



Secretariat: MITA/NEMA
 1300 North 17th Street, Suite 900
 Arlington, VA 22209, USA
 +1-703-841-3259
<http://www.dicomstandard.org/>
dicom@dicomstandard.org

MINUTES

DICOM WG-06 Base Standard

Dates: June 3-7, 2019
 Place: Offices of Change Healthcare
 &
 The Department of Radiology
 Dublin, Ireland

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

Present	First Name	Last Name	Organization	Voting Status	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
Present	Nicholas	Bevins	AAPM	Observer		x	x		
Present	Shayna	Knazik	AAPM	Observer		x			
Present	Donald	Peck	AAPM	Observer		x	x		
Phone	Paul	Seifert	Agfa HealthCare	Voting		x	x	x	
Phone	James	Philbin	American College of Radiology 4	Voting	x				x
Phone/Present	Christof	Schadt	Brainlab AG	Observer	x		x	x	
Present	Kevin	O'Donnell	Canon Medical Research USA, Inc.	Voting	x	x	x	x	x
Phone	Allan	Noordvyk	Change Healthcare	Observer	x				
Present	Annalisa	Trianni	EFOMP	Observer		x			
Present	Jim	Percy	Elekta Inc.	Observer			x	x	
Phone	Steven	Nichols	GE Healthcare	Alt. Voting		x	x	x	
Present	Francisco	Sureda	GE Healthcare	Alt. Voting		x	x		
Phone	Ulrich	Busch	Individual	Observer	x				
Phone	Akihiro	Yomoda	JIRA	Alt. Voting	x	x	x	x	
Present	Luiza	Kowalczyk	MITA	Observer	x	x	x	x	x
Present	Lisa	Spellman	MITA	Alt. Voting	x	x	x	x	x
Phone	Koichiro	Matsumoto	Nihon Kohden	Observer	x				
Present	Silvia	Winkler	Sigma Software Solutions	Observer	x				
Present	Steve	Massey	PACS Health LLC	Observer		x	x		

Present	Wim	Corbijn	Philips	Voting	x	x	x	x	x
Present	Pritham	Shetty	Philips	Observer		x	x		
Present	Yogalakshmi	Selvarajan	Philips India	Observer	x	x	x	x	
Phone	David	Clunie	PixelMed Publishing	Voting	x				
Phone	Justin	Ryan	Rady Children's Hospital San Diego	Observer	x				
Present	Heinz	Blendinger	Siemens Healthcare GmbH	Observer		x	x		
Phone	Thomas	Mangold	Siemens Healthcare GmbH	Observer		x			
Present	Björn	Nolte	Siemens Healthcare GmbH	Voting	x	x	x	x	x
Present	Antje	Schroeder	Siemens Healthcare GmbH	Alt. Voting		x	x	x	
Phone	Elmar	Seeberger	Siemens Healthcare GmbH	Observer				x	
Phone	Jonathan	Whitby	Vital/Canon	Observer	x				

Opening and Administrative

- The meeting was called to order at 9:15 a.m. on Monday, June 3, 2019.
- The minutes of the March WG-06 meeting were approved on Friday, June 7, 2019.
 - Some formatting revisions were suggested.
- The Secretary reviewed the antitrust rules and DICOM Patent Disclosure Policy.
- The agenda was approved with no changes.

Report on Letter Ballots

1. CPack-102

- The official ballot was distributed to voting members of DICOM Standard Committee on May 28, 2019.
- The deadline to submit any votes and comments on **CPack-102 is Tuesday, July 16th 2019.**

2. Supplement 202 Real-Time Video

- It was pre-approved for letter ballot on May 23rd, officially approved on May 30, 2019 by collecting the rest of votes via email.
- The official letter ballot was distributed to voting members of DICOM Standard Committee on May 29, 2019.
- The official ballot closes on Wednesday, July 17, 2019.
- The copy of Sup 202 lb and PPT presentation overview can be found on the ftp server: <ftp://medical.nema.org/MEDICAL/Dicom/Supps/LB/>

3. CPack-101

- CPack 101 has passed the letter ballot. The ballot was closed on Sunday, April 21, 2019.

<i>Ballot</i>	<i>Approve</i>	<i>Disapprove</i>	<i>Abstain</i>	<i>Comments</i>
CPack-101	21	0	3	13

- There have been few CPs t-cons so please read the minutes.
 - <https://www.dicomstandard.org/wgs/>
 - <http://dicom.nema.org/Dicom/minutes/WG-06/2019/>

Report on Correction Proposals

- CPs spreadsheet can be found on the ftp server:
 - <ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-06-03/CP-2019-06-04.xlsx>

SECRETARY NOTE: The excel spreadsheet gets updated after each CPs discussion. Make sure to look at the latest version.

4. Voting Package

- CP-1479 Update PS3.4 for expanded Code Sequence-VP
 - Discussed cp1479_05_
 - Review it, and email to Uli if any questions.
 - **Approved for September Voting Package**
- CP-1777 Derivation of Photometric Interpretation in STOW-RS-VP
 - **Approved for September Voting Package**
- CP-1852 Add code for bounding box for SR-VP
 - **Approved for September Voting Package**
- CP-1885 Correct conflict in number of values between General Anatomy Optional and Required Macros causing conflict in DX 10 introduced by CP 1744 -VP
 - **Approved for September Voting Package**

5. Assigned

- 1868 Update PS3.18 Status Codes to be correct HTTP-AS
 - Remains assigned to Jim Philbin.

6. New

CP#	Title	Submitted by & Assigned to	Discussion	State
1944	New name: Clarify role of Timezone Offset From UTC	Submitter Jouke Numan, Assignee David Clunie	2019-06-03-Meeting CP_JN_Request_to_Retire_Timezone_Offset_From_UTC_attribute.doc	New
1945	Add coding scheme designator for RadElement	Submitter David Clunie, assignee David Clunie	2019-06-03 Meeting cp_dac512_RadElementCSD.xml	New
1946	Update Part 15 Annex H	Submitter William R. Jacqmein Assignee Rob Horn	2019-06-03- Meeting cp_rjh44_part15_annexH_update_rfcs_add_conformance.docx	New
1942	Revise Part 15 Annex F (DHCP)	Submitter Rob Horn Assignee Rob Horn	2019-06-03- Meeting cp_rjh45_update_dhcp_description.doc	New

1947	Add security considerations for 3rd party formats	Submitter Rob Horn Assignee Rob Horn	2019-06-03- Meeting This CP needs a better title- Rob. cp_rjh46_security_consideration_3rd_party_formats.docx	New
1948	Part10-format-security-considerations	Submitter Rob Horn Assignee Rob Horn	2019-06-03- Meeting cp_rjh47_part10_security_consideration.docx	New
1949	Specify the identity window level values	Submitter Bill Wallace Assignee David Clunie	2019-06-03- Meeting It needs more clarification, requires further discussion cp_wew03_identityWL.doc	New
1950	Add measurement codes for Cardiac Strain	Submitter Kevin O Donnell Assignee Kevin O Donnell	2019-06-03- Meeting Kevin needs to update a table, part 17. cp_kod_StrainMeasurementCodes.doc	New
1951	Add ultrasound Probe ID	Submitter Kevin O Donnell Assignee Kevin O Donnell	2019-06-03- Meeting cp_kod_RecordTransducerUsed.doc	New

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.

<http://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-06-03/Sups>

7. Supplement 212 XA Protocol Storage [WI 2018-09-A]

- Reviewed and discussed (WG-02)
- Comment from 6/5: In CT there is no link between the performed acquisition element and the instances created (in CT, those are the Raw Data)... and also the instances don't reference the defined and performed elements. Consider a macro that could be used at series level (for CT) and at Image Level (XA).
- The next milestone for this supplement is Public Comment

Decision:

- Sup 212 will return for another review in September.
- Allocate 4-6 hours in September if possible. (morning time slots preferred)

8. Supplement 214 Cone Beam CT in RDSR [WI 2015-12-D]

- Reviewed and discussed (WG-28)
- The next milestone for this supplement is Public Comment

Decision:

- Sup 212 may return for another review in September. To be discussed.
- Allocate 2-4 hours in September if possible. (one morning and afternoon time slot preferred)

9. Supplement 217 Neurophysiology Waveforms [WI 2018-09-D]

- It had first read. Reviewed and discussed.
- It received a number "217". (WG-32)
- Next milestone for this supplement is Public Comment.

Decision:

- Allocate 6 hours in September, if possible.
- Sup 217 will return for another review in September.

10. Supplement 209 DICOM Conformance Statement [WI 2017-04-F]

- Reviewed and discussed. (WG-31)

Decisions from WG 6 meeting

General Comment

- WG 31 Subgroup will check with editors of Supplement 64 whether they have any feedback regarding the new proposal

Section 1.1.2

- Section 1.1 provides an overview of the supported DIMSE services, however in Subsection 1.1.2 for Storage also Media- and Web services are described, which is in contradiction with the title of the subchapter above. It was suggested to split out that section as a "Content" Section. WG 31 Subgroup will develop a proposal.
- Also in this table for Web-Services there should be an indication whether the SOP Classes are supported for WADO-URI/Studies Services Retrieve/Study Services Store/NPI Retrieve / NPI Store. In this context it was also discussed whether the DIMSE services then should add a distinction for C-STORE, C-MOVE, C-GET. However the subgroup opinion is, that is already properly addressed through the supported Query Retrieve models (defined in Section 1.1.4) and the details for the C-STORE suboperation and therefore would not add any value in this table.
- Alternative 2 for documenting Transfer Syntaxes and SOP Classes is the preferred solution and Alternative 1 will be removed. Also clarification in the instructions is needed to show that for one IOD multiple Transfer Syntax Sets can be supported. Also instructions are needed how to define product specific transfer syntax sets
- Clarifications for the Archive Column of Table 1.1-2 are needed. Is that really meant for archiving or is it meant to give an indication whether compression is supported for listed SOP Classes
- For the table 1.1-5 indicate that the TID Listed here are the root TIDs .

Section 1.1.5

- Add instruction text that additional printing related SOP Classes can be added into table. Also add the ones defined in Section 5.2.8 to this overview table

Section 1.2

- Check throughout all tables in this section whether it is in alignment with the 2019b version of PS 3.18 (which has Supp 183 included).
- Do we need to list the resources in addition to transaction for all the Web Services. Make this an open issue.

Section 3.2

- Add instruction text that Audience is just example text but can be modified according to vendor preferences

Section 4

- High level image of product functionality should be moved to Overview Section
- Provide just one example sub-section 4.2.1 here and then just provide sub section as 4.2.x

Section 5.1

- Not use Notes here, but if explanatory text is needed add it as paragraphs after the table. Include appropriate instruction text
- It was suggested to have an example DCS by public comment

Section 5.2

- General
 - Provide permanent text on what the used abbreviations mean. Format them differently to use value: description. This applies to all tables in Section 5.2
 - Clarify in instruction texts whether multiple entries per cell are allowed or not
- Section 5.2.1 (MWL)
 - Return Value usage columns in Table 5.2-1: Remove columns for Copy to Instance/MPPS. Use D/C/N as values for display columns
 - Remove please from all instructions
 - Align tables for MWL SCU and SCP
 - Move HL7 to DICOM mapping in an Annex
- Section 5.2.2 (MPPS)
 - Standardize and explain how information in sequences is provided (e.g. yes on the top level, vs items)
- Section 5.2.5 (Storage)
 - Digital signature level should be moved to security section
 - Add Comment Column to Table 5.2-7 and provide example for such a comment
 - Table 5.2-8 investigate whether this can be split into two tables to better describe the concept of dependencies. Correct example for lossy compression
 - Investigate whether descriptions of data coercion, display requirements, compression and storage behavior should be split to different section, since it is applicable to media, web and DIMSE
 - 5.2.5.3: Two different behaviors need to be described here: Mapping from Input to Storage and from storage to output
- Section 5.2.6

- Table 5.2-12: add in explanatory text that all lines need to be listed in table. If a code is not supported, add in Behavior column “Code is ignored”
- In the SCP section add instruction text to describe the timing when commitment is performed, e.g. how soon an N-Event-Report can be expected

Decision:

- Sup 209 will return for another review in September.
- Allocate 6 hours in September if possible.

Action items:

- Schedule one t-con with WG-06-Luiza

11. Supplement 210 Functional Acquisition Paradigm Protocol Storage [WI 2014-12-A]

- Reviewed and discussed. (WG-16 fMRI.)
- Use structure report format for the defined and performed IODs, it is not only registration, but also patient performance.
- The next milestone for this supplement is Public Comment.

Decision:

- Sup 210 will return for another review in November.

12. Supplement 175 C-arm RT Treatment (2nd Gen.) [WI 2007-06-B]

- Reviewed and discussed. (WG-07)

Decision:

- Supplement 175 was pre-approved for Final Text. There was no quorum during this meeting so Luiza will request more votes via email.

Action item:

- Make edits as requested-Christof

13. Supplement 176 Additional RT Treatment Modalities (2nd Gen) [WIP 2007-06-B]

- Reviewed and discussed. (WG-07)
- Next milestone for this supplement is Letter Ballot.

Decision: It will return for another review in September.

14. Supplement 208 DICOM Encapsulation of OBJ Models for 3D Manufacturing and Virtual Reality [WI 2017-04-E]

- Reviewed and discussed. (WG-173 D)
- This supplement proposes adding the following to 3D Models in the DICOM standard:
 - Encapsulated OBJ (including supporting MTL and texture map images)
 - DICOM attributes for Preferred Color & Opacity (for both STL and OBJ)
 - DICOM attribute for indicating groups of models (for both STL and OBJ)
- WG06 identified some minor corrections and adjustments that they would like to make to the open issues and the body of the supplement itself, prior to it advancing to the next phase. Regardless, they felt the text was solid enough that they voted to advance it, provisional on those edits being completed.

Decision:

- Supplement 208 was approved for Public Comment with a condition to make edits as described.

Action items:

- Make any necessary edits-Justin & Allan
- Provide Luiza with a clean PC version-Justin & Allan

15. Supplement 193 Web Service Notifications [WI 2013-08-B]

- Reviewed and discussed. (WG-27)
- Next milestone for this supplement is Public Comment.

Decision:

- It will return for another review in September.

16. Supplement 218 MR Protocol Storage [WI 2018-09-B]

- Reviewed and discussed.
- It had first read. It received a number “218”. (WG-16 MR)
- Next milestone for this supplement is Public Comment.

Decision:

- It will return for another review in November.

17. HL7 Coordination

- Jonathan Whitby, Vital/Canon was elected as a new Chair of II/WG-20
- Link to access the minutes and agendas: <https://confluence.hl7.org/display/IMIN/Teleconferences>

Updates on:

- Change in a leadership of WG-20 II.
- HL7 Tracker Items
- Current Projects
- 3 Year Plan Proposals – Reviewed every January
- FHIRcast
 - II/WG-20 is currently addressing FHIRcast ballot comments/issues.
 - All resolution will be consolidated in the Ballot Reconciliation spreadsheet.
<https://github.com/HL7/fhircast-docs/issues?utf8=%E2%9C%93&q=is%3Aissue+is%3Aopen+label%3Aballot+-label%3Aresolved>
- <https://fhircast.hl7.org/> & <https://github.com/HL7/fhircast-docs>
- <https://github.com/HL7/fhircast-docs/wiki/FHIRcast-High-Level-Use-Cases>
- During the September 2019 WGM, WG-20 is going to discuss the FHIRcast transition from II to InM (Infrastructure and Messaging)
- **Next F2F Meeting: 2019 September @ HL7 WGM**
 - <https://confluence.hl7.org/display/IMIN/2019-09+WGM>
 - The PPT presentation is uploaded on the ftp server in the directory of WG-06
- <ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019-06-03/HL7-Coordination/>

New Business

Special thanks to Change Healthcare and the Department of Health for hosting DICOM WG-06 Base Standard in Dublin. We greatly appreciate their hospitality.

Future Meetings

SECRETARY NOTE:

- Any international meeting of WG-06 will start at 9:00 a.m. local time instead of 8:30 a.m.
- We need to make a decision whether we are scheduling the rest of WG-06 meetings as a four or five day meeting. If we decide on a 4 day meeting, we need choose if we want to start the mtg on Monday or Tuesday

Action Items:

- Send an email to WG-06-Luiza
- Create doodle survey polls-Luiza

- 2019 (4 or 5 days); M-Th or T-Fr
- 2020 (4 or 5 days); M-Th or T-Fr

In-Person 2019

- September 9-13, 2019, MITA HQ, Arlington, VA, USA
- November 4-8, 2019, MITA HQ, Arlington, VA, USA (doodle for this one)

CP t-cons:

- Friday, June 14th, 2019, 10:00-11:00 US ET

Dial in info: <http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx>

- Tuesday, September 3, 2019, 10:00-12:00 USA ET
- Tuesday, October 29, 2019, 10:00-12:00 USA ET

In- Person in 2020

- January 6-10, 2020, MITA HQ, Arlington, VA, USA
- March 30-April 3, 2020 Japan
- 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

An agenda plan was prepared for the next meeting. It was posted as < Agenda-plan-DICOM-WG06-Sep-2019.xlsx in the September 2019 meeting folder.

<ftp://medical.nema.org/medical/Private/Dicom/WORKGRPS/Wg06/2019/2019-09-09/>

Adjournment

The meeting recessed between 17:30 daily, and resumed at 8.30 a.m. the next day. The meeting was adjourned at at 12:00 local time on Friday, June 7, 2019

Submitted by Luiza Kowalczyk, DICOM Secretary
Reviewed by Clark Silcox, Legal Counsel, June 19, 2019.