

MINUTES

DICOM WG-06 Base Standard

March 24-28, 2025
Hybrid (Face-to-Face & Remote) Meeting

Location: NEMA HQ - Arlington, Virginia

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

DICOM Secretariat: Shayna Knazik, NEMA/MITA

Summary of decisions from this meeting

- CPack-130 was approved for Final Text amended as discussed, with the exclusion of CP-2452.
- CPack-131 was approved for Letter Ballot (8 CPs).
- Supplement 233: Patient Model Gender Enhancements was approved for Final Text amended as discussed.
- Supplement 241: Structural Heart SR Template was approved for Final Text amended as discussed.
- Supplement 246: DICOMweb Modality Services was approved for Public Comment amended as discussed.
- Supplement 247: Eyecare Measurement Templates was approved for Letter Ballot amended as discussed.

1. Administrative

- a. The WG-06 Hybrid Face-to-Face & Remote Meeting was called to order on Monday, March 24, 2025, at 8:38am US EDT.
- b. Staff reminded members of the [DICOM Patent Disclosure Policy](#) and [guidelines for conducting NEMA meetings](#).
- c. The agenda was reviewed.

- d. The minutes from the January 2025 WG-06 meeting were reviewed and approved without objection or abstention.

2. Report on Letter Ballots

DSC Ballot	Ballot Closed	Approve	Disapprove	Abstain	Comments
CPack-130	March 13, 2025	18	0	1	10

a. CPack-130

- The official ballot was distributed to voting members of the DICOM Standard Committee on February 6, 2025 and closed on March 13, 2025.
- CPack-130 included the following Change Proposals (23 CPs):

CP #	Title
CP-1570	Add dental visible light acquisition context information
CP-2340	Specify DICOMWeb security for conformance
CP-2409	Multiple Inconsistencies of DCM CodeMeanings in PS3.16 table D-1 versus CIDs
CP-2421	Fix inconsistent spelling and use of terms in Part 4
CP-2425	Generalize CTDI phantom options
CP-2433	Correct PS 3.3 section C.20.3.1.3 Vector Grid Data memory layout
CP-2434	Add new IOL calculation formulas to Part16 CID 4236
CP-2436	Inconsistency in reference to RT Structure Sets for Planar ROI in TID 1410
CP-2437	Various Context Group corrections
CP-2438	Update DICOM to reflect changes in IHTSDO SNOMED CT-DICOM Subset for JUL 2024 INT Release
CP-2439	Update DICOM to reflect changes in SNOMED Imaging Procedures
CP-2441	Remove the word 'codes' from diagrams
CP-2442	Harmonize the meaning of Failure Reasons
CP-2443	Add missing details to the definition of Template tables
CP-2447	Pregnancy Status correct mismatch of VR and defined terms
CP-2448	Update extensibility and order significance of several Waveform SR Templates
CP-2450	Remove Table 10.41-1 from X-Ray Image Modules
CP-2451	Add Attending Physician to Visit Admission Module
CP-2452	Add Estimated Delivery Date to TID-5008
CP-2453	Add FHIR canonical for DICOM UID Registry
CP-2454	Correct Studies Service tables in PS3.2 and PS3.18
CP-2455	Ethnic Group SH VR too short

CP-2456	General handling of known safe private data elements within private sequences
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- CP-2452 was withheld from the Final Text vote as it requires further work in WG-12 Ultrasound.
- *MOTION: David Clunie made a motion to approve CPack-130 for Final Text as amended with the exclusion of CP-2452. Laura Peters seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-130 was approved for Final Text amended as discussed, with the exclusion of CP-2452.

b. CPack-131 Letter Ballot

CP #	Title
CP-2427	Add RT specific plan approvals
CP-2445	Add State of Definition to RT Structure Set
CP-2457	Add more neurodegenerative PET radiopharmaceuticals
CP-2458	De-identification of Group 0004 data elements and DICOMDIR
CP-2459	More data elements to de-identify
CP-2460	Add more CID 4031 Common Anatomic Region concepts
CP-2466	Remove footnotes from Relationship Content Constraints tables
CP-2468	Clarification of UN Usage in RT Objects

- *MOTION: David Clunie made a motion to approve CPack-131 for Letter Ballot. Wim Corbijn seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-131 was approved for Letter Ballot (8 CPs).

3. Report on Change Proposals (CPs)

a. New CPs

Submitted file	Title	New CP #	Assigned to
cp-sw	De-identify waveform labels and names	CP-2511	David Clunie
cpKE_Add	Add Radiopharacuticals	CP-2512	Steve Nichols
cpSJM_clarify	Clarify Archive in Conformance Statement	CP-2513	Bruno Laffin
cp_Photometric	Photometric Interpretation Compatibility	CP-2514	David Clunie
cp_RT267	Correct Code Meaning for Backrest Pitch Angle, Shin Rest Position and Heel Stop Position	CP-2515	Christof Schadt

cp_RT268	Add Reference to Treatment Records in RT Beams Delivery Instructions	CP-2516	Christof Schadt
cp_RT270	Add new codes to RT Dose Derivation CID	CP-2517	Christof Schadt
cp_Remove	Remove Specific Character Set from JSON/XML	CP-2518	Steve Nichols
cp_dac675	Clarify concepts for thoracic cavity, thorax and chest	CP-2519	David Clunie
cp_dac676	Clarify single frame WSI	CP-2520	David Clunie
cp_jm29	Add 2C to the Behavior of DICOMweb UPS Search	CP-2521	Wim Corbijn
cp_jm30	Define Quotation Mark	CP-2522	David Clunie
cp_jm31	Make lists of VRs that may have an Undefined Length consistent	CP-2523	David Clunie
cp_jm32	Update (references to) (some) obsoleted RFCs	CP-2524	Steve Nichols
cp_jm33	Describe payload consistently in message syntax	CP-2525	Steve Nichols
cp_jm34	Clarify use of Undefined Lengths for VRs	--	<i>Rejected – Combined with CP-2523</i>
cp_jr58	Harmonize capitalization of Data Element Types	CP-2526	David Clunie
cp_jr59	Consistently use defined terms "Bulk Data" and "Bulk Data URI" in PS3.18	CP-2527	David Clunie
cp_jr60	Add missing Attributes to Scheduled/Performed Protocol Code Sequence in MPPS tables	CP-2528	David Clunie
cp_jr61	Clarify definition of Pixel Aspect Ratio and Presentation Pixel Aspect Ratio	CP-2529	David Clunie
cp_jr62	Fix various inconsistencies in the Audit Trail Message Format Profile	CP-2530	Rob Horn
cp_wg21_Make	Harmonize description of Exposure Modulation Type Attribute	CP-2531	Björn Nolte
cp_wg21_Mark	Communicating constraints/cautions on diagnostic usage of image	CP-2532	Kevin O'Donnell
cp_IW	Coding Schemes have wrong UIDs	CP-2533	David Clunie
cp_kod_UL-BIRADS	Update TID 4200 for BIRADS 5th Edition - Ultrasound	CP-2534	Kevin O'Donnell
cp_kod_UL-Fetal	<i>Add Fetal Anatomy Survey section to UL SR</i>	--	<i>Rejected – Kevin O'Donnell will create a work item and supplement</i>
cp_RT269	Add new defined terms for Dose Summation Type to RT Rose Module	CP-2535	Christof Schadt

Created from CP-2505	Unified Procedure Step Matching Requirement Clarifications	CP-2536	Christof Schadt
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b. Assigned CPs

The following CPs were reviewed and decisions reached as shown. Note: Please upload the VP version (candidates for the June 2025 Voting Packet/CPack-132) to the [June 2025 meeting folder](#).

CP #	Title	Decision
CP-1982	<i>Add mechanism for handling sensitive images</i>	<i>Remains assigned</i>
CP-2428	Add Algorithm Identification to RT Dose Module	Moved to June 2025 Voting Packet
CP-2444	Add code for Main Pulmonary Artery Vmax	Moved to June 2025 Voting Packet
CP-2449	Add Description to TID 10002 Row 18	Moved to June 2025 Voting Packet
CP-2461	Add rows to intended use of dose calibration in RDSR	Moved to June 2025 Voting Packet
CP-2462	<i>Harmonize definition of MPPS Retrieve SOP Class with MPPS SOP Class</i>	<i>Remains assigned</i>
CP-2464	Clarify empty Value in multi-valued Data Element	Moved to June 2025 Voting Packet
CP-2465	<i>Unclear constraints on measurement units for Real World Value Mapping</i>	<i>Remains assigned</i>
CP-2467	Add sub-template for UL Attenuation Imaging (ATI) measurements	Moved to June 2025 Voting Packet
CP-2469	Salvage Details in RT Treatment Record and RT Ion Treatment Record	Moved to June 2025 Voting Packet
CP-2470	Add organ dose ref authorities and attenuator categories, materials	Moved to June 2025 Voting Packet
CP-2471	Correct Shared FG SQ description and inconsistencies	Moved to June 2025 Voting Packet
CP-2472	Add Related Fields column to C-FIND SCP Status Codes in PS3.2	Moved to June 2025 Voting Packet
CP-2473	<i>Clarify HTTP response codes for zero result in Search Transaction</i>	<i>Remains assigned</i>
CP-2474	Add more standard color spaces	Moved to June 2025 Voting Packet
CP-2475	Add Indications to additional Ultrasound SR Templates	Moved to June 2025 Voting Packet
CP-2476	<i>Handling of Coded Concepts retired from DICOM use</i>	<i>Remains assigned</i>
CP-2477	<i>Fix Requirement Type Final State Cells</i>	<i>Remains assigned</i>

CP-2478	Clarify when what columns are relevant	Moved to June 2025 Voting Packet
CP-2479	<i>Correct and clarify Segmented Palette Color Lookup Table Data description</i>	<i>Remains assigned</i>
CP-2480	Clarify application/octet-stream can only contained uncompressed data	Moved to June 2025 Voting Packet
CP-2481	Clarify odd number of 8-bit palette color LUT entries	Moved to June 2025 Voting Packet
CP-2482	Correct inclusion of TID 300 with additional rows	Moved to June 2025 Voting Packet
CP-2483	Correct duplicate rows in TID 3913 Aneurysm Properties	Moved to June 2025 Voting Packet
CP-2484	Analysis Peformed content item in TID 3905 should have HAS CONCEPT MOD relationship with Finding parent	Moved to June 2025 Voting Packet
CP-2485	Finding Site content item in TID 3925 should have HAS CONCEPT MOD relationship with Finding parent	Moved to June 2025 Voting Packet
CP-2486	Children of CODE Late Contrast Enhancement in TID 3926 Myocardial Perfusion Analysis have illegal HAS ACQ CONTEXT Relationship	Moved to June 2025 Voting Packet
CP-2487	Clarify de-identification of Requesting Service	Moved to June 2025 Voting Packet
CP-2488	Replace DCM code for Margin with SCT code	Moved to June 2025 Voting Packet
CP-2489	Add anatomic concepts for middle and inner ear	Moved to June 2025 Voting Packet
CP-2490	<i>Changes from Sup190 are not fully reflected in PS3.17 samples</i>	<i>Remains assigned</i>
CP-2491	Clarification of inconsistent values of Pixel Presentation	Moved to June 2025 Voting Packet
CP-2492	PS3.3 10.40.1 correct reference to non-existing TID 175001	Moved to June 2025 Voting Packet
CP-2493	Add missing abbreviation "RDSR" to various Parts	Moved to June 2025 Voting Packet
CP-2494	<i>Include TID 1002 in TID 3700 with correct Relationship Type</i>	<i>Remains assigned</i>
CP-2495	Add missing references to retired definitions	Moved to June 2025 Voting Packet
CP-2496	Clarify Concatenation Shared Functional Groups and Instance Creation Date	Moved to June 2025 Voting Packet
CP-2497	<i>Clarify Normalized Support terminology</i>	<i>Remains assigned</i>
CP-2501	Add More Fetal Cardiac Codes	Moved to June 2025 Voting Packet

CP-2502	Add Clinical Fraction Number to RT Treatment Summary Record Module	Moved to June 2025 Voting Packet
CP-2503	Add Dose Value to Dose Calibration Conditions	Moved to June 2025 Voting Packet
CP-2504	Add Scan Spot Gantry and Patient Support Angle to Ion Beam Record	Moved to June 2025 Voting Packet
CP-2505	Unified Procedure Step and Machine Verification Services Clarifications	Moved to June 2025 Voting Packet

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. Supplement 233: Patient Model Gender Enhancements (WG-06)

- Rob Horn presented Supplement 233: Patient Model Gender Enhancements in preparation for Final Text. The group reviewed the Letter Ballot comments received, draft document, PowerPoint, and Supplement Checklist as well as an associated Change Proposal, CP-2497.
- The current draft is available here: <https://github.com/rjhorniii/dicom-sup233-wip>
- *MOTION: Björn Nolte moved to approve Supplement 233 for Final Text as amended, and Rob Horn seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 233: Patient Model Gender Enhancements was approved for Final Text amended as discussed.

b. Supplement 241: Structural Heart Procedural SR Template (WG-01/WG-12)

- Steve Nichols presented Supplement 241: Structural Heart SR Template for in preparation for Final Text. The PowerPoint, draft supplement, and Supplement Checklist were reviewed.
- *MOTION: Kevin O'Donnell moved to approve Supplement 241 for Final Text amended as discussed. The motion was seconded by Björn Nolte. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 241: Structural Heart SR Template was approved for Final Text amended as discussed.

c. Supplement 245: RDSR Informative Annex (WG-28)

- Nick Bevins and Francisco Sureda presented Supplement 245: RDSR Informative Annex in preparation for Public Comment. The group reviewed changes since their last visit in January 2025.
- Supplement 245 will return to WG-06 for two, 2-hour slots in June 2025, where they hope to get this out for Public Comment.

d. **Supplement 246: DICOMweb Modality Services (WG-27)**

- Jeroen Medema and Dieter Krotz presented Supplement 246: DICOMweb Modality Services in preparation for Public Comment. The draft document, accompanying PowerPoint, and the Supplement Checklist were reviewed.
- At the January 2025 meeting, it was decided not to base these services on UPS-RS, but create new modality workflow services instead.
- *MOTION: Wim Corbijn moved to approve Supplement 246 for Public Comment as amended and Steve Nichols seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 246: DICOMweb Modality Services was approved for Public Comment amended as discussed.

e. **Supplement 247: Eyecare Measurement Templates (WG-09)**

- Harry Solomon presented Supplement 247: Eyecare Measurement Templates in preparation for Letter Ballot. The draft document, PowerPoint, and Supplement Checklist were reviewed.
- *MOTION: Rob Horn moved to approve Supplement 247 for Letter Ballot as amended and Steve Nichols seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 247: Eyecare Measurement Templates was approved for Letter Ballot amended as discussed.

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

- a. Jonathan Whitby and Brian Bialecki led the group through a thorough review of the Resource ImagingStudy, which can be found here:
<https://confluence.hl7.org/spaces/IMIN/pages/325460695/DICOM+WG-06+Review+---+March+2025>
- b. Confluence Page: <https://confluence.hl7.org/display/IMIN/>

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 **Letter Ballot** drafts to Shayna by **April 21, 2025**.
 - Submit **Public Comment** drafts to Shayna by **April 28, 2025**.

7. WG-06 Meeting Schedule

- a. **2025 meetings:**
 - June 16-20, 2025: Bravis Hospital, Boerhaavelaan 25, 4708 AE Roosendaal, Netherlands. Thank you to Laura Peters for arranging!
 - **Action:** Shayna will update the calendar appointment to reflect the new location.
 - September 1-5, 2025: NEMA HQ
 - November 3-7, 2025: NEMA HQ

8. Old/New Business

- None at this time.

9. Adjournment

- a. The meeting was adjourned at 10:15am on Friday, March 28, 2025.

10. Meeting Participants

Voting Members Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
ACR	Brian Bialecki	Voting	X			X	
Agfa HealthCare	Laura Peters	Voting	X	X	X	X	X
Canon Medical Systems USA	Kevin O'Donnell	Voting	X	X	X	X	X
Carl Zeiss Meditec	David Flade	Alt. Voting	X			X	
Fairhaven Technologies	Rob Horn	Voting	X	X	X	X	

GE HealthCare	Steve Nichols	Voting	X	X	X	X	X
JIRA	Akihiro Yomoda	Alt. Voting	X	X	X	X	X
NEMA/MITA	Shayna Knazik	Voting	X	X	X	X	X
Philips	Wim Corbijn	Voting	X	X	X	X	X
Philips	Jeroen Medema	Alt. Voting		X		X	X
PixelMed Publishing	David Clunie	Voting	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	X		X
Carl Zeiss Meditec	David Flade	Alt. Voting		X	X		X
Carl Zeiss Meditec	Detlev Hohmeier	Voting	X	X	X	X	X
Cincinnati Children's Hospital	Stephen Clark	Voting	X	X	X	X	X
Fairhaven Technologies	Rob Horn	Voting					X
PixelMed Publishing	David Clunie	Voting					X
Observers Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
AAPM	Nick Bevins	Obs.			X	X	

American Academy of Ophthalmology	Harry Solomon	Obs.	X			X	
Brainlab	Christof Schadt	Obs.				X	
Canon Medical Systems USA	Jonathan Whitby	Obs.		X	X	X	
Carl Zeiss Meditec	Patrick Nast	Obs.	X				
CSImed	Uwe Tronnier	Obs.	X	X	X	X	X
Epic Systems	Griffin Fairchok	Obs.		X		X	
GE HealthCare	Francisco Sureda	Obs.			X		
JIRA	Kinoshita Go	Obs.	X	X	X	X	X
Philips	Ana Kostadinovska	Obs.		X		X	
Self	Heinz Blendinger	Obs.	X		X		
Self	Ulrich Busch	Obs.	X		X	X	
Siemens Healthineers	Dieter Krotz	Obs.		X			X
Siemens Healthineers	Ingo Wilkening	Obs.	X	X	X	X	X

Prepared and submitted by Shayna Knazik
Reviewed by Karin Moore 5/14/2025