

MINUTES

DICOM WG-06 Base Standard

January 16-20, 2023
Hybrid (Face2Face & Remote) Meeting

Location: NEMA Headquarters, 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-119 was approved for Final Text with 17 Change Proposals (CPs)
- CPack-120 was approved for Letter Ballot with 6 Change Proposals (CPs)
- Supplement 115: Evidence Document SOP Classes has been cancelled by WG-06 and Björn Nolte will bring this rationale to the DICOM Standard Committee to consider cancellation of its Work Item
- Supplement 182: Curved and Straightened Volumetric Presentation States was approved for cancellation by WG-06 and Björn Nolte will bring this rationale to the DICOM Standard Committee to consider cancellation of its Work Item
- Supplement 229: Photoacoustic Imaging IOD was approved for Letter Ballot
- Supplement 231: Variable Modality LUT Presentation State was approved for Letter Ballot
- Supplement 235: HTJ2K Transfer Syntax was approved for Public Comment

1. Administrative

- a. With a quorum present, the January WG-06 Hybrid Face2Face & Remote Meeting was called to order at 9:02AM US Eastern Standard Time on Monday, January 16, 2023.

- 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 2022 WG-06 meeting were reviewed and approved without objection or abstention.

2. Report on Letter Ballots

DSC Ballot	Approve	Disapprove	Abstain	Comments
CPack-119	17	0	0	3

a. CPack-119

- The official ballot was distributed to voting members of the DICOM Standard Committee on December 5, 2022 and closed on January 9, 2023. CPack-119 included the following Change Proposals (17 CPs):

CP #	Title
CP-2121	Add codes for more gadolinium contrast agents
CP-2218	Add Note in PS3.16 TID 10007 row 3
CP-2234	Remove retired OtherPatientIDs from ProposedStudySequence in Film Session
CP-2235	Deciduous dentition should use structure of not entire concept
CP-2236	Need to be able to select optical path in advanced blending presentation state
CP-2237	Propagate VOI and Palette Color support from blending to advanced blending presentation state
CP-2239	Institution Name is not Issuer of ID
CP-2240	Fix inconsistencies regarding Storage SOP Class names and Related General SOP Classes
CP-2241	Fix wrong reference to XML Schema for syntax of the Native DICOM Model
CP-2243	Add Source-based Reference Point to CID 10025
CP-2244	Clarification for Number of RT Beam Limiting Device Openings
CP-2245	Retire the Robotic Base Location Indicator
CP-2246	Correct Radiotherapy Common Instance Specification
CP-2247	Add Long Label to Ion Beam
CP-2248	Fix discussion of incomplete RT Treatment Fraction
CP-2249	Clarifications of Scan Spot Maps
CP-2250	Update De-Identifier profiles for Source Frame of Reference UID

- *David Clunie made a motion to approve CPack-119 for Final Text as amended. Kevin O'Donnell seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-119 was approved for Final Text as amended (17 CPs).

3. Report on Change Proposals

a. Approved for Final Text post-Letter Ballot: CP-2203 and CP-2219

- *David Clunie made a motion to approve two CP's for Final Text as amended. Kevin O'Donnell seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CP-2203 and CP-2219 were approved for Final Text as amended.

b. New CPs

Submitted file name	Title	New CP #
cp_jr30	Clarify whether zero length Type 3 Sequences are allowed or not	CP-2273
cp_jm15	Correct the description of the storage commitment failure reasons	CP-2274
cp_JSON	JSON Value Representation for Infinity and NaN Floating Point Numbers	CP-2275
cp_RT219	Update Interlock Codes for Ions	CP-2276
CP_RT223	Remove Scan Spot Size from RT Ion Record	CP-2277
cp_kod__Support	Support measurement of multiple amniotic sacs	CP-2278
cp_wc_18	Update text for Dimension Organization in Enhanced US Image Module usage	CP-2279

c. CPack-120 Letter Ballot

CP #	Title
CP-1776	Quote in multipart media type parameter
CP-2255	Add Silver to X-ray Filtration Macro
CP-2262	Add a code for Endocavitary Transducer to CID 12035
CP-2263	RT ROI Interpreted Type Section Clean Up
CP-2264	Add Gen 2 Termination Codes to Gen 1 Treatment Records
CP-2266	Add missing Resources to PS3.18 Annex H

- *David Clunie made a motion to approve CPack-120 for Letter Ballot. Kevin O'Donnell seconded the motion. The motion was approved without objection or abstention.*
- **DECISION:** CPack-120 was approved for Letter Ballot (6 CPs).

d. Assigned CPs

The following CPs were reviewed and decisions reached as shown.

Note: Please upload the VP version (candidates for the CPack-121/March 2023 Voting Package) in the [March 2023 meeting folder](#).

CP #	Title	Decision
CP-1636	<i>Examples of Specific Character Set in Worklist</i>	<i>Remains assigned</i>
CP-1978	<i>Restore presentation state retrieval to PS3.18</i>	<i>Remains assigned</i>
CP-1982	<i>Add mechanism for handling sensitive images</i>	<i>Remains assigned</i>
CP-2204	Restore multipart bulkdata and clarify range requests	Moved to March Voting Packet
CP-2254	<i>Clarify relative URI usage in DICOMweb</i>	<i>Remains assigned</i>
CP-2256	Drop 16-segment model of myocardium	Moved to March Voting Packet
CP-2258	Add place to record date of manufacture of devices	Moved to March Voting Packet
CP-2260	Update DICOM to reflect changes in IHTSDO SNOMED CT-DICOM Subset for JUL 2022 INT Release	Moved to March Voting Packet
CP-2261	Clarify Inventory Production Rules	Moved to March Voting Packet
CP-2267	Correct inconsistencies in Mammography Image Type tables	Moved to March Voting Packet
CP-2268	Update Quantitative Diagnostic Imaging Procedure codes	Moved to March Voting Packet
CP-2271	Add First Gen References to Treatment Preparation IOD	Moved to March Voting Packet
CP-2272	Cleanup ROI Module	Moved to March 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 226: Confocal Microscopy (WG-19)**

- Liam Caffery led the group through the Public Comments received on Supplement 226 and the changes made in response to these comments, in preparation for Letter Ballot. There are two remaining items that need David Clunie's review, so this Supplement will return to WG-06 in March 2023 with a one-hour timeslot.

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

- Steve Nichols presented Supplement 228: DICOMweb API for Server Volumetric Rendering in preparation for Public Comment, along with a PowerPoint presentation of the high-level changes made since the November WG-06 meeting.
- Supplement 228 will return to WG-06 in March, and requests four hours.

c. **Supplement 229: Photoacoustic Imaging IOD (WG-33)**

- Allison Bertrand and Brian Bialecki presented Supplement 229: Photoacoustic Imaging IOD in preparation for Letter Ballot.
- *Kevin O'Donnell moved to approve for Sup229 for Letter Ballot as amended and Wim Corbijn seconded. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 229: Photoacoustic Imaging IOD was approved for Letter Ballot.

d. **Supplement 231: Variable Modality LUT Presentation State (WG-03)**

- Steve Nichols led the group through review of Supplement 231 on Adaptive Dynamic Range Softcopy Presentation State, along with its accompanying PowerPoint, in preparation for Letter Ballot.
- *Wim Corbijn moved to approve for Sup231 for Letter Ballot as amended and Björn Nolte seconded. The motion was approved without objection or abstention.*
- **DECISION:** Supplement 231: Variable Modality LUT Presentation State was approved for Letter Ballot.

e. **Supplement 233: Patient Model Gender Enhancements**

- Rob Horn shared some strategy approaches that have changes since this Supplement was last at WG-06, in accordance to HL7 work. The current draft is available here: <https://github.com/rjhorniii/dicom-sup233-wip>
- f. **Supplement 234: DICOMweb Storage Commitment (WG-27)**
- Jeroen Medema and Dieter Krotz led the group through a review of the draft Supplement on DICOMweb Storage Commitment and its accompanying PowerPoint presentation, in preparation for Public Comment. The Supplement will return to WG-06 in March 2023.
- g. **Supplement 235: HTJ2K Transfer Syntax (WG-04)**
- Bill Wallace and Chris Hafey led the group through review of Supplement 235: HTJ2K Transfer Syntax, along with its accompanying PowerPoint, in preparation for Public Comment.
 - *Björn Nolte moved to approve for Sup235 for Public Comment as amended and Kevin O'Donnell seconded. The motion was approved without objection or abstention.*
 - **DECISION:** Supplement 235: HTJ2K Transfer Syntax was approved for Public Comment.
- h. **Supplement 236: Structured Display for DICOM Waveforms (WG-32)**
- Silvia Winkler presented Supplement 236 on Structured Display for DICOM Waveforms in preparation for Public Comment. The draft Supplement and its accompanying PowerPoint were reviewed. This Supplement will return to WG-06 in March 2023.
- i. **Supplement 237: High Resolution ECG (WG-32)**
- Silvia Winkler presented some of the Public Comments that were received for Supplement 237 on High Resolution ECG. The Supplement will return to WG-06 in March 2023.
- j. **Supplement 238 on Assertion Collection (WG-07)**
- Christof Schadt led the group through the draft Supplement 238 on Assertion Collection, including accompanying PowerPoint presentation. The Supplement will return to WG-06 in March 2023.

5. 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. (Submit earlier if you want any time to resolve comments)
 - Submit **Public Comment** drafts to Shayna by **February 6, 2023**.
 - Submit **Letter Ballot** drafts to Shayna by **January 25, 2023**.

6. Upcoming WG-06 Meetings

- a. Next meeting:
 - March 20-24, 2023 - Arlington, Virginia
- b. **2023 meetings:**
 - January 16-20, 2023
 - March 20-24, 2023
 - June 19-23, 2023 (note: June 19th will be remote, the rest of the week will be at Arlington)
 - August 28-September 1, 2023 (note: August 28th will be remote, the rest of the week will be at Arlington)
 - November 6-10, 2023
 - **Action:** Björn and Shayna will investigate possible European locations.
- c. **2024 meetings: members confirmed the 2024 meeting dates**
 - January 8-12, 2024
 - March 18-22, 2024
 - June 3-7, 2024
 - August 26-30, 2024
 - November 4-8, 2024

7. Old/New Business

- a. The group discussed the above average number of Supplements that were approved for Public Comment and Letter Ballot in this cycle:
 - CPack-120 was approved for Letter Ballot with 6 Change Proposals (CPs)
 - Supplement 229: Photoacoustic Imaging IOD was approved for Letter Ballot
 - Supplement 231: Variable Modality LUT Presentation State was approved for Letter Ballot

- Supplement 235: HTJ2K Transfer Syntax was approved for Public Comment
- **DECISION:** It was decided that all items will go out during this cycle, in part because CPack-120 is small and two of the Supplements are relatively small.

b. Supplement cancellations

- Supplement 115: Evidence Document SOP Classes
 - Supplement 115 was recommended for cancellation based on the assessment of a representative from WG-08, David Clunie: “The goal of this Work Item or Supplement is no longer relevant due to lack of interest amongst the user and implementer community to linking specialized SOP Classes to specific SR templates for routine reporting of quantitative information from devices, which is instead satisfied by the general purpose SOP Classes.”
 - *Kevin O’Donnell made a motion to cancel Supplement 115 and Wim Corbijn seconded the motion.*
 - **DECISION:** Supplement 115: Evidence Document SOP Classes has been cancelled by WG-06 and Björn Nolte will bring this rationale to the DICOM Standard Committee to consider cancellation of its Work Item.
- Supplement 182: Curved and Straightened Volumetric Presentation States
 - Supplement 182 was recommended for cancellation based on the assessment of a representative from WG-11, Andreas Klinger: “Implementation of the existing Volumetric Presentation States has been slow so far. Therefore implementation experience from these Volumetric Presentation States cannot yet be used for an implementable design of the scope of Supplement 182. There will not be anyone available to work on this topic for the coming 3-5 years.”
 - *Kevin O’Donnell made a motion to cancel Supplement 182: Curved and Straightened Volumetric Presentation States and Wim Corbijn seconded the motion.*
 - **DECISION:** Supplement 182: Curved and Straightened Volumetric Presentation States has been cancelled by WG-06 and Björn Nolte will bring this rationale to the DICOM Standard Committee to consider cancellation of its Work Item.

8. Adjournment

- a. The January 2023 WG-06 meeting was adjourned at 12:20pm US Eastern Standard Time on Friday, January 20, 2023.

9. Meeting Participants

Voting Members Present							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
AAPM/University of Arkansas for Medical Sciences	Lawrence Tarbox	Voting	X	X			X
ACR	Brian Bialecki	Voting		X	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	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		
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	
ACR	Brian Bialecki	Voting	X				
Agfa	Paul Seifert	Voting	X	X	X	X	X
Carl Zeiss Meditec	Detlev Hohmeier	Voting					X
CIMICS	Bryan Fan	Voting	X	X	X	X	X
Fairhaven Technologies	Rob Horn	Voting					X
PixelMed Publishing	David Clunie	Voting		X		X	X
Observers and Alternate Voting Members							
Company/ Organization	Represented by		Mon	Tue	Wed	Thu	Fri
Agfa	Bruno Laffin	Obs.	X		X	X	
Amazon Web Services	Chris Hafey	Obs.	X				
Brainlab	Christof Schadt	Obs.	X		X	X	
CSImed	Uwe Tronnier	Obs.	X	X	X	X	X
DICOM Usergroup Austria	Silvia Winkler	Obs.	X	X	X		X
Elekta	Jim Percy	Obs.	X	X	X	X	
ICT Group	Toine van Wijk	Obs.	X		X		
Individual	Ulrich Busch	Obs.	X		X	X	
Philips	Jeroen Medema	Obs.		X			X
Radical Imaging	Bill Wallace	Obs.	X				
Reflexion Medical	Michael Owens	Obs.		X			X

Seno Medical	Allison Bertrand	Obs.		X		X	X
Seno Medical	Bryan Clingman	Obs.		X		X	
Siemens Healthineers	Dieter Krotz	Obs.		X			
University of Queensland	Liam Caffery	Obs.		X		X	

Prepared and submitted by Shayna Knazik
Reviewed by Counsel 3/24/2023