- Is in WG-06 review. Update reported after WG-06 September meeting
- No update given today.

### D. Other tags on the AAPM proposed attributes list

- **Lead:** Sander Dekker, Dr. Lu and others from AAPM
- **Status update:** This project is on hold until the Display LUT, PixelMap and Transducer S/N projects have been completed.

#### 4. 2019 ACC/AHA/ASE Key Data Elements for Transthoracic Echo (Antje, Bruce)

- 2019 update for KDE in echo has now been published:  
[https://www.ahajournals.org/doi/full/10.1161/HCI.000000000000027?url\\_ver=Z39.88-2003&rfr\\_id=ori%3Arid%3Acrossref.org&rfr\\_dat=cr\\_pub%3Dpubmed](https://www.ahajournals.org/doi/full/10.1161/HCI.000000000000027?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed)
- Bruce noted that some members of WG1/WG12 reviewed an earlier draft version of this list approximately 6 months ago.
- He will request a spreadsheet version to review and compare with current DICOM SR for ultrasound.
- More feedback is needed as to how this harmonizes with current SR tables – might be less than 10% or 20% change overall.

**<Action 3>** Bruce will request the spreadsheet from someone on the writing committee.

**<Action 4>** Antje is going to review for change and report at Sept tcon.

#### 5. Cardiac Strain Structured Reporting status update

- Discussion of cross-vendor comparison for STRAIN
- **<Action 3 from June tcon>** Status update
  - Create a draft for RV Free Wall Strain and discuss to see if ready to submit as a CP.
  - **Leads:** Kevin, Bruce
- **<Action 4 from May & June tcons> <Requested member action>**: Bruce encouraged people to review the spreadsheet, the 4<sup>th</sup> Measures tab in particular  
[https://docs.google.com/spreadsheets/d/16Ndb\\_dKIVzYDfEwWHWuAqJr-yvcl2sFYLx65XshJERc/edit?usp=sharing](https://docs.google.com/spreadsheets/d/16Ndb_dKIVzYDfEwWHWuAqJr-yvcl2sFYLx65XshJERc/edit?usp=sharing)

**<Action 5>** Kevin was not on the call today, so Lisa will request a status update from Kevin.

#### 7. Old or New Business

- No old or new business was discussed.

#### 8. Next meetings (Tcons usually 4<sup>th</sup> Monday of each month, joint WG1/WG12, 10-1130am US ET)

**Monday 23 September 2019, WG1 & WG12, 2019-09-23, 10:00-11:30am US ET**

<https://global.gotomeeting.com/join/708135109>

**Monday 28 October 2019, WG1 & WG12, 2019-10-28, 10:00-11:30am US ET**

<https://global.gotomeeting.com/join/299660493>

**Monday 25 November 2019, WG1 & WG12, 2019-11-25, 10:00-11:30am US ET**

<https://global.gotomeeting.com/join/314142245>

**A December 2019 tcon will not be held** as the 4<sup>th</sup> Monday will be 30 December, which is a time many people are on holiday. Going earlier would conflict with RSNA19/post-RSNA19, the decision was made to cancel.

**F2F:** No F2F meetings scheduled at this time.

#### 9. Adjourn

The tcon adjourned at 10:48am US ET. Report prepared by Lisa Spellman, DICOM General Secretary. Report reviewed by MITA/NEMA legal counsel. CRS, August 26, 2019.