

MINUTES

DICOM WG-06 Base Standard

January 8-12, 2024
Hybrid (Face-to-Face & Remote) Meeting

Location:	NEMA, 1300 17 th Street N, Arlington, Virginia, USA
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-124 was approved for Final Text as amended (12 CPs), with the exception of CP-2220.
- CPack-125 was approved for Letter Ballot (26 CPs).
- Supplement 234: DICOMweb Storage Commitment Service was approved for Final Text as amended.
- Supplement 240: Heightmap Segmentation and Revised Ophthalmic OCT En Face Image was approved for Public Comment as amended.
- Supplement 243: Label Map Segmentation was approved for Public Comment as amended.
- A new Supplement on Frame Deflate Transfer Syntax was presented for First Read and assigned the number 244.
- A new Supplement on RDSR Informative Annex was presented for First Read and assigned the number 245.

1. Administrative

- a. The WG-06 Hybrid Face-to-Face & Remote Meeting was called to order on Monday, January 8, 2024 at 8:31am US Eastern Standard Time.
- b. Antitrust and patent statement was reviewed: 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 2023 WG-06 meeting were reviewed and approved without objection or abstention.

2. Report on Letter Ballots

DSC Ballot	Ballot closed on	Approve	Disapprove	Abstain	Comments
CPack-124	January 4, 2024	16	1 (CP-2220)	1	10

a. CPack-124

- The official ballot was distributed to voting members of the DICOM Standard Committee on November 30, 2023 and closed on January 4, 2024. CPack-124 included the following Change Proposals (13 CPs).

CP #	Title
CP-1636	Examples of Specific Character Set in Worklist
CP-2220	Differentiate acquisition techniques for RT 3D CBCT imaging
CP-2269	Clarify matching multiple values
CP-2285	Harmonize description of Directory Records and clarify their applicability
CP-2287	Update mammography dose reference point code meaning
CP-2288	Description of DateTime entries in TABLE content items for Enhanced RDSR
CP-2296	Extend RT Structure Set Definitions
CP-2301	Clarify applicability of RLE and JPEG 2000 Transfer Syntax to single bit images such as binary segmentations
CP-2302	Clarify absence of padding between frames applies to single BitsStored multi-frame images encoded in Native format
CP-2303	Clarify Frame Pixel Data Retrieve Response for single BitsStored multi-frame images encoded in Native format
CP-2304	Use the Group Number term correctly
CP-2309	Add channel obstruction to Treatment Termination reasons
CP-2310	Wording improvement for C.8.8.5.4 and use of Study in RTSS references

- CP-2220 requires further discussion between WG-07 and WG-21 will return to WG-06 at the March 2024 meeting.
 - **Action:** Shayna will add this to the next WG-21 agenda and send the calendar appointment to WG-07.

- *David Clunie made a motion to approve CPack-124 for Final Text as amended with the exception of CP-2220. Kevin O'Donnell seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-124 was approved for Final Text as amended (12 CPs), with the exception of CP-2220.

b. CPack-125 Letter Ballot

CP #	Title
CP-2289	Update to TID 10048 Radiation Output Description
CP-2305	Clarify Matching of Key Attributes with a VR of IS or DS
CP-2306	Fix inconsistencies regarding "Status"-related terms
CP-2308	Clarify Creator Digital Signature Profile
CP-2311	Make Camellia support optional
CP-2312	Address change to BCP-195
CP-2313	Correct Reference in Row 34e of TID 10013
CP-2314	Clarify units of Vector Grid Data
CP-2316	Include reference to DICOM Conformance Statement (DCS) into Annex N PS3.2
CP-2317	Duplicate RP definition in RDSR
CP-2318	Cassette-Based X-Ray Total DAP
CP-2320	Communication that data is synthetic
CP-2321	Add a code for Intraoperative Transducer to CID 12035
CP-2324	Add information about Vertex Distance to refraction correction parameters
CP-2325	Correct DICOMDIR sample in table A.1-1
CP-2326	Former existing coded-concept (F-10440,SRT,"Erect") in legacy data missing
CP-2327	Inconsistency (113930,DCM,Size Specific Dose Estimate)
CP-2328	Deidentification of Patient ID in Patient Group Macro
CP-2329	Extend histology and microscopy imaging procedure protocol codes
CP-2330	Add Spatial Information to Secondary Capture IOD
CP-2331	Clarify Segment scan order for TILED_FULL
CP-2334	Add [18F]DCFPyL (Piflufolastat) PSMA PET radiopharmaceutical
CP-2335	Clinical Trial Identifiers need Issuers and may be multiple
CP-2345	Add Requirement for Selected Frames in Sparse MF Module
CP-2348	Replace the terms Operations Statement and Notifications Statement
CP-2354	Clarify lack of versioning of Character Sets including GB18030

- *David Clunie made a motion to approve CPack-125 for Letter Ballot. Björn Nolte seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-125 was approved for Letter Ballot (26 CPs).

3. Report on Change Proposals

a. New CPs

Submitted file name	Title	New CP #
cp_dac641	Add derived measures of similarity for ROIs	CP-2382
cp_hb_correct	Value Set Constraint of row 8 to 10 within TID10001 has to be changed from CID 230 Yes-No to CID 231 Yes-No Only	CP-2383
cp_jr43	Change name of Status Code 0107H to clarify it is a Warning	CP-2384
cp_jr44	Fix inconsistent names of Transfer Syntaxes	CP-2385
cp_vanWijk	Correction of PS3.2 Conformance template concerning Status codes Action: Shayna will send this to WG-31 for review	CP-2386
cp-sw	New Context Group for Waveform Modalities	CP-2387

b. Assigned CPs

The following CPs were reviewed and decisions reached as shown. Action: Shayna will arrange for a WG-06 CP in mid-late February

Note: Please upload the VP version (candidates for the CPack-126/March 2024 Voting Packet) in the [March 2024 meeting folder](#).

CP #	Title	Decision
CP-1978	Restore presentation state retrieval to PS3.18	Moved to March 2024 Voting Packet
CP-2295	<i>KVP attribute in CT Image Module may also be filled in MultiEnergy case</i>	<i>Remains assigned</i> Action: Shayna will put this on the WG-21 and WG-28 agendas.
CP-2307	Rationalize and extend codes and strings for filter material	Moved to March 2024 Voting Packet
CP-2319	<i>Enable multiple dose reference points in TIDs 10004 and 10007 & clarify conditions in TID 10007</i>	<i>Remains assigned</i>
CP-2338	<i>Add Antral Follicle Counts to OB/GYN SR</i>	<i>Remains assigned</i>
CP-2341	<i>Add reference to Series in UPS Scheduled and Performed Procedure Information Modules</i>	<i>Remains assigned</i>

4. Report on Supplements

NOTE: All documents are uploaded to the meeting folder on the FTP server in the WG-06 directory. Please refer to those documents for more technical details. Contact the

Secretariat for help accessing the FTP.

a. **New Supplement on Frame Deflate Transfer Syntax (WG-04)**

- David Clunie led the group through a First Read of a new Supplement on Frame Deflate Transfer Syntax, pursuant to Work Item 2023-10-A.
- *Kevin O'Donnell moved to assign this Supplement a number and Wim Corbijn seconded the motion.*
- **DECISION:** A new Supplement on Frame Deflate Transfer Syntax was presented for First Read and assigned the number 244.
- Sup244 will return to WG-06 in March 2024 in preparation for Public Comment.

b. **New Supplement on RDSR Informative Annex (WG-02/28)**

- Francisco Sureda and Nick Bevins led the group through a First Read of a new Supplement on RDSR New Informative Annex, pursuant to Work Items 2004-04-C Radiation Dose SR and 2015-12-D Cone Beam CT-RDSR.
- *Kevin O'Donnell moved to assign this Supplement a number and Wim Corbijn seconded the motion.*
- **DECISION:** A new Supplement on RDSR Informative Annex was presented for First Read and assigned the number 245.

c. **Supplement 228: DICOMweb API for Server Volumetric Rendering (WG-27)**

- Steve Nichols presented Supplement 228: DICOMweb API for Server Volumetric Rendering in preparation for Letter Ballot, along with a PowerPoint presentation.
- Supplement 228 will return to WG-27 for further discussion and then back to WG-06 in March 2024.

d. **Supplement 233: Patient Model Gender Enhancements (WG-06 Ad Hoc on Gender and Sex Encoding)**

- Rob Horn presented Supplement 233: Patient Model Gender Enhancements in preparation for Public Comment.
- Sup233 will return to WG-06 in March 2024.
- The current draft is available here: <https://github.com/rjhorniii/dicom-sup233-wip>

e. **Supplement 234: DICOMweb Storage Commitment Service (WG-27)**

- Jeroen Medema and Dieter Krotz led the group through review of Supplement 234 on DICOMweb Storage Commitment Service in preparation for Final Text. The group reviewed the accompanying PowerPoint, all Letter Ballot comments received, and all Supplement Checklist items were reviewed.
 - *Kevin O'Donnell moved to approve for Supplement 234 for Final Text as amended. The motion was seconded by Wim Corbijn. The motion was approved without objection or abstention.*
 - **DECISION:** Supplement 234: DICOMweb Storage Commitment Service was approved for Final Text as amended.
- f. **Supplement 236: Structured Display for DICOM Waveforms (WG-32)**
- Silvia Winkler briefly presented Supplement 236 on Structured Display for DICOM Waveforms and the accompanying PowerPoint presentation in preparation for Public Comment.
 - This Supplement will return to WG-06 in March 2024.
- g. **Supplement 240: Heightmap Segmentation and Revised Ophthalmic OCT En Face Image (WG-09)**
- Harry Solomon presented Supplement 240 on Heightmap Segmentation and Revised Ophthalmic OCT En Face Image in preparation for Public Comment. The draft document, PowerPoint, and Supplement Checklist were reviewed.
 - *Kevin O'Donnell moved to approve for Supplement 240 for Public Comment as amended. The motion was seconded by Wim Corbijn. The motion was approved without objection or abstention.*
 - **DECISION:** Supplement 240: Heightmap Segmentation and Revised Ophthalmic OCT En Face Image was approved for Public Comment as amended.
- h. **Supplement 241: Structural Heart Procedural SR Template (WG-01/WG-12)**
- Steve Nichols presented Supplement 241 on Structural Heart SR Template for in preparation for Public Comment. It will return to WG-06 in March 2024.
- i. **Supplement 242: Ultrasound Fetal Cardiac Structured Report Extensions (WG-01/12)**

- Kevin O'Donnell presented Supplement 242 on Ultrasound Fetal Cardiac Structured Report Extensions in preparation for Public Comment. It will return to WG-06 in March 2024 with two, 1-hour slots.

j. **Supplement 243: Label Map Segmentation (WG-06)**

- David Clunie presented Supplement 243 on Label Map Segmentation in preparation for Public Comment. The PowerPoint and draft document were reviewed, as well as the Supplement Checklist.
- *David Clunie moved to approve the Supplement for Public Comment as amended and Kevin O'Donnell seconded the motion.*
- **DECISION:** Supplement 243: Label Map Segmentation was approved for Public Comment as amended.

5. **WG-20/HL7 Report**

- a. Jonathan Whitby and Brian Bialecki presented updates from the DICOM WG-20/HL7 II group. For details on this report, Jonathan's PowerPoint can be accessed in this meeting's folder on the FTP.
- b. Meeting cadence: January (virtual only), May (in person only) and September (in person only).
- c. FHIR Release 6 publication is still aiming for mid-to-late 2024. WG-20/HL7 II is working to get ImagingStudy and ImagingSelection ready.
- d. The DICOM SR to FHIR Observation Mapping draft is nearly complete and is now on track to be balloted in May 2024.
- e. WG-20/HL7 will return to WG-06 in March 2024.
- f. Imaging ServiceRequest Profile
 - This IG Proposal profiles critical resources associated with ServiceRequest and maps FHIR resources to DICOM MWL C-FIND information model. Project Scope Statement (<https://jira.hl7.org/browse/PSS-2135>)
 - In order to continue with the joint DICOM/IHE copyright, they have requested a letter from the NEMA General Counsel. When this was discussed with DICOM leadership, they concluded that this effort is allowed because the group producing the IG, WG-20/HL7, is a functioning Working Group within DICOM. Additionally, it was noted that this is covered under the current MOU anyways. However, they'd like to clarify the sentence about sales/language about who is allowed to sell and give what to be clarified that this document should follow the usually DICOM rule that access is "always" free.

- **Action:** Shayna will email the NEMA General Counsel and copy David.

6. Deadlines for action items from this meeting

- a. For any supplements going out for comment/ballot that are also on the agenda for next meeting, the comment/ballot window of 5 weeks results in the following deadlines. Note to authors: please submit earlier if you want any time to resolve comments prior to the next WG-06 meeting.
 - Submit **Public Comment** drafts to Shayna by **January 29, 2024**.
 - Submit **Letter Ballot** drafts to Shayna by **January 22, 2024**.

7. WG-06 Meeting Schedule

- a. Next meeting:
 - March 18-22, 2024
- b. **2024 meetings:**
 - January 8-12, 2024
 - March 18-22, 2024
 - **May 27-31, 2024** -*This meeting was moved from June 3-7, 2024*
 - **Action:** Shayna will update the calendar appointment and meeting room reservation accordingly.
 - **August 19-23, 2024** -*This meeting was moved from August 26-30, 2024*
 - November 4-8, 2024
- c. **2025 meetings:**
 - January 13-17, 2025
 - March 24-28, 2025
 - June 16-20, 2025
 - September 1-5, 2025
 - November 3-7, 2025
 - **Action:** Shayna will add 2025 meeting dates to the DICOM and HIT calendars.

8. Old/New Business

- None at this time

9. Adjournment

- a. The meeting was adjourned at 10:51am on Friday, January 12, 2024.

10. Meeting Participants

Voting Members Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
ACR	Brian Bialecki	Voting		X	X	X	
Canon Medical Systems USA	Kevin O'Donnell	Voting	X	X	X	X	X
Carl Zeiss Meditec	Detlev Hohmeier	Voting	X		X	X	
Fairhaven Technologies	Rob Horn	Voting	X	X	X	X	X
GE Healthcare	Steve 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
AAPM/University of Arkansas for Medical Sciences	Lawrence Tarbox	Voting	X	X	X	X	
ACR	Brian Bialecki	Voting	X				X
Carl Zeiss Meditec	Detlev Hohmeier	Voting		X			X
CIMICS	Bryan Fan	Voting	X	X	X	X	X

Self	Paul Seifert	Voting	X	X	X	X	X
Observers and Alternate Voting Members Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
AAPM	Nick Bevins	Obs.				X	
American Academy of Ophthalmology	Harry Solomon	Obs.	X				
Brainlab	Christof Schadt	Obs.			X		
Canon Medical Systems USA	Jonathan Whitby	Obs.				X	
Carl Zeiss Meditec	Patrick Nast	Obs.	X		X		
CSImed	Uwe Tronnier	Obs.	X		X	X	
DICOM Usergroup Austria	Silvia Winkler	Obs.	X		X	X	X
Elekta	Jim Percy	Obs.			X	X	
GE Healthcare	Francisco Sureda	Obs.				X	
ICT Group	Toine van Wijk	Obs.	X		X		
JIRA	Kinoshita Masaaki	Obs.			X	X	
Philips	Jeroen Medema	Obs.		X			X
Radical Imaging	Bill Wallace	Obs.	X	X	X		
Self	Ulrich Busch	Obs.			X	X	
Seno Medical	Allison Bertrand	Obs.				X	
Siemens Healthineers	Dieter Krotz	Obs.		X			
Siemens Healthineers	Ingo Wilkening	Obs.	X		X		