



DICOM WG-06 Base Standard Minutes

March 30-April 3, 2020

Video Conference Replacing F2F

Presiding Officers: Bjorn Nolte, Siemens Healthineers, Chair
 David Clunie, PixelMed, DICOM Editor
 DICOM Secretariat Carolyn Hull, MITA/NEMA

Member Company/ Organization	Represented by		Monday 3/30	Tuesday 3/31	Wednes- day 4/1	Thursday 4/2	Friday 4/3
Voting Members Represented/Present							
ACR	Brian Bialecki	Voting	X	X	X	X	X
Agfa	Paul Seifert	Voting	X	X	X	X	X
Canon	Kevin O'Donnell	Voting	X	X	X	X	X
Fairhaven Technologies	Robert Horn	Voting	X	X	X	X	X
GE Health-care	Steven Nichols	Voting	X	X	X	X	X
JIRA	Shinichi Nakano	Voting					
Konica Minolta	Michael Laconti	Voting	X	X			
MITA/DICOM	Carolyn Hull	Voting	X	X	X	X	X
Philips	Corbijn Van Willenswaard, Wim	Voting	X	X	X	X	X
Pixelmed Publishing	David Clunie	Voting	X	X	X	X	X
Siemens	Bjorn Nolte	Voting	X	X	X	X	X
Others Present (Alternate Voting Members, Observers, Guests)							



Digital Imaging and Communications in Medicine

Company/ Organization	Represented by		Monday 3/30	Tuesday 3/31	Wednes- day 4/1	Thursday 4/2	Friday 4/3
AAPM	Donald Peck	Obs.	X		X	X	
AAPM	Shayna Knazik	Obs.	X		X	X	
Argentix	Elliot Silver	Obs.	X	X			
Brainlab	Christof Schadt	Obs.	X	X	X	X	X
Elekta	Jim Percy	Obs.		X	X	X	
GE Healthcare	Francisco Sureda	Alt Voting	X		X		
GE Healthcare	Chris Lindop	Obs.		X			
IEEE	Harry Solomon	Obs.			X	X	
Individual	Ulrich Busch	Obs.		X	X	X	
JIRA	Akihiro Yomoda	Alt Voting	X	X	X	X	X
MUSC	Jonathan Halford	Obs.			X	X	X
AAPM	Nick Bevins	Obs.	X		X	X	
Siemens Healthineers	Thomas Mangold	Obs.	X		X		
Sigmasoft	Silvia Winkler	Obs.			X	X	X
Univ. of Queensland	Liam Caffery	Obs.		X			
University of Applied Science and CSI	Uwe Tronnier	Obs.					X
Vital Images	Jonathan Whitby	Obs.		X			X
Wonkwon Health Science University	Jungsu Kim	Obs.		X	X		



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1. Agenda - The agenda was reviewed and approved.
2. Welcome- Mr. Nolte welcomed everyone to the call.
3. Antitrust/Patent Statement--Ms. Hull read the antitrust and patent statement.
4. Review of Minutes- Minutes were approved.
5. Administration
 - a. Discussion of working remotely and time zones, using video, etc.
 - b. Will discuss and review on Friday: Timing, use of video, concentration, participation levels, etc.
 - c. Discussed Supp 160-Some discussion of this. Christof to bring issue for feedback.

Report on Letter Ballots

1. C-Pack 105: Passed vote.
2. C-Pack 106: Sent out for a vote.

Report on Correction Proposals

C-Pack 105 for Final Text in March 2020 (Approved)

- **1733** Add Primary Anatomic Structure Context Group for Pathology
- **1955** De-identification and datetime stamps in UIDs
- **1956** Update DICOM to reflect changes in IHTSDO SNOMED CT-DICOM Subset for JUL 2019 INT Release
- **1957** More replacements of DICOM codes for headings with LOINC
- **1958** Add Coronary Artery CT Fat Attenuation Index (FAI)
- **1959** Add codes for more biliary tree structures
- **1960** Correct some incorrect assignments of unilateral versus lateral vessels
- **1961** Allow more general ultrasound report document titles
- **1963** Add codes for selected laterality precoordinated anatomical structures
- **1965** Update NTP profile in PS3.15
- **1973** There are different names used for the same UID in different parts of the standard. Same UIDs should be referred to by the same name.
- **1979** Value Set Constraint of row 4 within TID11005 has to be changed from CID 230 "Yes-No" to CID 231 "Yes-No Only"
- **1980** Change Requested Type attribute of row 15 within TID 11004 from Mandatory (M) to Optional (U)

C-Pack 106 for Final Text in June 2020 (Approved for Letter Ballot Voting)

- **1596** Modality LUT in Volumetric Presentation State
- **1962** Changes to Abomen-related anatomy concepts in SNOMED CT
- **1966** Explicitly define the order of pitch and roll rotations
- **1967** Align Beam Type Attribute Description
- **1968** Clarify term Verify in RT Beams Delivery Instruction
- **1969** RT Anatomic Prescription Color



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- **1970** Clarifications of Modulated Scan Mode Type (300A,0309) and related examples
- **1971** RT Ion Beams Correction for Scan Spot Size Record
- **1972** Add Work item Code for Emergency Treatment
- **1976** Frame Type reference
- **1977** Multienergy Sequence Testing
- **1981** Part1 update to include DICOM-RTV
- **1984** Add Slide Plane Orientation information to Segmentation
- **1985** Improve handling of Route of Administration
- **1986** Give Planned IAASR the ability to be treated in a specific order
- **1987** Make rows that are only meaningful for Automated Administration conditional
- **1988** Improve the definition of programmable device as used in contrast administration
- **1989** Fix condition on presence of manually triggered injection information
- **1991** Make coding of Phase duration conditional on not being a manual administration
- **1993** OB-GYN Ultrasound code and template updates

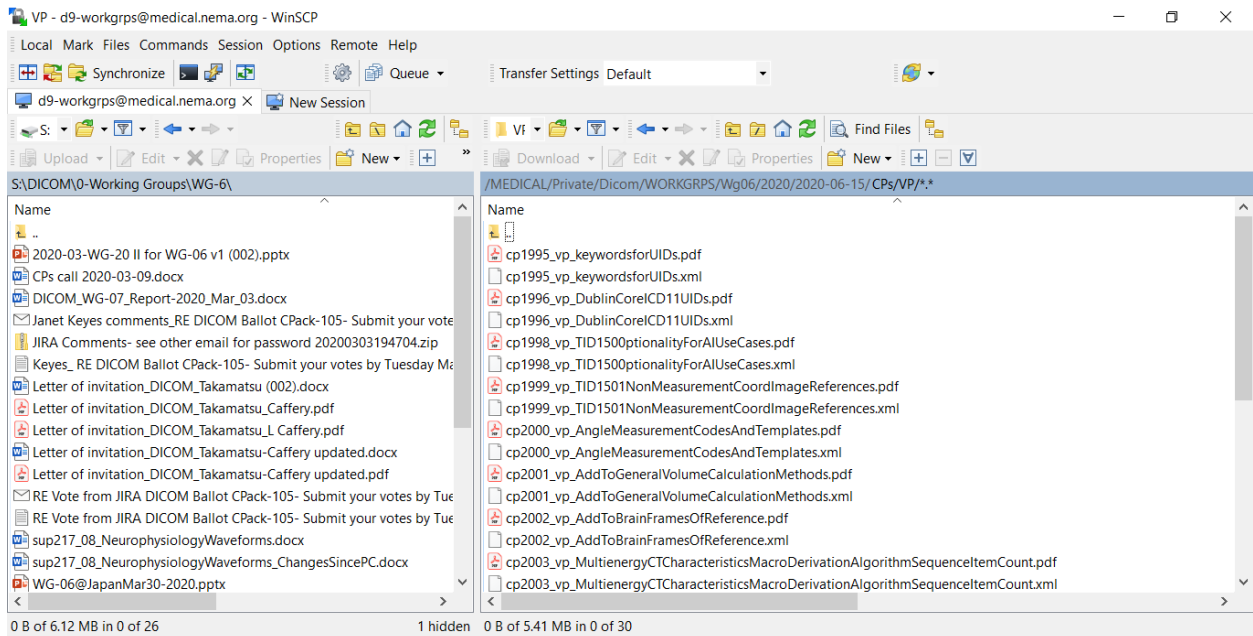
CPack-107 for Final Text in September

- **1881**-Add IEC 62985 Size Specific Dose Estimation
- **1951**-Add ultrasound Probe ID
- **1974**- Clarify Overlay for Multiframe Image
- **1994**-Primary Anatomic Structure Sequence has no CID defined
- **1995**-Keywords for UIDs- goes to the voting packet June 2020
- **1996**-Correct duplicate assignment of UID to ICD-11 already used for Dublin Core
- **1998**-Relax unnecessary TID 1500 requirements to simplify for some AI/ML use cases
- **1999**-Non-measurement 2D and 3D coordinate and image references
- **2000**-Angle measurement codes and templates
- **2001**-Add to general volume calculation methods
- **2002**-Add to well known brain atlas frames of reference
- **2003**-Add missing item count in Multi-energy CT Characteristics Macro Derivation Algorithm Sequence
- **2004**-Make Frame Anatomy in Parametric Map Optional
- **2005**-Deformable Registration Codes
- **2007**-Referenced Dose Reference UID is missing from Referenced Brachy Application Setup Sequence
- **2008**-Add Synchronization Module to CT IOD
- **2009**-Update use of may to shall for mandatory usage
- **2010**-New ImageType(s) for Multi-energy CT Acquisition: ENERGY_VRPROP_WT
- **2011**-TID 10015. CT Dose Check Details: Alternative dose alert behavior according NEMA XR-25 (2019)
- **2012**-Add Comments on Radiation Dose (0040,0310) to PS 3.15 Table E.1-1
- **2013**-Replace DCM code for Soft Tissue with SNOMED code
- **2018**- Description of CTDIvol is not complete
- **2019**-Correct inconsistencies from Sup188 (Attribute presence, Rescale Type Definition (%))



3. Assigned CPs

Please upload the VP version (candidates for the June Voting Package/CPack-106) in the June VP mtg folder. Please see the screen shot below:



- **1992** Implant restrictions
- **1964** Improve Definition of Pixel Spacing
- **1997** Add keywords for codes in PS3.16 to use as business names
- **2006** Unattached Contours
- **2014** Correct condition in TID 11020 row 11
- **2015** Change UDI specification of Device identification from mandatory to optional
- **2016** Handling of injector events for entering / resuming from a programmed / manual hold state could not be protocolled within the Injector Event TID 11022
- **2017** Update PS3.15 Table E.3.10-1 for list of Philips safe private elements
- **2020** Correct Directory Content Example
- **2021** Clarify Implementation Version Name Character Repertoire
- **2022** Correct ratio units
- **2023** Clarify missing numeric measurement value in SR
- **2024** De-identify Scheduled Procedure Step ID
- **2025** Require Whole Slide OVERVIEW images to be single frame
- **2026** Clarify private block assignment
- **2027** Correct OCT En Face figure legends
- **2028** Extensiveness of findings
- **2029** Add abdominopelvic vascular section
- **2030** Include additional Radiopharmaceuticals and Isotopes utilized in NM



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- **2031** Add Frame of Reference Module to Surface Scan Mesh and Point Cloud IODs
- **2032** Casing of Bulkdata uri element name inconsistent for DICOM XML
- **2033** Clarify Implementation Version Name Character Repertoire
- **2034** Add FHIR to Access and Storage Macros
- **2035** Reference RT Structure Sets for Planar and Volumetric ROIs in DICOM SR TID 1500
- **2036** Add optional Source Concept Name for otherwise anonymous image, waveform and coordinate Content Items in SR
- **2037** Inner and Outer Contours of RT Structure Set ROIs
- **2038** Add RT Attributes to Confidentiality Profiles
- **2039** Enhanced Specification of the Beam Limiting Device Offset
- **2040** Fix DICOMweb DICOM Media Types
- **2041** Add Table Value Type for DICOM SR
- **2042** Add SV and UV Selector Attributes

4. New CPs:

- **2037** Inner and Outer Contours of RT Structure Set ROIs
- **2038** Add RT Attributes to Confidentiality Profiles
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Report on Supplements

SECRETARY NOTE: All documents are uploaded on the ftp server in the directory of WG-06. Please refer to documents for more technical details.

5. Supp 212 XA Protocol Storage

- a. **Reviewed and discussed**
- b. **Action item:** Make a list of SNOMED codes and for permission to use
- c. Returns for review (Pre-Letter Ballot) in June 2020
- d. Get feedback from XA vendors

DECISION: Approved for Public Comment with updates

6. Supp 214: Cone Beam CT in RDSR

- a. Homework: Look at robot approach. Add a system description.

DECISION:

- a. Not yet ready for Public Comment.
- b. Will have a special WG-06 call to discuss in May.
- c. Returns for another Pre-Public Comment Review



7. Supp 199: Radiation Record

- a. Reviewed and discussed
- b. Needs minor changes to Radiation Set Module

DECISION:

- a. Approve for Letter Ballot with minor changes

8. Supp 217: Neurophysiology Waveforms

- a. Reviewed and discussed
- b. Remove Waveform Annotation Module
- c. The Waveform Annotation Module will be submitted as a CP

DECISION

- a. Approved for Letter Ballot
- b. Two two-hour slots for June 2020 meeting

9. Supp 221: Dermoscopy

- a. Reviewed and discussed

DECISION

- a. Approved for public comment
- b. Action: CH to send to WG-23 and DICOM Community, others to forward to additional groups and vendors.

10. Supp XXX WG-20/HL7

- a. **The chairs presented on HL7 cooperation with DICOM and current progress**
- b.

11. Supp 21: Functional Acq. Paradigm Protocol

- a. Not reviewed-the group needed more time. Will go on June 2020 schedule

12. Sup 211: Application/zip support

- a. Not reviewed during this meeting. Will go on June 2020 schedule.

Upcoming Meeting Schedule

June 15-19, 2020, MITA HQ, Arlington, VA, USA

August 31-September 4, 2020, MITA HQ, Arlington, VA, USA

November 9-13, 2020, MITA HQ, Arlington, VA, USA

Next Meeting Agenda

The agenda plan is posted in the June 2020 meeting folder on FTP.



Adjournment

The meeting began at 9:00AM ET Monday, March 30, and was adjourned at 1:00PM Friday, April 6

Submitted by: Carolyn Hull, 4/13/2020

Reviewed by counsel: CRS, April 14, 2020.