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| --- | --- |
| Description: Description: O:\LOGOS\DICOM\DICOM LOGO - MEDIUM.tif | **1300 North 17th Street, Suite 900Arlington, VA 22209, USA****+1-703- 475-9217**[http://dicom.nema.org](http://dicom.nema.org/)E-mail: **dicom@medicalimaging.org** |

MINUTES Rev[[1]](#footnote-1)

###### DICOM WORKING GROUP SIX

(Base Standard)

**March 23-27, 2015**

### MITA/NEMA HQ

### Arlington, VA

**Members Present Represented by M T W Th F**

ACR James Philbin x x x x

Agfa Healthcare Robert Horn x x x x x

Carl Zeiss Medical Software Karl-Heinz Fleischer p

GE Healthcare Harry Solomon x x x x x

PixelMed David Clunie x x x x x

Philips Healthcare Wim Corbijn x x x x x

Siemens Healthcare Bjorn Nolte x x x x x

Toshiba MRI USA Kevin O’Donnell x x x x x

**Members Not Present Voting Representative**

JIRA Yukio Ito

\*Merge Healthcare Ronald Cowan

\*Konica Minolta Med. Imaging Michael Laconti

**Alternate Voting Representatives,**

**Observers, Others Present Affiliation M T W Th F**

Shridar Balasubramanian WG-06-Contrast/Bayer p

Ulrich Busch WG-07/Varian x x

Andrew Casertano WG-22/SAN Consulting x

Mark Horton WG-09/HIS p

Andreas Klingler WG-11/Siemens p

Helmut Koenig WG-20/Siemens p p

Joe Luszcz WG-11/Philips p p p

Christof Schadt WG-07/Brainlab x x

Keith Thornton WG-13/Carl Zeiss Medical p

Elmar Seeberger WG-16/Siemens p

Elliot Silver WG-08/McKesson p p p p

Terri Sippel Schmidt WG-08 p

Jano van Hemert WG-09/Optos p

Don Van Syckle WG-09/DVS Consulting x

Stephen Vastagh MITA x x x x

Jonathan Whitby WG-11/Toshiba x x x p

 (\* = Does not count toward a quorum, P = Phone and/or web, X = Present)

**Presiding Officer:** Robert Horn, Chair

# **Opening and Administrative**

The Chair called the meeting to order at 08.30 on March 23, 2015. A quorum was present. Members approved the agenda with the change of WG-07 presenting Sup 184 and Sup 185 instead of Sup 175 and Sup 176. The Secretary reviewed the antitrust rules.

# **Report on Ballots**

The Secretary reported on the ballots results for CPack-80.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BALLOT  | APPROVE | DISAPPROVE | ABSTAIN | **COMMENTS** |
| CPack-80 | 18 | 1 | 5 | 11 |
| Sup 155 | 18 | 0 | 5 | 3 |
| Sup 173 | 23 | 0 | 5 | 2 |

# **CPack-80 Ballot Results: Review of the Comments, Disposition of the CPs**

The Group reviewed the LB comments and decided on Final Text or other action as shown below

(DFT=Draft Final Text, FT=Final Text, AS-remains Assigned):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Titles in CPack-80** | **Assigned to** | **Review of Comments & Discussion**  | **Disposition** |
| 1420 | Support for Multi Slab Block in Ion Plan | U Busch | MAR 23 2015: Approved FTMAR 18 2015: DC Spelling and wording WG-07 comments incorporated corrected Jan 12 2015:Jan 6 2015: Confirmed VP NOV 2014: Version 4 to VPJUNE 2014: New, received CP number | FT |
| 1421 | Support for Mean Excitation Energy In Structure Physical Properties | U Busch | MAR 18 2015: No change no comment JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 03 to VPJUNE 2014: New, received CP number | FT |
| 1424 | Add Series entity present in Real-World Model but missing in Information Model figure | D. Clunie  | MARCH 18, 2015: cmt: no series IOD. JAN 12 2015:Jan 6 2015: Confirmed VP:NOV 2014: version 1 approved for VP | FT |
| 1425 | Tab character should be permitted be in text VRs (ST, LT, UT) | D. Clunie  | MAR 18 2015: No change no cmtsJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | FT |
| 1426 | Correct condition in Pixel Measures, Plane Position and Orientation Functional Groups for Segmentation | D. Clunie  | MAR 18 2015: No change no cmtsJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | FT |
| 1427 | Make Defined Term for 3D Dimension Organization Type used for US Volume mean equally spaced as well as parallel slices, and add Spacing Between Slices | D. Clunie  | MAR 18 2015: No change no cmtsJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | FT |
| 1428 | Use Pixel Measures in Enhanced US Volume | D. Clunie | MAR 18 2015: J Keyes cmt. Response: cmt is on point however cmt is not in scope of this CP JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | FT |
| 1429 | Tiled Image Box in Structured Display | H Solomon | MAR 18 2015: DC made changesJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: no version noted approved for VP | FT |
| 1430 | Add Motion Mode Definition Module | U Busch | MAR 23 201`5: DC changed code label Approved Final TextMAR 18 2015: GE cmt was responded. It is a macro as per WG-06 instruction to WG-07. Section refs and codes fixed by DCCmt: reference IEC reference. Will add in Pt 6 UID ref-DC will do itJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 07 to VPSEPT 2014 – NEW: | FT |
| 1434 | Additional SSD Information | U Busch | MAR 18 2015: Needed correction to Section ref. DC reworded, WG-07 approved. Ext contour, PT model surface fixed JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 04 to VPSEPT. 2015-NEW: | FT |
| 1435 | Correct errors in State Diagram of Hosted Applications | D. Clunie | Mar 23 2015: Corrected figure, Approved Final Text MAR 18 2015: Discussed the figures. DC will send background to KOD for possible commentsJAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 01 to VP | FT |
|  |  |  |  |  |

# **VP-Current (Voting Package for March 2015)**

The CPs listed below have either been approved for the March VP at the Jan. 2015 meeting or have been readied for this Voting Package, following the Jan. 2015 meeting. The CPs listed below were reviewed and discussed. The CPs were either approved by unanimous vote for inclusion in the next Letter Ballot (CPack 81) or were directed for further work (remained “Assigned”) as shown below.

[Legend: LB=approved for next CPack, VP=for next meeting’s voting package, AS=returned to assigned status]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title**  | **Assigned to** | **Discussion** | **Disposition** |
| 812 | Clarification that Pixel Padding Value Is a Raw Value before Any Transformations  | D. Harvey | Mar 23 2015: Approved for LBMAR 18 2015: Reviewed, OK for LB JAN 12 2015: Clunie to take action, moved to VP | LB |
| 934 | Fix Inconsistency of C-FIND Only Number of Patient Related XXX Attributes | D. Harvey | MAR 18 2015: PT related stuff in study level query OK for LBJAN 12 2015: DC found text from D Harvey, will add text. Moved to VP | LB |
| 1321 | Add Telecom Addresses | R Horn | MAR 18 2015: Reviewed new vp+1 version. DC will check style pattern/intro of key words and stay consistent. OK for LBJan 12 2015: reassigned to R Horn, he will research, DC will produce next version for VP | LB |
| 1322 | Add Consulting Physician | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: re- assigned from H Solomon to HS OK for VP | LB |
| 1357 | Allow Unicode Katakana in alphabetic name group | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: re- assigned from H Solomon to HS OK for VP | LB |
| 1402 | Add UI Value Representation to Hanging Protocol Selector attributes | J Philbin | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1413 | Add UCUM license terms  | H Solomon | MAR 18 2015: OK for LBJAN 12 2015:add LOINC & UCUM- will do a CP for SNOMED, OK for VPJUNE 2014: New, received CP number | LB |
| 1416 | Update to use SNOMED codes | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: OK for VP JUNE 2014: New, received CP number | LB |
| 1436 | Clarification Of Verification Control Point Meterset | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1437 | ClarificationOfBeamDoseScope\_02 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1438 | OmittedBeamsSequenceInBDI\_02 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1439 | ClarificationofRTImagePosition\_03 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1440 | Correct HL7 CX component name references | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1442 | Typos in UPS specification | K ODonnell | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1443 | Additional N-GET Service for UPS Push | K ODonnell | Mar 23 2015: discussed, decided to opt for simpler, added N-GET Approved for LBMAR 18 2015: There is still discussion btw KOD and HSJAN 12 2015: OK for VP | LB |
|  |  |  |  |  |

# **Letter Ballot CPack-81**

The CPs listed below comprise the CPack; they include the CPs from Table 3 above and CPs that were ordered for re-balloting or whose balloting was postponed. WG-06 decided unanimously to submit for legal review and thereafter circulate in a **Letter Ballot,** for vote by the DICOM Standards Committee, the Correction Proposals (CPs) listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Letter Ballot to Be Issued CPack-81 Title** | **Assigned to** | **Discussion** | **Disposition/Status** |
| 812 | Clarification that Pixel Padding Value Is a Raw Value before Any Transformations  | D. Harvey | Mar 23 2015: Approved for LBMAR 18 2015: Reviewed, OK for LB JAN 12 2015: Clunie to take action, moved to VP | LB |
| 934 | Fix Inconsistency of C-FIND Only Number of Patient Related XXX Attributes | D. Harvey | MAR 18 2015: PT related stuff in study level query OK for LBJAN 12 2015: DC found text from D Harvey, will add text. Moved to VP | LB |
| 1321 | Add Telecom Addresses | R Horn | MAR 18 2015: Reviewed new vp+1 version. DC will check style pattern/intro of key words and stay consistent. OK for LBJan 12 2015: reassigned to R Horn, he will research, DC will produce next version for VP | LB |
| 1322 | Add Consulting Physician | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: re- assigned from H Solomon to HS OK for VP | LB |
| 1357 | Allow Unicode Katakana in alphabetic name group | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: re- assigned from H Solomon to HS OK for VP | LB |
| 1402 | Add UI Value Representation to Hanging Protocol Selector attributes | J Philbin | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1411 | Reserved Group for Known Safe Private Elements | D Clunie  | MAR 23 2015: approved for re-balloting JAN 12 2015: incorporate GE #4 proposal w/suggested dummy values & explicit VR Passed ballot but must re-ballotJAN 6 2015: GE negative vote resolved, NOV 2014. vp version approved for LBSEPT 2014: Approved for Nov. VP | LB |
| 1413 | Add UCUM license terms  | H Solomon | MAR 18 2015: OK for LBJAN 12 2015:add LOINC & UCUM- will do a CP for SNOMED, OK for VPJUNE 2014: New, received CP number | LB |
| 1416 | Update to use SNOMED codes | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: OK for VP JUNE 2014: New, received CP number | LB |
| 1436 | Clarification Of Verification Control Point Meterset | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1437 | ClarificationOfBeamDoseScope\_02 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1438 | OmittedBeamsSequenceInBDI\_02 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1439 | ClarificationofRTImagePosition\_03 | U Busch | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1440 | Correct HL7 CX component name references | H Solomon | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1442 | Typos in UPS specification | K ODonnell | MAR 18 2015: OK for LBJAN 12 2015: OK for VP | LB |
| 1443 | Additional N-GET Service for UPS Push | K ODonnell | Mar 23 2015: discussed, decided to opt for simpler, added N-GET Approved for LBMAR 18 2015: There is still discussion btw KOD and HSJAN 12 2015: OK for VP | LB |
|  |  |  |  |  |

# **Assigned CPs Discussed**

# **(CPs in the “Assigned” meeting folder and other previously assigned CPs that were introduced for consideration for the next Voting Package.)**

[Legend: LB=approved for next CPack, VP=for next meeting’s voting package, AS=remains assigned]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Dis-position** |
| 833 | Transfer Syntax Availability and Selection for Q/R  | R. Horn | MAR 23 2015: DC confirmed that this is still an issue. Needs work, define the goal. Rob will work on it. Perhaps create a new CP. JAN 12 2015: Follow-up with R. Horn | AS |
| 991 | Clarify Handling of Private Data in the Retrieve Without Bulk Data Service | R. Horn | MAR 23 2015: RH will work on it JAN 12 2015: Rob Horn will write up as SCP discretion | AS |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | MAR 23 2015: Approved for VP. RH will prepare vp draft. Done by 3/26. RH got OK from GuentherJAN 12 2015: should be CP-991 Follow-up with R. Horn | VP |
| 1319 | Frame Of Reference Reliability | U Busch | MAR 23 2015: U Bush proposed to discuss. As written the CP does no harm. As proposed the FOR info is given as it was available at the time. Will discuss again on Thursday. White Paper placed in mtg packet… Tcon did not take place on Thursday.MARCH 2014: The related White Paper was posted. Reviewed the CP (version 07) and conducted extensive discussion, which will continue. Concluded that there is a need for analyzing and solving specific use cases. Reviewed the attributes. Noted that these types of changes, as a matter of policy, are not being added to existing objects.Jan 2014: discussed the Frame of Reference White paperOCT 2013: v03 reviewed. WG-02&27 White Paper to be reviewedAugust 2013: How to record whether FOR is correct. KOD noted that all changes should be a different FOP with mapping | AS |
| 1411 | Reserved Group for Known Safe Private Elements | D Clunie  | MAR 23 2015: approved for re-balloting JAN 12 2015: incorporate GE #4 proposal w/suggested dummy values & explicit VR Passed ballot but must re-ballotJAN 6 2015: GE negative vote resolved, NOV 2014. vp version approved for LBSEPT 2014: Approved for Nov. VP | LB |
| 1441 | Add UPS scheduled output destination | K ODonnell | MAR 23 2015: Discussed -02 version. KOD received advice from WG-06 on broad questions. Decided to split in two CPs. No. 1 will be 1441. No. 2 will be drafted later. JAN 12 2015: currently in UPS can specify source but not destination | VP |
| 1444 | Add additional dental view sets to Structured Display | A Casertano | MAR 23 2015: A Casertano described the CP. Discussed version 05. WG-06 reviewed CP in detail, changed attribute names, etc. Resaved as version 06 JAN 12 2015: NewInformative Annex is helpful. Should this be a CP or Sup? Opinion: CP because it is backward compatible | VP |
| 1445 | Remove In-Stack Position text from figure C.7.6.16-3 | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1446 |

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| Prohibit circular Dimension Index references |

 | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP  |
| 1447 | Clarify 8 bit in Extended JPEG Transfer Syntax | D Clunie | MAR 23 2015: made changes approved for VPJAN 12 2015: New | VP |
| 1448 | Add blood normalized IAUC codes  | D Clunie | MAR 23 2015: DC reviewed the CP for the group. Minor changes were made; approved for VPJAN 12 2015: New | VP |
| 1449 | Clarify Modality Device Code Definitions | D Clunie | MAR 23 2015: definition of device revised to indicate type of device. This was drafted to improve consistency. approved for VPJAN 12 2015: New | VP |
| 1450 | Correct media application profile description with respect to compression | D Clunie | MAR 23 2015: needs workJAN 12 2015: New | AS |
| 1454 | Add color space attribute | D Clunie | MAR 23 2015: add references, approved for VPJAN 12 2015: NewOptional alternative | VP |
| 1456 | Add Operator Identification Sequence to Series Modules | D Clunie | MAR 23 2015: approved for VP Serial JAN 12 2015: New | VP |
| 1457 | Identification of pre-clinical research small animal subjects | D Clunie | Mar 23 2015: Reviewed version 04. It will be divided: Part 1 – 1457, Part 2 – 1478. DC will make new PT moduleJAN 12 2015: New | AS |
| 1458 | Value representation of real world value first and last values mapped | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1459 | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1461 | Add B1RMS value to MR Enhanced and MR Object | W Corbijn | Mar 123 2015: Reviewed version 01. W Corbijn will revise per WG-06. Approved for VPJAN 12 2015: New | VP |
| 1476 | Add settling phases information and Synch pulse for Functional MRI | 1. W Corbijn
 | Mar 23 2015: Discussed for WG-06 advice on naming revising the name with redundant text. Not available for VP in this cycleMarch 18 2015: NEW, received CP#. fMRI. Settling down and add functional synch pulse.  | AS |
| 1478 |

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| Identification of species and strain of pre-clinical research small animal subjects  |

 This is Part 2 of the divided CP-1457 (Identification of pre-clinical research small animal subjects) | D Clunie | Mar 23 2015: Reviewed version 05. HS will think about lab code registry, DC will send to WG-25 for review | AS |
|  |  |  |  |  |

# **VP-Next (Voting Package for June 2015 - the next WG-06 meeting)**

Based on discussions and decisions as recorded in Tables 3, 4 and 6, the Voting Package for the next meeting includes: (CPs are copied from previous tables for convenient reference.)

VP=for next meeting’s voting package

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** |  |  |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | MAR 23 2015: Approved for VP. RH will prepare vp draft; done by 3/26. RH got OK from GuentherJAN 12 2015: should be CP-991 Follow-up with R. Horn | VP |
| 1441 | Add UPS scheduled output destination | K ODonnell | MAR 23 2015: Discussed -02 version. KOD received advice from WG-06 on broad questions. Decided to split in two CPs. No. 1 will be 1441. No. 2 will be drafted later. JAN 12 2015: currently in UPS can specify source but not destination | VP |
| 1444 | Add additional dental view sets to Structured Display | A Casertano | MAR 23 2015: A Casertano described the CP. Discussed version 05. WG-06 reviewed CP in detail, changed attribute names, etc. Resaved as version 06 JAN 12 2015: NewInformative Annex is helpful. Should this be a CP or Sup? Opinion: CP because it is backward compatible | VP |
| 1445 | Remove In-Stack Position text from figure C.7.6.16-3 | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1446 |

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| --- |
| Prohibit circular Dimension Index references |

 | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP  |
| 1447 | Clarify 8 bit in Extended JPEG Transfer Syntax | D Clunie | MAR 23 2015: made changes approved for VPJAN 12 2015: New | VP |
| 1448 | Add blood normalized IAUC codes  | D Clunie | MAR 23 2015: DC reviewed the CP for the group. Minor changes were made; approved for VPJAN 12 2015: New | VP |
| 1449 | Clarify Modality Device Code Definitions | D Clunie | MAR 23 2015: definition of device revised to indicate type of device. This was drafted to improve consistency. approved for VPJAN 12 2015: New | VP |
| 1454 | Add color space attribute | D Clunie | MAR 23 2015: add references, approved for VPJAN 12 2015: NewOptional alternative | VP |
| 1456 | Add Operator Identification Sequence to Series Modules | D Clunie | MAR 23 2015: approved for VP Serial JAN 12 2015: New | VP |
| 1458 | Value representation of real world value first and last values mapped | D Clunie | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1459 | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | MAR 23 2015: approved for VPJAN 12 2015: New | VP |
| 1461 | Add B1RMS value to MR Enhanced and MR Object | W Corbijn | Mar 123 2015: Reviewed version 01. W Corbijn will revise per WG-06. Approved for VPJAN 12 2015: New | VP |
|  |  |  |  |  |

# **New CPs Submitted that were assigned a CP Number and an Editor**

The following new change proposals were received and posted in the “…/CP/New” subdirectory of the meeting folder. CP numbers shown were assigned by WG-06. They will be marked “Assigned”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP# assigned** | **New Correction Proposals -- Title** | **Assigned to** | **Discussion**  | **File ID** |
| 1462 | Admission ID missing in MPPS module | 1. H Solomon
 | March 18 2015: NEWIt is a documentation issue | cp\_admission\_id\_for MPPS.docx |
| 1463 |

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|  Clarify Enhanced US Volume Image and Frame Type Values 3 and 4  |

  | 1. D Clunie
 | March 18 2015: NEWAdd “generic flavors”. Discussed type 3&4 attributes. State of the art is series description.  | cp\_dac279\_enhancedusvolimagetypevalues3and4.pdf |
| 1464 |

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|  Add reference region segmentation property type  |

 | 1. D Clunie
 | March 18 2015: NEW | cp\_dac280\_referenceregionsegtype.pdf |
| 1465 |

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| --- |
|  Add type of finding to measurement SR templates  |
|  |
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|  |

 | 1. D Clunie
 | March 18 2015: NEW | cp\_dac281\_addtypeoffindingtomeasurements.pdf |
| 1466 | Add session to measurements group | D Clunie  | March 18 2015: NEW | cp\_dac282\_addsessiontomeasurementsgroup.pdf |
| 1467 | Correct time point context relationship | D Clunie  | March 18 2015: NEW | cp\_dac283\_timepointcontextrelationship.pdf |
| 1468 | Add defined CID for modality in image library | D Clunie  | March 18 2015: NEW | cp\_dac284\_definedmodalitycidimagelibrary.pdf |
| 1469 | Remove duplicate rows referencing source image or series for segmentation in volumetric ROI | D Clunie  | March 18 2015: NEW | cp\_dac285\_removeduplicaterowsinvolumetricroi.pdf |
| 1470 | Small animal anatomy for pre-clinical research | D Clunie  | March 18 2015: NEWFixes tool differences | cp\_dac286\_03\_smallanimalanatomy.pdf |
| 1471 | Generalize clinical trials attributes to refer to any type of research | D Clunie  | March 18 2015: NEWAdds words: “and research” to “clinical trials”  | cp\_dac287\_02\_clinicaltrialsresearch.pdf |
| 1472 | Additional responsible persons | D Clunie  | March 18 2015: NEW | cp\_dac288\_02\_additionalresponsiblepersons.pdf |
| (1)1473(2) | Transverse positioning of pre-clinical research small animal subjects | D Clunie  | March 18 2015: NEW1.Adds left-1st & right-1st position to supine & prone. – easy CP | cp\_dac289\_01\_smallanimalpositioning.pdf |
| 1474 | More flexible description of positioning of human and pre-clinical research small animal subjects |  | 2. Add non-horizontal table positions (table positioning other than horizontal or vertical – reference is gravityWG-30 is still working on part 2 | cp\_dac289\_01\_smallanimalpositioning.pdf |
| 1475 | Add patient defined term for Ultrasound Acquisition Geometry | D Clunie  | March 18 2015: NEWNeed PT- relative description. Being implemented. | cp\_dac290\_enhancedusvolpatientageometry.pdf |
| 1476 | Add settling phases information and Synch pulse for Functional MRI | 1. W Corbijn
 | Mar 23 2015: Discussed for WG-06 advice on naming revising the name with redundant textMarch 18 2015: NEW, received CP#. fMRI. Settling down and add functional synch pulse.  | CP\_fMRI\_phases v9.doc |
| 1477 | Angles for Positioner with Digital Detector | 1. B Nolte
 | March 18 2015: NEW, received CP# Use of term image intensifier | cp\_positionerangles.docx |
| 1478  |

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| --- |
| Identification of species and strain of pre-clinical research small animal subjects  |

 This is Part 2 of the divided CP-1457 (Identification of pre-clinical research small animal subjects) | 1. D Clunie
 | Also recorded under AS CPs discussed Table 5) | This is Part 2 of the divided CP-1457 |
| 1479 | Update PS3.4 for expanded Code Sequence | 1. H Solomon
 | March 18 2015: NEWThe proposals are not in CP. Use a macro. | CP\_HS74\_CodeSeqPt4.docx |
| 1480 | Allow multiple items in the MR Receive Coil Sequence (0018,9042) |  | March 18 2015: NEW | CP\_mr\_receiving\_coil.doc |
| No need for CP | Correct Figure C.23.2-1 | 1. H Solomon
 | March 18 2015: NEWEditorial change no need for CP DC adds new category for editorial change | CP\_HS75\_FigureC.23.2-1.docx |
| 1481 | Update PS3.19 for expanded Code Sequence | 1. H Solomon
 | March 18 2015: NEWUpdates Pt 19 definitions for Expanded Code Sequence | CP\_HS76\_CodeSeqPt19.docx |
| 1482 | Correct PS3.18 RFC references | 1. H Solomon
 | Mar 23 2015: new | CP\_HS77\_RFCrefs.docx |
| 1483 | Clarify Bulk Data URI | 1. H Solomon
 | Mar 23 2015: new | CP\_HS78\_BulkDataURI.docx |
| 1484 | Add ordering decision support to CDA | 1. H Solomon
 | Mar 23 2015: new | Factored out of Sup 155 before final text |
| No need for CP | Correct term in Part 5 note | 1. H Solomon
 | Mar 23 2015: Editorial change | CP\_HS79\_PS3.5\_OffsetTable.docx |
| 1485 | Resolve discrepancy in SOP Class multiplicity for ATNA messages | W Corbijn | Mar 23 2015: new | CP\_WC\_Audit\_Message\_Schema v1.doc |
| 1486 | Add RT Ion References | 1. U Busch
 | Mar 23 2015: new | cp\_RT76\_AddRTIonBeamReferences\_01.doc |
| 1487 | Add Display Origin Coordinates To RTPlan | 1. U Busch
 | Mar 23 2015: new | cp\_RT78\_AddDisplayOriginCoordinatesToRTPlan\_02.docx |
| 1488 | Clarify RT Image Exposure Attributes in case of MPEG Encoding | 1. U Busch
 | Mar 23 2015:  | cp\_RT79\_ClarifyExposureAttributesInRTImage\_02.docx |
| 1489 | Correct description of Surface Scan IOD | 1. H Solomon
 | Mar 23 2015:  | CP\_HS80\_surfaceIOD.docx |
| 1490 | Update top level DICOM diagram for Web Services | H Solomon | Mar 23 2015: assigned CP# | cp\_HS81\_DICOMdiagram.docx |
| 1491 | Incorrect terms in Part 18 Sections 8.2.5 and 8.2.6 | J Philbin | Mar 23 2015: assigned CP# | CP\_jfp12\_uri\_windowing\_fix.docx |
| 1492 | Archeological Extension | R Horn | Mar 23 2015: new |  |
|  |  |  |  |  |

# **New CPs Submitted– Rejected**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP# assigned** | **New Correction Proposals -- Title** | **Assigned to** | **Discussion**  | **File ID** |
|  | NONE REJECTEDEditorial Changes submitted as new CPs did not require a CP number; they were accepted without CP No... |  |  |  |

Note: The comprehensive list of all CPs (including all FT and cancelled) will be posted in the “Overviews…” folder of the public ftp directory: ftp://medical.nema.org/MEDICAL/Dicom, shortly after this WG-06 meeting

# **CPs on Hold**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Status** |
| 1071W Corbijn | Additions to various CIDs of Supplement 78 | W Corbijn | Waiting for SNOMED CodesReassigned to W Corbijn from B Revet | FT Passed, On hold |
| 1302R HornH Solomon | Correct example of Chinese encoding | A Leontiev | MAR 23 2015: H Solomon will update and draft response. DICOM will add rationale and communicate to negative vote asking if they would withdraw the negative.SEPT. 2015 Remains on hold.Rob and Andrei will investigate negative ballot vote from ChinaOCT 2013: Discussed negative by China in CPack 73. Discussed returning to ASCII. Noted that Part 5 does not call for =.ACTION: R. Horn to checkAUG 2013: more editorial revisionsJUNE 2013: Discussed the carat issue and added to CP draft. | Remains On Hold |
| 1403H Solomon | Clarify use of DIMSE service Status codes | A Leontiev | JAN 12 2015: Passed ballot but not ready for FT - Andrei will make argument in March re. forbid other codes or not Andrei not present in Jan. Wait till response by Andrei to U Busch’ argument. (Approved in CP-79)JAN 6 2015: Uli Busch explained that Wg-07 cannot live with disallowing the sending of codes. Others concurred; A. Leontiev explained the intent of this CP. More discussion will be needed.NOV 2014: Clarifies standard. vp version approved for LBSEPT 2014: Approved for Nov. VPJUNE 2014: New, received CP number | Passed ballotOn hold  |
|  |  |  |  |  |

# **CPs Cancelled at this meeting**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Status** |
|  | None cancelled at this meeting. |  |  |  |
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# **List of all remaining assigned CPs at the end of this WG-06 meeting**

(AS=assigned)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** |  |
| 235 | Clarify NM detector start angle usage | J. Pohlhammer | JAN 12 2015: Discussed to contact J Pohlhammer to decide whether to cancel – (referred back to WG3 Jan 2001 WG6 meeting minutes) | AS |
| 296 | Eliminate Duplicate Terms and Provide Missing Definitions | H. Solomon |  | AS |
| 430 | Additions to PS 3.16 for Cardiac Cath SR | H. Solomon |  | AS |
| 471 | Add Common Finding Template | H. Solomon |  | AS |
| 591 | Attribute Identifier List for Errors in Sequence Attributes | H. Solomon |  | AS |
| 596 | Add Request and Schedule Information to Results and MPPS | R. Horn | JAN 12 2015:R. Horn , will review this week whether already in standard | AS |
| 597 | Instance Availability Notification Structure | H. Solomon |  | AS |
| 757 | Add RTSS ROI Feature UID | H. Solomon |  | AS |
| 802 | Incorporate Fixes on 702 and 706 | D. Clunie | JAN 12 2015:D. Clunie will do more work | AS |
| 804 | Indicator for Cone Beam CT | U Busch | JAN 12 2015: Follow-up with U. Busch | AS |
| 811 | Note for Forwarders Regarding SCP-assigned Instance UIDs during N-CREATE  | D. Harvey | Jan 12 2015: Reviewed, follow-up with Dave Harvey or cancel - related to IHE MPPS Manager CP - ? Ever done? KOD recommends canceling | AS |
| 833 | Transfer Syntax Availability and Selection for Q/R  | R. Horn | JAN 12 2015: Follow-up with R. Horn | AS |
| 836 | Clarify Usage of Attributes for Normalized IODs | K. O’Donnell | JAN 12 2015: Follow-up with K O’Donnell, cancel? | AS |
| 838 | Consistent Naming of Error Code Tables | K. O’Donnell | JAN 12 2015: Follow-up with K O’Donnell, cancel? | AS |
| 941 | More Clarification of Instance References | D. Clunie | JAN 12 2015:Will require a lot of work | AS |
| 991 | Clarify Handling of Private Data in the Retrieve Without Bulk Data Service | R. Horn | JAN 12 2015: Rob Horn will write up as SCP discretion | AS |
| 992 | Clarify Allowable Length Values for Certain PDUs | K. O’ Donnell | JAN 12 2015: Follow-up with K O’Donnell,  | AS |
| 1013 | RT Ion Beams Recording Clarifications | WG-07 |  | AS |
| 1019 | Add Body Part at the Study Level | K O’Donnell | JAN 12 2015: Follow-up with K O’Donnell, will add anatomic region, too | AS |
| 1030 | Re-factor Common Attributes for Enhanced Images | W Corbijn | JAN 12 2015: Follow-up with W. Corbijn, reassigned to W. Corbijn from B Revet | AS |
| 1106 | Assign a Namespace for Audit Schema Elements | R. Horn | JAN 12 2015: Follow-up with R. Horn | AS |
| 1115 | Add Dose Reference Point Codes for CR/DR | K. O’Donnell |  | AS |
| 1126 | Corrections LOINC Codes Sup78 | B. Revet | JAN 12 2015: Follow-up with W. Corbijn, reassigned to W. Corbijn from B Revet | AS |
| 1127 | Add Fields for Organ Dose to Dose SR | K. O’Donnell |  | AS |
| 1163 | Conformance for Application Hosting | H Solomon |  | AS |
| 1180 | Use LOINC\_Short Name | H. Solomon | Was in Aug 12 VP | AS |
| 1189 | Add usage of Temporal Position Time Offset to Per Frame content Macro as needed for Enhanced MR and Enhanced CT objects. | W. Corbijn | JAN 12 2015: Follow-up with W. Corbijn.  | AS |
| 1196 | Add phantom-specific Total DLP Values to allow for Head and Body in same RDSR scope of accumulation | D. Clunie | JAN 12 2015: DC will discuss with WG 21 and WG 28; Kevin will check implementation Last discussion: Need to be discussed in WG-21  | AS |
| 1207 | Change Multi-frame Dimension module usage to “User Option” for IVOCT IOD | W. Corbijn | JAN 12 2015: Follow-up with W. Corbijn. Probably cancel. reassigned to W. Corbijn from B RevetLast discussion: Tom Probasco-WG-06 needs more information and examples for when it is meaningful [BR to contact TP]  | AS |
| 1208 | Clarify the unambiguous use of Private Creator Data | W. Corbijn | JAN 12 2015: Follow-up with W. Corbijn. Reassigned to W. Corbijn from B RevetLast discussion: B Revet clarified that the intent of the CP is to prevent the same identifier issued for different blocks. It was suggested to state that the “same privet creator shall not be used for different blocks.” ACTION: B Revet will reword it to include more normative text and include examples in the notes. Also make it clear that there is no implication in the order of the blocks. | AS |
| 1224 | Add Expiration Date to UPS | K O’Donnell |  | AS |
| 1225 | Add Procedure Step Completion Codes to UPS | K. O’Donnell |  | AS |
| 1226 |  Add more specific post-processing codes to CID 9231 | K. O’Donnell |  | AS |
| 1227 | Fix Estimated Dose Saving attribute | K. O’Donnell |  | AS |
| 1228 | Correct inconsistency between Table C.30.3-1 and Table CC.2.5-3 of UPS | K O’Donnell |  | AS |
| 1241 | Restrict claiming UPS Work items AS to another AE | K O’Donnell |  | AS |
| 1319 | Frame Of Reference Reliability | U Busch | MAR 23 2015: U Bush proposed to discuss. As written the CP does no harm. As proposed the FOR info is given as it was available at the time. Will discuss again on ThursdayMARCH 2014: The related White Paper was posted. Reviewed the CP (version 07) and conducted extensive discussion, which will continue. Concluded that there is a need for analyzing and solving specific use cases. Reviewed the attributes. Noted that these types of changes, as a matter of policy, are not being added to existing objects.Jan 2014: discussed the Frame of Reference White paperOCT 2013: v03 reviewed. WG-02&27 White Paper to be reviewedAugust 2013: How to record whether FOR is correct. KOD noted that all changes should be a different FOP with mapping | AS |
| 1320 | Update to CID 3411 Intracoronary Devices | A Leontiev | JAN 12 2015: Follow-up with H. Solomon. version \_01 says waiting for ACC Cath Committee et al | AS |
| 1323 | Clarify Audit Code Meanings | R Horn | JAN 12 2015: Follow-up with R. Horn. Last discussion: Clarify Codes | AS |
| 1345 | Add Related UPS Sequence | K O’Donnell | JAN 2014: Lengthy discussion. This CP may be the solution to existing problems. | AS |
| 1349Kevin and Florian | Link from still picture to video | B Revet to D. Clunie | JAN 12 2015: discussed to not include implementation advice particularly as it links to current technology. Need to re-ballot. Need comment from FlorianNOV 2014: Kevin and Florian will discuss further off-line. KOD: make it more of a cook book.JUNE 2014: See the Toshiba comment: KOD the text is not fully informative, only understandable to “insiders”. Check with author, Florian Knicker. Remains assigned.MARCH 2014: WG-06 reviewed, no comments | AS , On Hold for re-balloting |
| 1353 | Secure Transport Connection Profile should allow higher TLS versions | R Horn | JAN 12 2015: Follow-up with R Horn | AS |
| 1358 | Correct tag mismatch between Implant Template Group Module and dictionary | A Leontiev |  | AS |
| 1361 | Correct ParticipantObjectDescription in DICOM audit message | R Horn | JAN 12 2015: Follow-up with R Horn | AS |
| 1362 | Correct AuditSourceIdentification in DICOM audit message | R Horn | JAN 12 2015: Follow-up with R Horn | AS |
| 1364 | Minor corrections to WADO-RS and STOW-RS | J Philbin | JAN 12 2015: Stay assigned. Will discuss in March 2015 with when WG-27 members attend | AS |
| 1414 | Update PS3.1 definitions | A Leontiev | JUNE 2014: New, received CP number | AS |
| 1415 | Update PS3.1 front matter | A Leontiev | JUNE 2014: New, received CP number | AS |
| 1418 | Add UDI (Universal Device ID) to objects | K O’Donnell | JUNE 2014: New, received CP number | AS |
| 1423 | Extending RFC 3240 with DICOM-Mime header fields | D Clunie,  | JAN 12 2015: Confirmed taskSEPT 2015 – NEW:David Clunie will work with Marc to finalize CP and submission to IETF. Secretary will submit to IETF. | AS |
| 1431 | Add Beam Effective Dose in RT Fraction Scheme Module | U Busch | SEPT. 2015-NEW:Needs editing | AS |
| 1432 | Add Beam Effective Dose in RT Fraction Scheme Module | U Busch | NOV 2014: Version 04. Remains ASSEPT. 2015-NEW:Looks very RT | AS |
| 1433 | RT-specific KOS CIDs | U Busch | SEPT. 2015-NEW:Delete blank lines | AS |
| 1441 | Add UPS scheduled output destination | K ODonnell | JAN 12 2015: currently in UPS can specify source but not destination | AS |
| 1451 | Remove retired Point Index List attributes in PS3.5 Annex A | B Nolte | JAN 12 2015: New | AS |
| 1452 | Correct Recommended Presentation Opacity explanation | B Nolte | JAN 12 2015: New | AS |
| 1455 | Add exposure attributes to X-Ray 3D CRANIOFACIAL Image IOD  | A Casertano | JAN 12 2015: NewWill need to consider discussions of WG-28: should dose data be in image header or in SR. Concern: dose registries collect data, not images. On Agenda for 12/15 Thursday CP Session. Will do both image and RDSR template update | AS |
| 1457 | Identification of pre-clinical research small animal subjects | D Clunie | JAN 12 2015: New | AS |
| 1460 | Add Ion Range and Modulation Definition | U Busch | JAN 12 2015: New | AS |
| 1462 | Admission ID missing in MPPS module | 1. H Solomon
 | March 18 2015: NEWIt is a documentation issue |  |
| 1463 |

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|  Clarify Enhanced US Volume Image and Frame Type Values 3 and 4  |

  | 1. D Clunie
 | March 18 2015: NEWAdd “generic flavors”. Discussed type 3&4 attributes. State of the art is series description.  |  |
| 1464 |

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|  Add reference region segmentation property type  |

 | 1. D Clunie
 | March 18 2015: NEW |  |
| 1465 |

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|  Add type of finding to measurement SR templates  |
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 | 1. D Clunie
 | March 18 2015: NEW |  |
| 1466 | Add session to measurements group | D Clunie  | March 18 2015: NEW |  |
| 1467 | Correct time point context relationship | D Clunie  | March 18 2015: NEW |  |
| 1468 | Add defined CID for modality in image library | D Clunie  | March 18 2015: NEW |  |
| 1469 | Remove duplicate rows referencing source image or series for segmentation in volumetric ROI | D Clunie  | March 18 2015: NEW |  |
| 1470 | Small animal anatomy for pre-clinical research | D Clunie  | March 18 2015: NEWFixes tool differences |  |
| 1471 | Generalize clinical trials attributes to refer to any type of research | D Clunie  | March 18 2015: NEWAdds words: “and research” to “clinical trials”  |  |
| 1472 | Additional responsible persons | D Clunie  | March 18 2015: NEW |  |
| (1)1473(2) | Transverse positioning of pre-clinical research small animal subjects | D Clunie  | March 18 2015: NEW1.Adds left-1st & right-1st position to supine & prone. – easy CP |  |
| 1474 | More flexible description of positioning of human and pre-clinical research small animal subjects |  | 2. Add non-horizontal table positions (table positioning other than horizontal or vertical – reference is gravityWG-30 is still working on part 2 |  |
| 1475 | Add patient defined term for Ultrasound Acquisition Geometry | D Clunie  | March 18 2015: NEWNeed PT- relative description. Being implemented. |  |
| 1476 | Add settling phases information and Synch pulse for Functional MRI | 1. W Corbijn
 | Mar 23 2015: Discussed for WG-06 advice on naming revising the name with redundant textMarch 18 2015: NEW, received CP#. fMRI. Settling down and add functional synch pulse.  |  |
| 1477 | Angles for Positioner with Digital Detector | 1. B Nolte
 | March 18 2015: NEW, received CP# Use of term image intensifier |  |
| 1478  |

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| Identification of species and strain of pre-clinical research small animal subjects  |

 This is Part 2 of the divided CP-1457 (Identification of pre-clinical research small animal subjects) | 1. D Clunie
 | Also recorded under AS CPs discussed Table 5) |  |
| 1479 | Update PS3.4 for expanded Code Sequence | 1. H Solomon
 | March 18 2015: NEWThe proposals are not in CP. Use a macro. |  |
| 1480 | Allow multiple items in the MR Receive Coil Sequence (0018,9042) |  | March 18 2015: NEW |  |
| 1481 | Update PS3.19 for expanded Code Sequence | 1. H Solomon
 | March 18 2015: NEWUpdates Pt 19 definitions for Expanded Code Sequence |  |
| 1482 | Correct PS3.18 RFC references | 1. H Solomon
 | Mar 23 2015: new |  |
| 1483 | Clarify Bulk Data URI | 1. H Solomon
 | Mar 23 2015: new |  |
| 1484 | Add ordering decision support to CDA | 1. H Solomon
 | Mar 23 2015: new |  |
| 1485 | Resolve discrepancy in SOP Class multiplicity for ATNA messages | W Corbijn | Mar 23 2015: new |  |
| 1486 | Add RT Ion References | 1. U Busch
 | Mar 23 2015: new |  |
| 1487 | Add Display Origin Coordinates To RTPlan | 1. U Busch
 | Mar 23 2015: new |  |
| 1488 | Clarify RT Image Exposure Attributes in case of MPEG Encoding | 1. U Busch
 | Mar 23 2015:  |  |
| 1489 | Correct description of Surface Scan IOD | 1. H Solomon
 | Mar 23 2015:  |  |
| 1490 | Update top level DICOM diagram for Web Services | H Solomon | Mar 23 2015: assigned CP# |  |
| 1491 | Incorrect terms in Part 18 Sections 8.2.5 and 8.2.6 | J Philbin | Mar 23 2015: assigned CP# |  |
| 1492 | Archeological Extension | R Horn | Mar 23 2015: new |  |
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The discussion of the Supplements follows. The documents referenced are posted in the ‘Sups’ subdirectory of the meeting directory.

Changes to the presentations of Supplements on the Agenda:

* WG-07 presented Sup 184 and Sup 185 instead of Sup 175 and Sup 176.
1. **Supplement 121 – Modality Procedure Plan and Protocol Storage (CT) {WI-2006-04-E}**

This was a presentation for Letter Ballot.

K. O’Donnell presented the draft supplement posted as < Sup121\_PC+01-20150322.docx>

He reported that 151 public comments were received, including many from RSNA and AAPM. He further reported on the recent 4-day WG-21 meeting where all the comments were analyzed and resolved.

He conducted a high level review of the Supplement:

* Defined protocols – not in the PT Study hierarchy; it is general
* Performed protocols – details of the exam / scan; it is in the PT study
* Planned protocols – deleted from the scope as not sufficiently justified by use cases
* Injector protocols were not included (under development in Sup 164)
* Editing protocol attributes should all be done on the scanner
* Reviewed attributes and attribute groupings
* Policies – DICOM is not standardizing policies; discussing policies only to add attributes that may be needed to the various policies that may be set by the users.
* Developed a flexible way of handling reconstruction
* Decided that the routing of various CT output data is not expected of the CT scanner, albeit some may perform it. Such routing is dependent on the site’s IT infrastructure.
* Likewise, the organization of protocols is best left for a Protocol Management Workstation; no such requirement will be set in this supplement for the modality.

More specifics discussed included:

* MPPS workflow relative to the performed protocol
* Highlighted places in the draft preparing for adding other modalities (e.g. MRI) at a later date
* Some items would be more usable in XML for implementers (e.g. AttributeValueSpecificationMacro)
* Needs substantial informative annex
* Coding scheme to match appropriateness criteria (ACR comment)

Reading paused at the ASSERTION MACRO.

The post session annotated document was posted as <Sup121\_PC+01-20150323.docx>

The reading continued in Session 2 and the changes discussed and decided have been marked in the document <Sup121\_PC+01-20150326.docx>.

 The supplement will **return.**

1. **Supplement 155 – Imaging Reports using HL7 Clinical Document Architecture (revision and replacement of PS3.20) {WI-2010-04-D}**

This was a reading for Final Text.

Editor Harry Solomon described the comments received in the Letter Ballot. He started by presenting <sup155\_lb+3.docx>, which included the changes made pursuant to the LB comments.

WG-06 directed to make several editorial changes. These were incorporated in the revised draft posted as <sup155\_lb+4.docx>. Subject to a few more editorial changes the Group approved the document as Final Text.

It was noted that some of the new formats of the Standard may not preserve the various styles (bold, italics.)

The Supplement 155 was approved as Final Text.

# **Supplement 156 – Planar MPR Volumetric Presentation State** **{WI 2008-04-C}**

This was a continued reading/discussion for Final Text.

J. Luszcz presented by phone and J Whitby and A. Klingler assisted by phone. There were no additional LB comments to discuss. The line-by-line reading for FT had not yet been started in prior meetings.

The discussion included:

* Distinguish between grayscale and color. SCP should not have to support both. CT & MR need no color. Two options were suggested: color+monochrome and monochrome.
* Should have single channel, one input
* Why not have one input for RGB/true color?
* 80% of use cases are single channel MPR
* Advised to add in P1t 15 the items requested in the D Clunie comment

At this time the line-by-line reading started:

* Move informative material from Scope&Field of Application to Pt 17 in order not to lose it.
* Discussed definition of MPR; instant research showed that it is defined as volume. The goal is to make the definition reusable elsewhere. MPR has never been defined in DICOM but often used.
* Reviewed in detail other definitions.
* No grayscale source object in DICOM that is not P-value.

The line-by-line reading will continue on 2015-04-29 10:00 to 12:00 USA ET t-con.

The Supplement 156 will return.

1. **Supplement 173, Wide Field Ophthalmic Photography Image Storage SOP Class [WI-2013-12-A]**

This was a reading for Final Text.

Don Van Syckle is the Editor of this Supplement. The Supplement is proposed on behalf of DICOM WG-09. He was joined by M. Horton, K. Fleischer and J. Van Hemert on the phone.

He reviewed the comments received from GE and Hologic plus the WG-06/09 resolutions (posted in the meeting folder.) The changes were accepted by WG-06 with minor corrections.

Thereafter the Supplement was approved for **Final Text**.

1. **Supplement 174, RS (RESTFUL) (RETRIEVE) RENDERING – WI-2008-04-B)**

This was a reading for Public Comment.

Editor J. Philbin presented < sup174\_RS\_Rendering\_public\_comment.docx> which was posted in the meeting folder. The Group discussed and suggested revisions that were indicated in the ‘end of meeting document posted: sup174\_RS\_Rendering\_2015-03-26\_eom.docx.

The Supplement was approved for **Public Comment.**

1. **Supplement 175 –2nd Generation Radiotherapy - C-Arm Radiations {WI 2007-06-B}**

WG-07 presented Sup 184 and Sup 185 instead of Sup 175 and Sup 176.

1. **Supplement 176 –2nd Generation Radiotherapy – Additional RT Treatment modalities. {WI 2007-06-B}**
WG-07 presented Sup 184 and Sup 185 instead of Sup 175 and Sup 176.
2. **Supplement 180 – MPEG-4 AVC/H. 264 Transfer Syntax {WI 2014-04-A}**

This was a continued reading for Letter Ballot. Editor Karl-Heinz Fleischer posted and presented the sup180\_06.doc. Keith Thornton of Carl Zeiss assisted.

The revisions decided at the previous WG-06 meeting were implemented in the draft < sup180\_06.doc> which was posted prior to the meeting.

Additional revisions decided at this meeting included:

* Remove Stereo Frame Packing Format (0028,eee2) attribute
* adjust descriptions to avoid redundancy

The Supplement was approved for **Letter Ballot**.

1. **Supplement 180 – MPEG-4 AVC/H. 264 Transfer Syntax {WI 2014-04-A}**

This was a continued reading for Letter Ballot.  Editor Karl-Heinz Fleischer posted and presented the sup180\_06.doc.  Keith Thornton of Carl Zeiss assisted.

The revisions decided at the previous WG-06 meeting were implemented in the draft < sup180\_06.doc> which was posted prior to the meeting.

Additional revisions decided at this meeting included:

* remove Stereo Frame Packing Format (0028,eee2) attribute
* adjust descriptions to avoid redundancy

The Supplement was approved for **Letter Ballot**.

1. **Supplement 183, Part 18 (Chapter 10) Re-documentation [WI-2008-04-B]**

This was a continuation of reading for Public Comment.

Editor James Philbin presented.

The discussion included:

* Deleting SOP. IHE is using SOP and the DICOM version is somewhat confusing.
* A lengthy discussion followed about whether retire WADO-WS, retiring SOP.
* WADO-URI should remain. The description can be revised in the redocumenteation but not the encoding. Use character set and not the header
* Redocumentation should not break existing implementations.
* Several CPs are needed. D. Clunie will prepare CPs: character set of response, MIME type, transfer syntax..
* Specifying transfer syntax should continue.
* There was a discussion without conclusion about the definition of ‘breaking’.

The Supplement will **return.**

# **Supplement 184 – Brachytherapy Delivery Instructions {WI 2000-11-B}**

This was a first reading for Public Comment. U. Busch presented the posted document < sup184\_08.doc>; C. Schadt assisted.

***Foreword and The Scope and Field of Application*** *(reproduced for easy reference.)*

*This supplement specifies an IOD to convey the information necessary to communicate the delivery of a brachytherapy treatment in a treatment session. The object will be exchanged between a workflow management system where the treatment session is scheduled, and the delivery devices.*

*The modifications introduced by this supplement describe worklist support for the brachytherapy treatment management and treatment delivery systems. Intention is to offer similar level of support for brachytherapy treatment workflow as was introduced for the external beam radiotherapy in “Supplement 74: Utilization of Worklist in Radiotherapy Treatment Delivery”.*

*This is achieved by the addition of the following:*

* *RT Brachy Delivery Instruction Storage Composite IOD, which contains the data necessary to instruct a treatment delivery device on what is to be delivered. The key element of the IOD is the RT Brachy Delivery Instruction Module, which contains information on the RT Plan to be used, the channels within the plan that will actually be delivered or omitted.*

*This supplement is being driven by the desire to address the lack of support for brachytherapy treatment delivery workflow in the current standard.*

There was extended discussion of the attributes describing the Plan, Application Setups, Fractions, and Pulses. The hierarchy of the data was identified and the definition of the attributes decided.

The changes recommended / issues raised by WG-06 included:

* Drawing should be added to explain the relation of Plan, Application Setups, Fractions and Pulses.
* Wording should be streamlined (‘shall’ to be used only for DICOM requirements, remove "Specifics" or "Describes" and alike)
* While in real life so far there is only one Application Setup, the omission sequence should systematically include both the Application Setup and the Channel omission (Currently only the latter one is covered)
* Add Delivery Instruction to drawing in Figure A.tt-1. The same should be done for the already existing Beam Delivery Instruction (which was used as a template) by a separate CP to be provided by WG-07.
* The term ‘Task’ is taken from Beams Delivery Instruction and therefore should stay, but it should be explained.

The supplement will **return.**

# **Selector Attribute Macro – General Issue for 2nd Generation RT Supplements**

WG-07 presented this topic to WG-06 for discussion. This concept is important for the 2nd Generation DICOM RT standard supplements. The question to WG-06 was how to include a wildcard approach to select attributes in all items of a sequence. Such functionality is needed for Supplement 175 and beyond. It was first discussed in WG-06 during the Sup 175 review at the last meeting. Following some ad-hoc proposals during this discussion, WG-07 has worked out a proposal to extend the Macro by additional attributes. However, it turned out that the ad-hoc proposal have not been sufficient for multi-item selection and WG-07 came back to this topic at the current meeting.

There was determined that an addition to the existing attribute definitions of the current Selector Attribute Macro to support wildcards would not break existing applications and therefore is acceptable as well. Then the prior proposals are not needed any more.

Namely the Selector Sequence Pointer Items (0074,1057) attribute specification can be extended by a wildcard indicator. This allows selecting one item or all items in a sequence. It does not allow to selects collection of individual items, but WG-07 perceives that solution as sufficient for the time being.

It was decided that this extension will be introduced by a separate Change Proposal to be provided by WG-07 (rather than being included in one of their supplements).

U. Busch and C. Schadt thanked WG-06 for this advice.

1. **Supplement 185, Object Evaluation Results IOD {WI 2000-11-B}**

This was a first reading for Public Comment. U. Busch presented < Sup185\_ObjectEvaluation\_13.doc>; C. Schadt assisted.

***The Scope and Field of Application is reproduced from easy reference.***

*This Supplement specifies the IOD representing object evaluation findings against reference information. It stems from the development of the Quality Assurance with Plan Veto profile in IHE-RO. While the profile originated from use cases to evaluate RT Plan, the IOD is generalized to allow for reporting of evaluation results involving any DICOM object.*

The concepts in the supplement were reviewed for WG-06 in detail. Several in depth discussions were conducted, including the DICOM meaning of series.

The title raised questions but was explained satisfactorily.

The changes recommended / issues raised by WG-06 included:

* The Foreword should be strengthened, since it is too generic currently.
* Evaluated Objects: Could be multiple (e.g. on an Image Series)
* Requester Result Key: Could be a VR of URI as well
* Evaluation Requester Some comments in respect to re-use of existing approaches (like C.17.2.4 Identified Person or Device Macro and constructs in SR Document General Module)
* Findings description facilities may be enhanced, e.g. it may be possible to cover multiple offending attributes and the range violation specification maybe re-visited.
* Selector Attribute Macro: The extension by 3 attributes (Name, VR, Key) maybe modelled as macro as well

The supplement will **return.**

# **Supplement 186, Extensible SR Storage SOP Class [WI-2003-12-B]**

This was a read for letter ballot.

The draft was presented as posted in the meeting folder as <sup186\_02\_extensiblesr.pdf>.

During the discussion it was discovered and decided to write a CP to make the ‘Relationship type’ an enumerated value.

After discussion the Group approved the Supplement for **Letter Ballot.**

# **Supplement 187 – Preclinical Small Animal Imaging Acquisition {WI 2015-05-187}**

This was a First Read.

D. Clunie presented the posted document <sup\_preclinicalanimalacquisitioncontext\_04b.pdf>. He explained that the National Cancer Institute (NCI) is interested in the interoperability of research/small animal imaging and human imaging. The acquisition context (conditions and type of surroundings) is important as it influences the response of the research animals; this data is obtained by/from a system separate from the acquisition device. This is proposed to be an SR (Structured Report.) The Editor noted that the SR will be transportable to other carriers such as Green CDA, JSON, etc. with full bidirectional integrity.

***The Scope and Field of Application*** *(reproduced for easy reference.)*

*This supplement defines a new DICOM SR root template and supporting templates, as well as an IOD and SOP Class specific to that template to facilitate interoperability. The type of information to be recorded needs to be in a structured form, and many of the concepts are expected to be available in external lexicons. This is particularly the case for descriptions of experimental conditions, animal physiology and animal handling. Accordingly, the DICOM Structured Report (SR) mechanism is a natural choice of encoding. Both approaches assume that the Acquisition Context is known prior to encoding the image in DICOM, and that it is known to the device encoding the DICOM image (the modality). In some cases, information about the acquisition that is relevant to the interpretation of the imaging may not be known to the modality. This is particularly the case in small animal preclinical research, where a myriad of factors that affect quantitative analysis need to be recorded, which would be overwhelming if required to be captured at the modality console user interface. Though it would be possible to add this information by post-processing of the acquired images, WG 30 has concluded that it is preferable to encode the Acquisition Context in a separate standalone composite instance. Traditionally, all attributes that describe an image acquisition are defined as specific Attributes (Data Elements) in a modality-specific IOD. This approach works extremely well when image objects have very specific applications and when the domain from which the descriptive concepts are drawn is well understood and clearly defined. When the visible light image object family was introduced, an alternative and more general mechanism was added to the standard, using lists of coded name-value pairs to specify acquisition content information, rather than depending on SOP-class-specific sets of traditional Attributes. The name-value pairs are encoded in the Acquisition Context Module. Using coded entries has benefits and disadvantages. One of the advantages is the ability to use coding schemes defined by other organizations to define names and value sets for concepts. The "acquisition context" idea was introduced to DICOM by Dean Bidgood and is well described in his article on the subject: Bidgood WD, Bray B, Brown N, Mori AR, Spackman KA, Golichowski A, et al. Image Acquisition Context: Procedure Description Attributes for Clinically Relevant Indexing and Selective Retrieval of Biomedical Images. Journal of the American Medical Informatics Association: JAMIA. 1998 Aug 17;6(1):61–75. available at http://www.ncbi.nlm.nih.gov/pubmed/9925229. Acquisition Context is a "description of the conditions present during data acquisition" (quoted from the text of PS3.3 Section C.7.6.14 Acquisition Context Module). This Supplement defines use-cases and templates for storage of information related to acquisition of small animal images during preclinical research.*

The Group reviewed in detail the attributes and suggested revisions.

The Supplement will **return.**

1. **New Business**

There was no new business discussed.

1. **Future Meetings**

* June 15-19, 2015, Spain, Spanish Health Informatics Society Hosting
* Sept. 14-18, 2015, Arlington, MITA HQ, VA, USA
* Nov. 9-13, 2015, Arlington, MITA HQ, VA, USA
1. **Next Meeting Agenda**

An agenda plan was prepared for the next meeting. This was posted as <Agenda Plan for June 2015.xls> in the meeting folder.

Note:

The comprehensive list of all CPs (including all FT and cancelled) is posted in this meeting’s folder: CP-2015-03-28.xlsx

The comprehensive list of all Supplements (sorted by Supp. Number) is posted in this meeting’s folder: Supstat-2015-04-02.xlsx

These lists are also posted in ftp://medical.nema.org/MEDICAL/Dicom/Overviews-CPs-Sups-WIs

1. **Adjournment**

The meeting recessed at 17.30 daily and resumed at 08.30 the next day. The meeting was adjourned at 13.00, on March 27, 2015.

Submitted by Stephen Vastagh, Secretary

Reviewed by Clark Silcox, Legal Counsel

1. Spelling and editorial changes only [↑](#footnote-ref-1)