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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-Rev2[[1]](#footnote-1)

###### DICOM WORKING GROUP SIX

(Base Standard)

**Jan. 12-16, 2015**

### MITA/NEMA HQ

### Arlington, VA

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

ACR James Philbin x x x x x

Agfa Healthcare Robert Horn x x x x x

Carl Zeiss Medical Software Karl-Heinz Fleischer p

GE Healthcare Andrei Leontiev p

JIRA Yukio Ito x x x x

\*Konica Minolta Med. Imaging Michael Laconti p

PixelMed David Clunie x x p p 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**

\*Merge Healthcare Ronald Cowan

**Alternate Voting Representatives,**

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

Shridar Balasubramanian WG-06-Contrast/Bayer p p

Ulrich Busch WG-07/Varian x x x

Andrey Fedorov WG-18/Brigham Women’s p

Andreas Klingler WG-11/Siemens p p

Florian Knicker WG-13/Panasonic p

Kowalczyk, Luiza MITA x x x x x

Luszcz, Joe WG-11/Philips p p

Schadt, Christof WG-07/Brainlab x x

Francisco Sureda WG-02/GE Healthcare p p

Makoto Suzuki JIRA x x x

Keith Thornton WG-13/Carl Zeiss Medical p

Vastagh, Stephen MITA x x x x x

Whitby, Jonathan WG-11/Toshiba x x x

 (\* = 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 Jan. 12, 2015. A quorum was present. Members approved the agenda. The minutes of the previous meeting was approved. The Secretary reviewed the antitrust rules.

# **Report on Ballots**

The Secretary reported on the ballots results for CPack-79.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BALLOT  | APPROVE | DISAPPROVE | ABSTAIN | **COMMENTS** |
| CPack-79 | 18 | 2 | 5 | 27 |
| Sup 156 | 14 | 0 | 5 | 2 |
| Sup 167 | 16 | 0 | 4 | 1 |

# **CPack-79 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-79** | **Assigned to** | **Review of Comments & Discussion**  | **Disposition** |
| 1031 | Use of OIDs and Non-ASCI Characters in Codes | R. Horn | JAN 12 2015 – See discussion below the table. Keep UC rather than changing to LO or UTJAN 6 2015: See discussion below the tableNOV 2014: Cannot avoid braking implementations. Version 7 was prepared during the meeting and approved for LBSEPT 2014: Lengthy discussion and revision of CP. Version 05 was approved for LB. more below the tableJUNE 2014: Will use DICOS tags, will rename code value. consider the tag Why are we introducing UC? Why 1023 code values.On Hold: Discuss when R. Horn is present. MARCH 2014: SNOMED-larger character limit. 16 character limit is a problem: discussed the failure modes resulting from this. KOD noted that it would be helpful to receive feedback from implementers. D Clunie expressed concerns about this direction. It was noted that so far codes are alphanumeric | FT |
| 1403 | 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  |
| 1404 | Correct Condition on Exposure in Projection X-Ray RDSR | D Clunie  | JAN 12 2015::JAN 6 2015: DFT NOV 2014: vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1405 | Replace BI-RADs codes that have SNOMED equivalents | D Clunie  | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1406 | Add codes for tumor sites | D Clunie | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1407 | Add diffusion tractography related sites | D Clunie  | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp3 version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1408 | Add NeuroNames as Coding Scheme | D Clunie  | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1409 | Add Conformance Storage Media Categories | D Clunie  | JAN 12 2015:JAN 6 2015: comments accepted DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1410 | Clarify Lossy Image Compression Ratio | D Clunie  | JAN 12 2015:JAN 6 2015: comments accepted DFTNOV 2014: vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1411 | Reserved Group for Known Safe Private Elements | D Clunie  | JAN 12 2015: incorporate GE #4 proposal w/suggested dummy values & explicit VR Passed ballot but must reballotJAN 6 2015: GE negative vote resolved, NOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | AS |
| 1412 | LOINC code updates in SR templates and context groups | D Clunie  | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp2 version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1417 | Clarify use and declaration of private mapping resource | D Clunie  | JAN 12 2015:JAN 6 2015: DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
| 1419 | Correct Sequence Level of Procedure Step Cancellation DateTime | U Busch | JAN 12 2015:JAN 6 2015: DFTNOV 2014: vp version approved for LBJUNE 2014: New, received CP number | FT |
| 1422 | Correct High Bit value description in various IODs | D Clunie  | JAN 12 2015JAN 6 2015: Comments accepted, revised to allow single bit images. DFTNOV 2014: . vp version approved for LBSEPT 2014: Approved for Nov. VP | FT |
|  |  |  |  |  |

CP discussions referenced in table above:

CP-1031 JAN. 6

 Comments by GE Healthcare and Siemens were reviewed and accepted. Revisions were made by D Clunie accordingly in the DFT version (Clarify Code Values being out of scope.) The discussion was incomplete on post-coordination, VRs, etc

CP-1031 JAN. 12-16

 Short codes would disallow post coordinated codes. Decided UC instead of LO or UT.

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

The CPs listed below have either been approved for the Jan. VP at the Nov. 2014 meeting or have been readied for this Voting Package, following the Nov. 2014 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 80) 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=remains assigned]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title**  | **Assigned to** | **Discussion** | **Disposition** |
| 1420 | Support for Multi Slab Block in Ion Plan | U Busch | Jan 12 2015:Jan 6 2015: Confirmed VP NOV 2014: Version 4 to VPJUNE 2014: New, received CP number | LB |
| 1421 | Support for Mean Excitation Energy In Structure Physical Properties | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 03 to VPJUNE 2014: New, received CP number | LB |
| 1424 | Add Series entity present in Real-World Model but missing in Information Model figure | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VP:NOV 2014: version 1 approved for VP | LB |
| 1425 | Tab character should be permitted be in text VRs (ST, LT, UT) | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1426 | Correct condition in Pixel Measures, Plane Position and Orientation Functional Groups for Segmentation | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 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  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1428 | Use Pixel Measures in Enhanced US Volume | D. Clunie | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1429 | Tiled Image Box in Structured Display | A. Leontiev | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: no version noted approved for VP | LB |
| 1430 | Add Motion Mode Definition Module | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 07 to VPSEPT 2014 – NEW: | LB |
| 1434 | Additional SSD Information | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 04 to VPSEPT. 2015-NEW: | LB |
| 1435 | Correct errors in State Diagram of Hosted Applications | D. Clunie | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 01 to VP | LB |
|  |  |  |  |  |

# **Letter Ballot CPack-80**

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-80 Title** | **Assigned to** |  |  |
| 1420 | Support for Multi Slab Block in Ion Plan | U Busch | Jan 12 2015:Jan 6 2015: Confirmed VP NOV 2014: Version 4 to VPJUNE 2014: New, received CP number | LB |
| 1421 | Support for Mean Excitation Energy In Structure Physical Properties | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 03 to VPJUNE 2014: New, received CP number | LB |
| 1424 | Add Series entity present in Real-World Model but missing in Information Model figure | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VP:NOV 2014: version 1 approved for VP | LB |
| 1425 | Tab character should be permitted be in text VRs (ST, LT, UT) | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1426 | Correct condition in Pixel Measures, Plane Position and Orientation Functional Groups for Segmentation | D. Clunie  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 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  | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1428 | Use Pixel Measures in Enhanced US Volume | D. Clunie | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: version 1 approved for VP | LB |
| 1429 | Tiled Image Box in Structured Display | A. Leontiev | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: no version noted approved for VP | LB |
| 1430 | Add Motion Mode Definition Module | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 07 to VPSEPT 2014 – NEW: | LB |
| 1434 | Additional SSD Information | U Busch | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 04 to VPSEPT. 2015-NEW: | LB |
| 1435 | Correct errors in State Diagram of Hosted Applications | D. Clunie | JAN 12 2015:Jan 6 2015: Confirmed VPNOV 2014: Version 01 to 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** |
| 145 | Curve Data Value Representation Clarification | D. Clunie | JAN 12 2015:Changes retired section – no longer relevant | Cancelled |
| 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 |
| 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 |
| 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 |
| 812 | Clarification that Pixel Padding Value Is a Raw Value before Any Transformations  | D. Harvey | JAN 12 2015: Clunie to take action, moved to VP | VP |
| 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 |
| 934 | Fix Inconsistency of C-FIND Only Number of Patient Related XXX Attributes | D. Harvey | JAN 12 2015: DC found text from D Harvey, will add text. Moved to VP | VP |
| 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 |
| 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 |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | JAN 12 2015: should be CP-991 Follow-up with R. Horn | AS |
| 1106 | Assign a Namespace for Audit Schema Elements | R. Horn | JAN 12 2015: Follow-up with R. Horn | AS |
| 1126 | Corrections LOINC Codes Sup78 | B. Revet | JAN 12 2015: Follow-up with W. Corbijn, reassigned to W. Corbijn from B Revet | 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 |
| 1217 | Add Extensible SR SOP Class for new types of Content Item | D. Clunie | Jan 12 2015: Turned into Sup 186JUNE 2014: Discussion: SR was created for rendering but was given up for rendering and intended for machine consumption. SCOORD3D was a defined and was added. Let’s wait till next defined need or show increased needs. Continue to discuss when D Clunie present.AUGUST 2013: should there also be a Supplement developed instead of a CP? Discussed what warning might need to be given if content is not understood. The question was posed whether this should be pursued. It was noted that SR cannot handle many JUNE 2013 discussion: Postponed discussion when D Clunie and R Horn are present in Aug++++++++++++++++++++++++++++++content such as vectors (e.g. BP waveform.) Members were concerned of safety but acknowledged the value of this CP. Another value is the advancement of SR in general. This CP could add contents of the Evidence Document. It was suggested to include a few illustrations. | Cancelled |
| 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 |
| 1321 | Add Telecom Addresses | R Horn | Jan 12 2015: reassigned to R Horn, he will research, DC will produce next version | VP |
| 1322 | Add Consulting Physician | H Solomon | JAN 12 2015: re- assigned from A Leontiev to HS  | VP |
| 1323 | Clarify Audit Code Meanings | R Horn | JAN 12 2015: Follow-up with R. Horn. Last discussion: Clarify Codes | AS |
| 1349Kevin and Florian | Link from still picture to video | B Revet to D. Clunie | JAN 12 2015: version 01, 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 |
| 1357 | Allow Unicode Katakana in alphabetic name group | H Solomon | JAN 12 2015: re- assigned from A Leontiev to HS | VP |
| 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 |
| 1402 | Add UI Value Representation to Hanging Protocol Selector attributes | J Philbin | JAN 12 2015: | VP |
| 1413 | Add UCUM license terms  | A Leontiev | JAN 12 2015:add LOINC & UCUM will do a CP for SNOMEDJUNE 2014: New, received CP number | VP |
| 1416 | Update to use SNOMED codes | A Leontiev | JAN 12 2015:JUNE 2014: New, received CP number | VP |
| 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 |
| 1436 | Clarification Of Verification Control Point Meterset | U Busch | JAN 12 2015: | VP |
| 1437 | ClarificationOfBeamDoseScope\_02 | U Busch | JAN 12 2015: | VP |
| 1438 | OmittedBeamsSequenceInBDI\_02 | U Busch | JAN 12 2015: | VP |
| 1439 | ClarificationofRTImagePosition\_03 | U Busch | JAN 12 2015: | VP |
| 1440 | Correct HL7 CX component name references | A Leontiev | JAN 12 2015: | VP |
| 1441 | Add UPS scheduled output destination | K ODonnell | JAN 12 2015: currently in UPS can specify source but not destination | AS |
| 1442 | Typos in UPS specification | K ODonnell | JAN 12 2015: | VP |
| 1443 | Additional N-GET Service for UPS Push | K ODonnell | JAN 12 2015: | VP |
|  |  |  |  |  |

**CP-1349 discussion.**

F Knicker and K O’Donnell are cooperating in finalizing this CP. The following draft was presented: cp1349\_lb\_r1-KOD\_FK-3.docx (posted in the ‘CP/Assigned’ folder of the meeting folder. The changes desired can be solved by retrieving metadata and using the frame time data. Referencing Video by still frame is the objective.

# **VP-Next (Voting Package for March 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** |  |  |
| 812 | Clarification that Pixel Padding Value Is a Raw Value before Any Transformations  | D. Harvey | JAN 12 2015: Clunie to take action, moved to VP | VP |
| 934 | Fix Inconsistency of C-FIND Only Number of Patient Related XXX Attributes | D. Harvey | JAN 12 2015: DC found text from D Harvey, will add text. Moved to VP | VP |
| 1321 | Add Telecom Addresses | R Horn | Jan 12 2015: reassigned to R Horn, he will research, DC will produce next version | VP |
| 1322 | Add Consulting Physician | H Solomon | JAN 12 2015: re- assigned from A Leontiev to HS  | VP |
| 1357 | Allow Unicode Katakana in alphabetic name group | H Solomon | JAN 12 2015: re- assigned from A Leontiev to HS | VP |
| 1402 | Add UI Value Representation to Hanging Protocol Selector attributes | J Philbin | JAN 12 2015: | VP |
| 1413 | Add UCUM license terms  | A Leontiev | JAN 12 2015:add LOINC & UCUM- will do a CP for SNOMEDJUNE 2014: New, received CP number | VP |
| 1416 | Update to use SNOMED codes | A Leontiev | JAN 12 2015:JUNE 2014: New, received CP number | VP |
| 1436 | Clarification Of Verification Control Point Meterset | U Busch | JAN 12 2015: | VP |
| 1437 | ClarificationOfBeamDoseScope\_02 | U Busch | JAN 12 2015: | VP |
| 1438 | OmittedBeamsSequenceInBDI\_02 | U Busch | JAN 12 2015: | VP |
| 1439 | ClarificationofRTImagePosition\_03 | U Busch | JAN 12 2015: | VP |
| 1440 | Correct HL7 CX component name references | A Leontiev | JAN 12 2015: | VP |
| 1442 | Typos in UPS specification | K ODonnell | JAN 12 2015: | VP |
| 1443 | Additional N-GET Service for UPS Push | K ODonnell | JAN 12 2015: | VP |
|  |  |  |  |  |

#  **CPs discussed that remain “Assigned”**Copied from Tables 3, 4 and 6 for convenient reference.

# AS=assigned / remains assigned

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Dis-position** |
| 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 |
| 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 |
| 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 |
| 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 |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | JAN 12 2015: should be CP-991 Follow-up with R. Horn | AS |
| 1106 | Assign a Namespace for Audit Schema Elements | R. Horn | JAN 12 2015: Follow-up with R. Horn | AS |
| 1126 | Corrections LOINC Codes Sup78 | B. Revet | JAN 12 2015: Follow-up with W. Corbijn, reassigned to W. Corbijn from B Revet | 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 |
| 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 |
| 1349Kevin and Florian | Link from still picture to video | B Revet to D. Clunie | JAN 12 2015: version 01, 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 |
| 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 |
| 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 |
| 1411 | Reserved Group for Known Safe Private Elements | D Clunie  | 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 | AS |
| 1441 | Add UPS scheduled output destination | K ODonnell | JAN 12 2015: currently in UPS can specify source but not destination | AS |
|  |  |  |  |  |

# **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 as “Assigned”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP# assigned** | **New Correction Proposals -- Title** | **Assigned to** | **Discussion**  | **File ID** |
| 1444 | Add additional dental view sets to Structured Display | A Casertano | JAN 12 2015: NewInformative Annex is helpful. Should this be a CP or Sup? Opinion: CP because it is backward compatible | cp14xx Dec 16 2014 V6 |
| 1445 | Remove In-Stack Position text from figure C.7.6.16-3 | D Clunie | JAN 12 2015: New | CP WC update figure C.7.6.16-3 |
| 1446 |

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

 | D Clunie | JAN 12 2015: New | cp\_dac272\_prohibitcirculardimensionindex |
| 1447 | Clarify 8 bit in Extended JPEG Transfer Syntax | D Clunie | JAN 12 2015: New | cp\_dac273\_clarify8bitinextendedjpeg3 |
| 1448 | Add blood normalized IAUC codes  | D Clunie | JAN 12 2015: New | cp\_dac274\_IAUCBN |
| 1449 | Clarify Modality Device Code Definitions | D Clunie | JAN 12 2015: New | cp\_dac275\_modalitydevicecodedefintiions |
| 1450 | Correct media application profile description with respect to compression | D Clunie | JAN 12 2015: New | cp\_dac276\_bdmediacompression |
| 1451 | Remove retired Point Index List attributes in PS3.5 Annex A | B Nolte | JAN 12 2015: New | CP\_hb\_FollowUpCP1365\_RetirePointIndexListAttributesPart5 |
| 1452 | Correct Recommended Presentation Opacity explanation | B Nolte | JAN 12 2015: New | CP\_hb\_Recomm\_Presentation\_Opacity\_explanation |
| 1453Cancelled | Add UCUM license terms | A Leontiev | JAN 12 2015 :Cancelled, duplicate of CP-1413 | CP\_HS76\_ucum |
|  | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | JAN 12 2015: New | cp\_RT74\_PatientMedicalModuleToUPSIOD |
| 1454 | Add color space attribute | D Clunie | JAN 12 2015: NewOptional alternative | CP\_WG13\_ColorSpace.doc |
| 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. 3 AAPM TGs ae working at cross purposes | CP 14xx Radiation Dose Nov 26 |
| 1456 | Add Operator Identification Sequence to Series Modules | D Clunie | JAN 12 2015: New | cp\_dac271\_operatorsequencertseries |
| 1457 | Identification of pre-clinical research small animal subjects | D Clunie | JAN 12 2015: New | cp\_dac277\_smallanimalidentification |
| 1458 | Value representation of real world value first and last values mapped | D Clunie | JAN 12 2015: New | cp\_dac278\_rwvmvr |
| 1459 | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | JAN 12 2015: New | cp\_RT74\_PatientMedicalModuleToUPSIOD |
| 1460 | Add Ion Range and Modulation Definition | U Busch | JAN 12 2015: New | cp\_RT75\_IonRangeAndModulation\_05.doc |
| 1461 | Add B1RMS value to MR Enhanced and MR Object | W Corbijn | JAN 12 2015: New | cp\_BH\_MR B1RMS.doc |
|  |  |  |  |  |

# **New CPs Submitted– Rejected**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP# assigned** | **New Correction Proposals -- Title** | **Assigned to** | **Discussion**  | **File ID** |
|  | NONE REJECTED |  |  |  |

Note: The comprehensive list of all CPs (including all FT and cancelled) is posted in this meeting’s folder. Following this meeting the list will also be posted in the “Overviews…” folder of the public ftp directory: ftp://medical.nema.org/MEDICAL/Dicom

# **CPs on Hold**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Status** |
| 375 | Correct CID 4017 | K O’Donnell | B Revet (BR) will refer to WG-22 for SNOMED codes.Need SNOMED codes, CID # and UIDs | FT Passed, On hold |
| 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 HornA Leontiev | Correct example of Chinese encoding | A Leontiev | 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. | On Hold |
| 1403A Leontiev | 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**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Status** |
| 145 | Curve Data Value Representation Clarification | D. Clunie | JAN 12 2015:Changes retired section – no longer relevant | Cancelled |
| 1217 | Add Extensible SR SOP Class for new types of Content Item | D. Clunie | Jan 12 2015: Turned into Sup 186JUNE 2014: Discussion: SR was created for rendering but was given up for rendering and intended for machine consumption. SCOORD3D was a defined and was added. Let’s wait till next defined need or show increased needs. Continue to discuss when D Clunie present.AUGUST 2013: should there also be a Supplement developed instead of a CP? Discussed what warning might need to be given if content is not understood. The question was posed whether this should be pursued. It was noted that SR cannot handle many JUNE 2013 discussion: Postponed discussion when D Clunie and R Horn are present in Aug++++++++++++++++++++++++++++++content such as vectors (e.g. BP waveform.) Members were concerned of safety but acknowledged the value of this CP. Another value is the advancement of SR in general. This CP could add contents of the Evidence Document. It was suggested to include a few illustrations. | Cancelled |
| 1453Cancelled | Add UCUM license terms | A Leontiev | JAN 12 2015 :Cancelled, duplicate of CP-1413 | CP\_HS76\_ucum |
|  |  |  |  |  |

# **ACTION Items and Other Discussions-**

# Action Items relative to CPs restated:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#**  | **Title** | **Assigned to** | **Discussion** | **Status** |
| RT-55 | cp\_RT55\_IncludeMotionModePermissionInRTToleranceTable\_02.doc  | U Busch | Discuss with WG-21 |  |
| 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 |
| 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 |
| 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 |
| 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 |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | JAN 12 2015: should be CP-991 Follow-up with R. Horn | AS |
| 1106 | Assign a Namespace for Audit Schema Elements | R. Horn | JAN 12 2015: Follow-up with R. Horn | AS |
| 1126 | Corrections LOINC Codes Sup78 | B. Revet | JAN 12 2015: Follow-up with W. Corbijn, reassigned to W. Corbijn from B Revet | 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 |
| 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 |
| 1353 | Secure Transport Connection Profile should allow higher TLS versions | R Horn | JAN 12 2015: Follow-up with R Horn | 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 |
| 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 |
| 1400 | Assign WADO-WS namespace and schema | J Philbin | NOV 2014: Action item remains: register DICOM as URN with IETF SEPT 2014: R Horn mentioned that DICOM has not yet registered the URN asked WG-27 to make registrationJUNE 2014: Approved for VP | FT |
| 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 |
|  |  |  |  |  |

# **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 |
|  |  |  |  |  |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn | JAN 12 2015: should be CP-991 Follow-up with R. Horn | 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 claming UPS Work items AS to another AE | K O’Donnell |  | AS |
| 1319 | Frame Of Reference Reliability | U Busch | 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 type 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 |
|  |  |  |  |  |
| 1411 | Reserved Group for Known Safe Private Elements | D Clunie  | 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 | 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 |
| 1444 | Add additional dental view sets to Structured Display | A Casertano | JAN 12 2015: NewInformative Annex is helpful. Should this be a CP or Sup? Opinion: CP because it is backward compatible | AS |
| 1445 | Remove In-Stack Position text from figure C.7.6.16-3 | D Clunie | JAN 12 2015: New | AS |
| 1446 |

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

 | D Clunie | JAN 12 2015: New | AS |
| 1447 | Clarify 8 bit in Extended JPEG Transfer Syntax | D Clunie | JAN 12 2015: New | AS |
| 1448 | Add blood normalized IAUC codes  | D Clunie | JAN 12 2015: New | AS |
| 1449 | Clarify Modality Device Code Definitions | D Clunie | JAN 12 2015: New | AS |
| 1450 | Correct media application profile description with respect to compression | D Clunie | JAN 12 2015: New | 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 |
|  | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | JAN 12 2015: New | AS |
| 1454 | Add color space attribute | D Clunie | JAN 12 2015: NewOptional alternative | 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 |
| 1456 | Add Operator Identification Sequence to Series Modules | D Clunie | JAN 12 2015: New | AS |
| 1457 | Identification of pre-clinical research small animal subjects | D Clunie | JAN 12 2015: New | AS |
| 1458 | Value representation of real world value first and last values mapped | D Clunie | JAN 12 2015: New | AS |
| 1459 | Add Patient Medical Module to Unified Procedure Step IOD | U Busch | JAN 12 2015: New | AS |
| 1460 | Add Ion Range and Modulation Definition | U Busch | JAN 12 2015: New | AS |
| 1461 | Add B1RMS value to MR Enhanced and MR Object | W Corbijn | JAN 12 2015: New | AS |

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 Letter Ballot.

Editor Harry Solomon presented the Public Comments received by presenting and posting drafts <sup155\_pc+n.docx. in the meeting folder.

The Group discussed the changes to the DICOM Standard and approved the Supplement for Letter Ballot.

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

This was a reading for Final Text.

The LB comments were discussed. Comments from D Clunie were addressed as shown in the files posted for this session: sup156\_PlanarMPR\_20150112\_1030\_StartWG6Session1.docx and sup\_156\_lb\_PixelMed\_20150112\_StartWG6Session1.xlsx

J. Luszcz presented by phone and J Whitby and A. Klingler also assisted by phone. Joe presented the WG-11 discussion of D. Clunie’s comments. The discussion of comments included:

* Removed exclusion of segmentation SOP Class (line 393.)

#### Definition of “sufficiently small” (line 409.) The notes in the Section: C.11.x2.1 Presentation Input Type VOLUME Input Requirements were deleted

* In general, the definitions and the use thereof needs to be tightened up in the supplement development process
* Replaced the term ‘algorythm’ with ‘method’.

 ACTION PROPOSED FOR WG-06: issue advice for the use of the terms ‘method’, ‘algorythm’, ‘function’ in the DICOM Standard.

* Inclusion of arbitrary restrictions are not allowed in DICOM (other than ‘3D’ etc.)
* When defining a segmentation object for cropping, wg-11 may want to constrain it to be sufficient for the use case; because, the segmentation object can be exceedingly complex
* Use of the term ‘clinical’ was questioned as not appropriately accurate. WG-11 changed it to ‘structural’ in some instances. In this session several additional instances were found, discussed and the term ‘clinical’ replaced with various other terms and the term was replaced to discussed and changed. The changes were marked in the posted file: sup\_156\_lb\_PixelMed\_20150112\_StartWG6Session1.xlsx.
* Last comment discussed : comment on Table C.11.x9-1
* Adding to the digital signature profile –

ACTION: WG-06 to discuss the use of such profile and issue advisory. To date digital signatures are not occurring in DICOM use. .

The Supplement will return for FT.

# **Supplement 164, Substance Administration (originally called Injector Record / Contrast Media Dose SR) [Work Item 2011-04-A]**

This was a continued reading for Public Comment. Session 1 was discontinued due to poor audio connection. In session 2 R. Horn projected Version 15.2 and annotated it. . The posted draft version 15.2 was presented by S. Balasubramanian; it was discussed and annotated. Version 16 was posted and captured the revisions. The Editor was asked to check TID 3106 in the current Standard and compare with this Supplement to identify overlaps.

* The modality cannot start storing images before it receives this contrast report. Not clear if it is normative but should be added as a Note in the normative section.
* There should be a section in the Suplement that shows the relationshiop of the IOD. (Swim lane diagram format could be suitable.) The group reviewed the diagram in the draft projected and concluded it should include the full process. Show the modality storing the non-contrast images and later show the storing of contrast images and show where the contrast comes into the project. Discussed that ‘push’ mode from the pump would be useful so the modality can start scanning. (It is probably easyiest for MR, but need to check for CT and US and angiography.) Oral and inhaled contrast are also in the scope but are completely different from the injection pump.
* Washout – need statement as to how washout applies to the objects in this supplement.

The Supplement will return.

1. ****Supplement 167, X-Ray 3D Angiographic IOD Informative Annex) [WI-2005-09-C]****

This was a reading for Final Text.

The Group directed several revisions and approved the Final Text subject to making the revisions.

The Supplement was approved for Final Text.

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

This was a reading for Letter Ballot.

Don Van Syckle is the Editor of this Supplement. The Supplement is proposed on behalf of DICOM WG-09. He was joined by J. Hemert.

The 8 & 16 bit color, separate SOP Classes to allow separate negotiations were discussed at length.

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

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

This was a reading for Public Comment.

Editor J. Philbin presented Sup 174 embedded in the PART 18 (Chapter 10) REDOCUMENTATION

The Supplement will **return.**

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

This was a continued reading for Public Comment. The posted document, <sup175\_CArmRadiations\_03.doc> was presented. The reading stopped at Line 30.

The Supplement will **return**

1. **Supplement 176 –2nd Generation Radiotherapy – Additional RT Treatment modalities. {WI 2007-06-B}**This was a First Read for Public Comment. The document presented was posted as <sup176\_NewRTRadiations\_03.doc> The family of RT supplements was also reviewed.

The reading started at the beginning and stopped at the end of section: C.AA.J2 Robotic Path Module

The Supplement will **return.**

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

This was a reading for Letter Ballot. Editor Karl-Heinz Fleischer posted and presented the sup180\_05.doc.

The following questions and comments were raised during discussion:

* Should a stereo object be added to the Visible Light Video IOD? Currently there is no definition for Left and Right frames. Further, Part 3 does not describe Stereo. WG-06 advised to add Part 3 addition to cover this matter. Da
* Include two transfer syntaxes
* Need to know whether the bitstream is stereo. (the draft 8.2.Y does not define it.)

**ACTION:** D Clunie to specify additional description to Part 3. Will send attributes to Carl-Heinz.

**ACTION:** WG-13 to decide on two transfer syntaxes or definitions of stereo attributes in 8.2.Y. Make the transfer syntaxes more specific rather than have multiple variations.

* Add new transfer syntax for stereo to distinguish from single bit stream.

The above stereo issue will be resolved at a future WG-06 meeting.

WG-06 continued the line-by-line review and directed several revisions that were marked in the Draft 05 presented (posted.)

* Compatibility of MPEG Level 4.2 with STD-GEN-SEC-BD-MPEG4 existing profile was discussed, WG-06 examined implementations in public information to determine existing implementations. Duplicate new Annex M to specify the new 4.2 Profiles .

**ACTION:** D Clunie will create a CP to correct the existing statement regarding readers to decompress.

* Revise sentence on line 154 referencing IEC standards.
* 8 and 16 bit distinction needs to be clear

WG-06 approved the response to public commenter Mati Amit.

The document will **return.**

#  **Supplement 181 – MR Diffusion Tractography Storage SOP Class {WI 2014-08-A}**

This was a First Read.

Editor Sven Flossmann presented < sup181.pptx > to explain the field and concepts including that the new IOD was patterned after the Surface Segmentation IOD. D. Flade, J. Reuss, M. Fonte, E. Seeberger, and Sonja Pujol of this Working Group joined the editor by phone. Thereafter he presented the draft < sup181\_11\_MR\_Diffusion\_Tractography\_Storage.docx>.

# ***Scope and Field of Application***

*This Supplement to the DICOM Standard specifies a new DICOM Information Object for storing magnetic resonance diffusion tractography (MR DT) results (tracks and measurements), which is referred to as MR Diffusion Tractography IOD. It also includes the corresponding Storage SOP Class so that this IOD can be used for network and media storage exchanges.*

*During the last decades, new MRI and computational methods have emerged that provide invaluable information about white matter fiber tracts in healthy and diseased brains. An MR diffusion acquisition sequence (e.g. EPI, HARDI, etc.) collects data reflecting the diffusivity of water and the directionality of its movement. Based upon a model of diffusion in tissue (e.g. simple tensor, multiple-tensor, etc.) this information can be used by tracking algorithms to estimate the pathways followed by the white matter fiber tracts. The widespread adoption of MR diffusion measurement in the clinical workflow, particularly diffusion tensor imaging (DTI) and tractography, has opened an entirely new non-invasive window on white matter connectivity of the human brain and spinal cord.*

*MR diffusion tractography uses magnetic resonance imaging and software which is specialized to detect water diffusion in tissue. Molecular diffusion refers to the random movement of molecules (Brownian motion). In densely packed white matter the direction of diffusion is mainly restricted to the local direction of fiber tracts. MRI diffusion imaging is able to quantify diffusion of water along certain directions, typically on a spatial grid with a resolution of 2mm. The commonly-used diffusion tensor model is a simple model that is able to describe the statistical diffusion process accurately at most white matter positions. To calculate diffusion tensors, a base-line MRI without diffusion-weighting and at least six differently weighted diffusion MRIs have to be acquired. After some preprocessing of the data, at each grid point a diffusion tensor can be calculated. This gives rise to a tensor volume that is the basis for tracking. Later refinements to the diffusion model and acquisition method include HARDI, Q-Ball, diffusion spectrum imaging (DSI) and diffusion kurtosis imaging (DKI). These have expanded the directionality information available beyond the simple tensor model, enhancing tracking through crossings, adjacent fibers, sharp turns, and other difficult scenarios.*

*A tracking algorithm produces tracks (i.e. fibers) which are collected into track sets. A track contains the set of x, y and z coordinates of each point making up the track. Depending upon the algorithm and software used, additional quantities like Fractional Anisotropy (FA) values or color etc. may be associated with the data, by track set, track or point, either to facilitate further filtering or for clinical use. Descriptive statistics of quantities like FA may be associated with the data by track set or track.*

*Examples of tractography applications include:*

* *Visualization of white matter tracks to aid in resection planning or to support image guided (neuro)surgery;*
* *Determination of proximity and/or displacement versus infiltration of white matter by tumor processes;*

*Assessment of white matter health in neurodegenerative disorders, both axonal and myelin integrity, through sampling of derived diffusion parameters along the white matter tracks.*

It was also decided that the members of this Subgroup will distribute the Draft to a number of specialists in the field.

The Supplement was authorized for public distribution to solicit P**ublic Comments**.

# **Supplement 182 – Curved and Straightened Volumetric Presentation State** **{WI 2008-04-C}**

This was the first reading of this supplement for PC.

The Work Item is the same as that of Sup 156. The size and complexity of the draft, during the development, became excessive in size and complexity, hence it was decided to submit these additions in three parts. Part 1-Sup156, Part 2-Sup182, PART 3-Supxxx-Volume Rendering.

Joe Luszcz presented <Sup182\_CurvedStraightenedMPR\_20150112\_1330\_StartWGSession1.docx>. Andreas Klingler and Jonathan Whitby supported the presentation.All three were joining by phone and web meeting.

***Scope and Field of Application (partial)***

*This supplement adds a SOP Class for Curved and Straightened MPR Volumetric Presentation State to the DICOM Standard.*

*The new SOP Class will allow rendering of 3D volumes which may be represented as any of the following structures:*

*SOP Classes in which a single instance may represent 3D volume datasets, such as XA-3D or many of the Enhanced SOP Classes which by convention allow a collection of instances within a common Frame of Reference to contain spatially related frames that together comprise a 3D volume dataset. This is commonly done within the CT and MR modalities.*

*3D data may be used in a variety of ways, including quantification through a variety of volume-based algorithms and presentation through a variety of display algorithms, such as frame-by-frame viewing, multi-planar reformatting slicing, surface and volume rendering, and the like. When a volume presentation is created through the use of a Display Algorithm, it typically requires a set of Display Parameters that determine the specific presentation to be obtained from the volume data. Persistent storage of these Display Parameters used by a Display Algorithm to obtain a presentation from a set of volume-related data is called a Volumetric Presentation State.*

The Figures in the draft were discussed at length. WG-06 suggested to WG-11 to work with JR Consulting; Principal Jim Rodgers prepares the drawings for the newly formatted DICOM Editions. WG-11 should coordinate the feasible illustrations for this challenging topic. (Introductions were made in e-mail by S. Vastagh.)

After the discussion the group identified additional components that can be added to the Figures to improve clarity (e.g. ribbon to Figure C.11.x5-1.) Other illustrations from published literature were also shown by J. Luszcz.

WG-06 conducted a lengthy discussion about the illustrations. Alternative illustrations were proposed by WG-06 members.

The Supplement 182 will return for PC.

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

This was a First Read.

Editor James Philbin presented <sup183\_part18\_redocumentation\_v0.2.docx> which was posted in the meeting folder. The comments and directions of WG-06 were annotated in the draft resulting in < sup183\_part18\_redocumentation\_v0.2\_end\_of\_meeting.docx>.

It was decided that the term “DICOMweb” will be used for education and outreach. The Standard will continue to use the term “web services.”

The Supplement will **return.**

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

This was the first read.

The draft was presented as posted in the meeting folder as < supnnn\_01\_extensiblesr.pdf>. This is the Supplement version of CP 1217.

***Scope and Field of Application***

*This Supplement adds a new extensible IOD and SOP Class that allows new Content Item types to be used as they are added to the standard.*

*There is an increasing need for new Content Item types (such as SCOORD3D) and these are being added as needed to application-specific IODs and SOP Classes (such as the Colon CAD Supplement 126). There is a need for a generic IOD and SOP Class to allow new applications to make use of these in a general way, yet this conflicts with the requirement to be able to render all content.*

*It is also possible that new Relationship Types will be added, and the IOD also addresses these.*

*A specific conformance requirement is specified, that the user be warned in there is content of a type that the rendering software does not recognize or understand.*

*This is consistent with the approach used in other extensible formats like PDF, in which software tools like Acrobat Reader warn about unrecognized content when faced with newer versions.*

After discussion the Group approved the Supplement for **Public Comment.**

1. **New Business**

There was no new business discussed.

1. **Future Meetings**

* March 23-27, 2015, Arlington, MITA HQ, VA, USA
* 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 March 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-2014-11-14.xlsx

The comprehensive list of all Supplements (sorted by Supp. Number) is posted in this meeting’s folder: Supstat-2014-11-14.xlsx

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 January 16, 2015.

Submitted by Stephen Vastagh, Secretary

Reviewed by Clark Silcox, Legal Counsel

1. Added several CPs to Tables 5 and 12, Scope&Field of Application to 1st Read Sups, Sup 175, and spelling. [↑](#footnote-ref-1)