

MINUTES

DICOM WG-06 Base Standard

January 10-14, 2022

Remote Meeting Replacing F2F

Presiding Officers: Bjorn Nolte, Siemens Healthineers, Chair
 David Clunie, PixelMed, DICOM Editor

DICOM Secretariat: Shayna Knazik, MITA/NEMA

Summary of decisions from this meeting

- CPack-114 was approved for Final Text with 17 Correction Proposals (CPs).
- CPack-115 was approved for Letter Ballot with 14 CPs.
- A new supplement on Assertion Collection IOD was presented for First Read.
- A new supplement on Photoacoustic Imaging was presented for First Read and assigned the number 229.
- Supplement 225 on Multi-Fragment Video Transfer Syntax was approved for Final Text pending a final review from David Clunie.

1. Administrative

- a. With a quorum present, the January WG-06 virtual meeting was called to order at 9:03AM US EST on Monday, January 10, 2022.
- b. Antitrust and patent statement reminder: Per DICOM bylaws, all discussions in this meeting, including those in the chat window, must abide by DICOM’s antitrust and patent policies which are located on the DICOM website: <https://www.dicomstandard.org/patent>
- c. The agenda was reviewed and approved.
- d. The minutes from the November 2021 WG-06 meeting were reviewed and approved.

2. Report on Letter Ballots

DSC Ballot	Approve	Disapprove	Abstain	Comments
CPack-114	19	0	0	9
Supplement 225	9	0	2	1

a. CPack-114

- i. The official ballot was distributed to voting members of the DICOM Standard Committee on November 19, 2021 and closed on January 7, 2022. CPack-114 included the following CPs (17 FTs):

CP #	Title	Decision
CP-2129	Extend RT Segment Characteristics With Metal Alloy Concepts used for Implants	Approved for Final Text
CP-2141	Add vertebra and intervertebral disk anatomy	Approved for Final Text
CP-2142	Relax requirement for evidence sequences in legacy converted images	Approved for Final Text
CP-2143	Correct code for microscope slide and add staining codes to example	Approved for Final Text
CP-2145	Add Laterality to MWL	Approved for Final Text
CP-2146	Add Procedure Code Context Groups	Approved for Final Text
CP-2147	Relax requirement on discriminators and XML IDs in CDA	Approved for Final Text
CP-2150	Add OAR to RT ROI Interpreted Type	Approved for Final Text
CP-2152	Add Plan Overview parameters to RT Dose	Approved for Final Text
CP-2153	Treatment Plan Update for 60601-2-1ED4 - Add Linac Calibration Parameters	Approved for Final Text
CP-2154	Treatment Record Update for IEC 60601-2-1 ED4	Approved for Final Text
CP-2155	Add Long Label to Beam	Approved for Final Text
CP-2156	Add Block Slab Sequence in RT Ion Beams Treatment Record	Approved for Final Text
CP-2157	Add Anatomic Region to RT Plan	Approved for Final Text
CP-2158	Correction of unit for Fixation Light Polar Angle Tolerance	Approved for Final Text
CP-2159	New Interlock Codes for RT	Approved for Final Text
CP-2164	Add Research Resource Identifier (RRID) Coding Scheme	Approved for Final Text

- ii. **DECISION:** A motion was made by David Clunie and seconded Kevin O'Donnell to approve CPack-114 for Final Text as amended. **APPROVED.**

3. Report on Correction Proposals

a. New CPs

Submitted file name	Title	New CP #
cp_dac601	Add Specimen and Container Type to Preparation Template	CP-2194
cp_dac602	Add seed point for purpose of region	CP-2195
cp_dac603	Add FHIR Coding Scheme URL Type	CP-2196
cp_dac604	Add Clinical Trial Time Point Type Code Sequence to Study Module and extend Value Set	CP-2197
CP_hb22	Correct row reference in Content Item Description of TID 10003	CP-2198
cp_jr23b	Fixes to Part 5 for recently added VRs OV, SV and UV (and regarding inconsistent and incomplete definitions)	CP-2199

cp_jr24	Fix inconsistent names of extended Storage Service features	CP-2200
cp_jr25	Fix wrong term "Basic Worklist Management SCP"	CP-2201
cp_jr26	Add References between 1st and 2nd Gen Rad IODs	CP-2202
cp_RT190	Restore multipart bulkdata and clarify range requests	CP-2203
CP_SinglePartBulkData	Correction of confusing statement regarding implementation of Pixel Aspect Ratio for icons	CP-2204
cp_vanWijk_unclear	Correct the media types for video in PS3.18	CP-2205
CP_VideoMimeType	Clarify Media Audit and add example	CP-2206
cp_rjh49	Include additional cardiovascular terms to Part 16	CP-2207
cpnnn-01_add	Add References between 1st and 2nd Gen Rad IODs	CP-2208

b. **CPack-115/January 2022 Voting Packet**

CP #	Title
CP-1196	Add phantom-specific Total DLP Values to allow for Head and Body in same RDSR scope of accumulation
CP-2086	Relax requirement for Slice Thickness, Pixel Spacing and Imaged Volume Width/Depth/Height for Whole Slide Microscopy LABEL and OVERVIEW images
CP-2130	Referencing from UV Mapping Module
CP-2135	Add Acquisition and Pyramid Entities to Information Model, with UIDs and other Attributes
CP-2139	Corrected inconsistencies in JSON Data Model mapping from XML
CP-2140	Add basic and examination information of the patient for DICOM virtual film printing
CP-2151	Align RT Structure Set Codes with Segmentations
CP-2160	Move duplicate Code Meaning for Code Value 65801008 to list of synonyms
CP-2163	Add term to represent the local client copy buffer to CID 405 for Data Export
CP-2165	Add indicator of control material on slide
CP-2167	Add more brain segmentation labels
CP-2169	Move SCP rendering requirements from Part 3 to Part 4
CP-2171	Define use of Pixel Padding Value for PALETTE COLOR images
CP-2172	Explanations on RT Radiation Usage and Intent

- i. **DECISION:** David Clunie made a motion to approve CPack-115 for Letter Ballot as amended (14 LBs). Kevin O'Donnell seconded the motion. **Motion approved.**

c. **Assigned CPs**

Note: Please upload the VP version (candidates for the CPack-116/March 2022 Voting Package) in the [March 2022 VP mtg folder](#).

CP #	Title	Decision
CP-1978	Restore presentation state retrieval to PS3.18	Remains assigned

CP-2062	Add Device UID to Contributing Equipment Sequence	Moved to CPack-116/ March Voting Packet
CP-2064	Code to reference a contributing processing algorithm	Moved to CPack-116/ March Voting Packet
CP-2144	Cleanup PS3.17 section AA to refer to IHE REM profile and figures	Moved to CPack-116/ March Voting Packet
CP-2161	<i>Photogrammetric Model Enhancement of VL IODs</i>	<i>Remains assigned. Action: reserve an hour on the next agenda to discuss. WG-06 requested a PowerPoint and a diagram.</i>
CP-2162	Clarification of waveform filter attributes	Moved to CPack-116/ March Voting Packet
CP-2166	Update DICOM to reflect changes in IHTSDO SNOMED CT-DICOM Subset for JUL 2021 INT Release	Moved to CPack-116/ March Voting Packet
CP-2168	Abbreviated spelling of "SR Document IE"	Moved to CPack-116/ March Voting Packet
CP-2170	<i>Fix inconsistent use of name "Blending Presentation State"</i>	<i>Remains assigned</i>
CP-2173	KOS Current Requested Procedure Evidence Sequence	Moved to CPack-116/ March Voting Packet
CP-2174	Clarify Photometric Interpretation of Legacy Converted images	Moved to CPack-116/ March Voting Packet
CP-2175	Correction of invalid module references in Softcopy Presentation State IODs	Moved to CPack-116/ March Voting Packet
CP-2176	Add Category of Finding to TID 1500	Moved to CPack-116/ March Voting Packet
CP-2177	Add Specimen Module to Microscopy Bulk Simple Annotations	Moved to CPack-116/ March Voting Packet
CP-2178	Clarify Microscopy Bulk Simple Annotations Coordinate Units	Moved to CPack-116/ March Voting Packet
CP-2179	<i>Add Pathology Annotation Codes</i>	<i>Remains assigned</i>
CP-2180	Add Anatomy to Microscopy Bulk Simple Annotations	Moved to CPack-116/ March Voting Packet
CP-2181	Add keywords for Context Groups in PS3.16	Moved to CPack-116/ March Voting Packet
CP-2182	Simplification of RT ROI Observations	Moved to CPack-116/ March Voting Packet
CP-2183	Add used ROI to Registration	Moved to CPack-116/ March Voting Packet
CP-2184	Add Conceptual Volume to Structure Set	Moved to CPack-116/ March Voting Packet
CP-2185	Add Treatment Session UID to First Generation RT Objects and CT Image	Moved to CPack-116/ March Voting Packet
CP-2186	Cleanup of Planning Risk Volume Code	Moved to CPack-116/ March Voting Packet

CP-2187	Describe usage of Configuration and Commissioning Keys To Radiation Generation Mode Macro	Moved to CPack-116/ March Voting Packet
CP-2188	Restore RESTful WebServices use case examples	Moved to CPack-116/ March Voting Packet
CP-2189	<i>Correct inconsistent Multi-Energy Image type conditions for Classic and Enhanced CT IODs</i>	<i>Remains assigned</i>
CP-2191	Correct errors in Audit Message example in Part 17	Moved to CPack-116/ March Voting Packet
CP-2192	Add digital certificate to de-identification profile	Moved to CPack-116/ March Voting Packet
CP-2193	Add Encapsulated Document to de-identification profile	Moved to CPack-116/ March Voting Packet

4. Report on Supplements

NOTE: All documents are uploaded to the FTP server in the directory of WG-06. Please refer to those documents for more technical details. Contact the Secretariat for help accessing the FTP.

a. New RT supplement on Assertion Collection IOD

- i. WG-07 presented a New Work Item Proposal to get guidance on some technical issues from WG-06. They will bring it back to WG-07 then DSC.

b. New Supplement on Photoacoustic Imaging

- i. Brian Bialecki and Stefan Morscher presented a new supplement for First Read. This introduces a new IOD and a new storage SOP Class for encoding and storing photoacoustic images.
- ii. Kevin O'Donnell moved to assign this Supplement a number and Wim Corbijn seconded the motion to approve. **DECISION:** This supplement was assigned the number 229.

c. Supplement 209: DICOM Conformance Statement (WG-31)

- i. Antje Schroeder and WG-31 continued with the presentation of Supplement 209 since their last sessions in November 2021. Sup209 is working toward Letter Ballot. There were a few questions on Bruno Laffin's section so the group decided to finish these on a conference call before the March WG-06 meeting.
- ii. Two, 2-hour slots were requested at the March 2022 WG-06 meeting to continue review before Letter Ballot. WG-31 would like to claim any extra sessions that may become available.
- iii. **Action:** Shayna will coordinate a 1- or 2-hour call in the next few weeks.

d. Supplement 213: Second Generation Radiotherapy – Enhanced RT Image and Acquisition Instruction (WG-07)

- i. Christof Schadt, Jim Percy, and Uli Busch led the group in a review of Supplement 213 in preparation for Letter Ballot. The group picked up with their line-by-line review of the draft since the November 2021 WG-06 meeting and will continue

with this review at the March WG-06 meeting.

e. **Supplement 223: Inventory IOD and Related Services (WG-33)**

- i. Harry Solomon led the group through a review of Supplement 223, which has now completed two rounds of Public Comment. All open items and public comments were reviewed and feedback was provided. Sup223 will return to WG-06 in March.

f. **Supplement 224: Service Discovery and Control (WG-23)**

- i. Brian Bialecki continued with the review of Sup224. It will return to WG-06 in March.

g. **Supplement 225: Multi-Fragment Video Transfer Syntax (WG-04)**

- i. Bill Wallace presented Supplement 225 in preparation for Final Text. The group reviewed the entire document but David Clunie was not present so it was tentatively approved for Final Text pending David's final review.
- ii. *Kevin O'Donnell made a motion to approve Supplement 225 for Final Text. Rob Horn seconded the motion. The motion was approved.*

DECISION: Supplement 225 on Multi-Fragment Video Transfer Syntax was approved for Final Text pending a final review from David Clunie.

h. **Supplement 228: DICOMweb 3D Rendering (WG-27)**

- i. Steve Nichols presented Supplement 228 on DICOMweb 3D Rendering in preparation for Public Comment where he left off at the November 2021 WG-06 meeting. The group provided feedback which Steve will incorporate, and he will let Shayna and Björn know when it is ready to return to WG-06.

5. Deadlines for action items from this meeting

- a. Items ready for **Public Comment** must be submitted to Shayna by **January 26, 2022**. PC review and voting window: Jan 28 - Mar 14, 2022.
- b. Items ready for **Letter Ballot** should be submitted to Shayna by **January 19, 2022**. LB review and voting window: Jan 26 - Mar 16, 2022.

6. Upcoming WG-06 Meetings

a. **Next meeting:**

- i. March 21-25, 2022
 1. The agenda plan will be posted in the March 2022 meeting folder.
 2. Tentatively planning for a face-to-face meeting.
 3. **Action:** Shayna will send out the calendar appointment for this meeting and reserve a conference room at NEMA HQ.

b. **2022 meetings**

- i. June 20-24, 2022

- ii. September 12-16, 2022
- iii. November 14-18, 2022

c. 2023 meetings

- i. January 9-13, 2023
- ii. March 20-24, 2023
- iii. June 19-23, 2023
- iv. August 28-September 1, 2023
- v. November 6-10, 2023

7. Old/New Business

- a. None at this time.

8. Adjournment

- a. The January 2022 WG-06 virtual meeting was adjourned at 12:36pm US EST on Friday, January 14, 2022.

9. Meeting Participants

Voting Members Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
ACR	Brian Bialecki	Voting	X	X		X	X
Agfa	Paul Seifert	Voting	X	X	X	X	X
Canon Medical Systems USA	Kevin O'Donnell	Voting	X	X	X	X	X
Fairhaven Technologies	Robert Horn	Voting	X	X	X	X	X
GE Healthcare	Steven Nichols	Voting	X	X	X	X	X
JIRA	Akihiro Yomoda	Alt. Voting	X	X	X	X	X
MITA/NEMA	Shayna Knazik	Voting	X	X	X	X	X
Philips	Wim Corbijn	Voting	X	X	X	X	X

PixelMed Publishing	David Clunie	Voting	X	X	X	X	X
Siemens Healthineers	Björn Nolte	Voting	X	X	X	X	X
Voting Members Absent							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
ACR	Brian Bialecki	Voting			X		
Carl Zeiss Meditec AG	Régis Deshayes	Voting	X	X	X	X	X
CIMICS	Bryan Fan	Voting	X	X	X	X	X
JIRA	Shinichi Nakano	Voting	X	X	X	X	X
Konica Minolta Healthcare Americas	Michael Laconti	Voting	X	X	X	X	X
Others Present (Alternate Voting and Observers)							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
Agfa	Bruce Laffin	Obs.	X		X		
Brainlab	Christof Schadt	Obs.	X	X	X		X
Canon Medical Systems Europe	Peter Splinter	Obs.	X				X
Canon Medical Systems USA	Jonathan Whitby	Obs.				X	
CSImed	Uwe Tronnier	Obs.	X	X	X		
DICOM Usergroup Austria	Silvia Winkler	Obs.	X	X			
Elekta	Jim Percy	Obs.		X			X
Fraunhofer Heinrich Hertz Institute	Jean-Claude Rosenthal	Obs.			X		

GE Healthcare	Hervé Hoehn	Obs.	X		X		
GE Healthcare	Chris Lindop	Obs.	X	X	X	X	X
GE Healthcare	Jouke Numan	Obs.		X	X		
ICCAS	Richard Bieck	Obs.			X		
ICT Group	Toine Van Wijk	Obs.	X	X	X		
Individual	Heinz Blendinger	Obs.	X	X			
Individual	Ulrich Busch	Obs.	X	X	X		X
iThera Medical	Stefan Morscher	Obs.				X	
Laitek	Harry Solomon	Obs.	X		X		
Medical University of Vienna	Philipp Tschandl	Obs.			X		
MITA/NEMA	Carolyn Hull	Alt. Voting	X		X	X	
Philips	Yogalakshmi Selvarajan	Obs.			X		
Philips	Khaled Younis	Obs.				X	
Radical Imaging	Bill Wallace	Obs.	X	X		X	
Seno Medical	Allison Bertrand	Obs.	X	X		X	
Seno Medical	Bryan Clingman	Obs.				X	
Siemens Healthineers	Antje Schroeder	Obs.	X		X		
University College London	Ben Cox	Obs.				X	
University of Queensland	Liam Caffery	Obs.			X		
VISUS	Marc Kaemmerer	Obs.			X		

Prepared and submitted by Shayna Knazik
Reviewed by Counsel 2/14/22