|  |  |
| --- | --- |
| Description: Description: O:\LOGOS\DICOM\DICOM LOGO - MEDIUM.tif | **1300 North 17th Street, Suite 1752Arlington, VA 22209, USA****+1-703- 841-3281**[http://dicom.nema.org](http://dicom.nema.org/)E-mail: **dicom@medicalimaging.org** |

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

###### DICOM WORKING GROUP SIX

(Base Standard)

**June 17-21, 2013**

### MITA HQ, Arlington, VA

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

ACR James Philbin x x x

Agfa Healthcare Robert Horn x x x x x

CoreLab David Clunie x

GE Healthcare Andrei Leontiev x x x x

JIRA Makoto Suzuki x x

Konica Minolta Med. Imaging Michael Laconti x x x x

Philips Healthcare Bas Revet 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**

\*Carl Zeiss Medical Software Tobias Kurzke

\*Merge Healthcare Ronald Cowan

**Alternate Voting Representatives,**

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

Balasubramenian, Shridar Contrast Ad-Hoc/Bayer x x

Balance, Dennis WG-25/ p

Busch, Ulrich WG-07/Varian p

Casertano, Andrew WG-22/SAW Consulting x

Corbijn, Wim WG-16, Philips p

Culp, Timothy WG-27/Harris Corp x x

Generaux, Brad WG-27/AGFA Healthcare p

Kalafut, John Contrast Ad-Hoc/Bayer x x

Keyes, Janet WG-15/Hologic x

Klyce, Stephen WG-22/Software Port x x

Kanzaki, Masatoshi Sup 124/JIRA/RealVision x x

Mattijssen, Henri WG-16, Philips p

Nakamura, Tatsushi Sup 124/JIRA/Toyo Corp. x

Solomon, Harry WG-08, WG-01/GE p

Van Sycle, Don WG-09/ DVS Consulting x x

Vastagh, Stephen MITA x x x x x

Whitby, Jonathan WG-27, WG-10/Vital Images x x x x

Zeller, Greg WG-22/ADA x

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

**Presiding Officer:** Bas Revet, Chair

# **Opening**

The Chair called the meeting to order at 08.30 on June 17, 2013. A quorum was present. Members approved the agenda. The minutes of the April 2013 meeting were approved. The Secretary reviewed the antitrust rules.

# **Report on Ballots**

Committee Secretary Stephen Vastagh reported on the ballots distributed following the April 2013 meeting of WG-06. The ballots passed.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BALLOT  | APPROVE | DISAPPROVE | ABSTAIN | **COMMENTS** |
| CPack 71 | 20 | 1259 (1), 1266 (2) | 8 | 16 |
| Sup157 | 21 | 1 | 5 | 4 |

# **Discussion: CPs in last Letter Ballot CPack-71 - Review of the Comments, Disposition**

The CPs in the Letter Ballot CPack-71 are listed below together with discussion of comments and decision on Final Text or other disposition.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP** | **Name** |  | **Consideration of Comments and History of Discussions** | **Dis-position** |
| 1219 | Clarify Completion Flag for Dose SR  | H. Solomon | Comment accepted.April 2013: Lengthy discussion took place with HS and DAC participating by phone: Can one define complete? Dose-yes. Ultrasound exam –partial until radiologist signs off. The value of the flag was discussed R Horn poster version -01 and v-02. Revised and approved for LBFeb. 2013: RHorn and H Solomon to make new proposal | FT |
| 1220 | Editorial Corrections for PS3.16 | H. Solomon | Changes have been made by B. Revet and approvedComments reviewed in April 2013 were very detailed and require more work that will be completed by the June 2013 meeting of WG-06 by B Revet.Feb. 2013:Corrects typos. Noted that XML will catch such typos. | FT |
| 1248 | Indication for deformed RT Dose | U Busch | Comment acceptedAPR. 2013: reviewed & approved revised draft.FEB 13: Rigid and Nonrigid was discussed. Needs more specifics.NOV 12: Reversing capability needs to be discussed | FT |
| 1256 | Add defined term for MPEG4 | D. Clunie | Comment accepted. | FT |
| 1257 | Row and Column offset tags swapped in Whole Slide Imaging | D. Clunie | Corrects typo | FT |
| 1258 | Refactor segment description, extend segment types and anatomy | D. Clunie | Comment accepted.APRIL 2013: discussed having attribute for anatomy in two places.FEB. 2013 Was again discussed with D Clunie.NOV 2012: Adds macro for segmentation and adds codes for different types of tissues. See Context ID 716x. Reviewed on Monday and reviewed again on Wednesday | FT |
| 1259 | Add Medical Subject Headings (MeSH) as Coding Scheme | D. Clunie |  | FT |
| 1260 | Frame Increment Pointer for Enhanced Images | D. Clunie | The CP clarified pointer.  | FT |
| 1261 | Other Double 64 Bit Floating Point Value Representation | D. Clunie | NOV. 2012: R. Horn recalled the past request for new value and that WG-06 was negative. Double would make more sense for large dynamic ranges. | FT |
| 1262 | Distinguish JPEG Interchange Format from JPEG File Interchange Format | D. Clunie | June 2013- AGFA comment states need for additional new CPNOV. 2012: R. Horn noted the need for return to this issue for the RESTful supplement.  | FT |
| 1263 | Relax rescale restrictions for Multi-frame Grayscale Word IOD to allow use as parametric maps | D. Clunie | Moves constraint to SOP Class specific.  | FT |
| 1264 | Define exact windowing functioning for use with small rescaled pixel values | D. Clunie |  | FT |
| 1265 | References to slices on which segmentation was performed | D. Clunie |  | FT |
| 1266 | Extend SR Image Library with cross-sectional content items | D. Clunie | June 2013: Negative votes discussed. Extensible/non-extensible templates – good point. No interoperability issues because in the image library. Definition is understandable when viewed in context. FEB. 2012: Discussed with D Clunie.NOV. 2012: Postponed till Discussion with D Clunie | FT |
| 1267 | Video streams are independent and may not span instances | D. Clunie |  | FT |
| 1269 | Add Target Information for Mammography Biopsy | Bas Revet/Janet Keyes | Group confirmed need for target | FT |
| 1270 | Correct Reference in C-Find Protocol Specification | U Busch |  | FT |
| 1271 | Corrections for IEEE Nomenclature | A. Leontiev | APRIL 2013: D Clunie asked whether this means that the IEEE Code cannot be used without license? HS confirmed the opposite, and noted that reportedly IEEE allows the use through NIST; however, no documented agreement was found. The purpose of CP is general clean-up not the IEEE issue. It was noted that a specific note in DICOM would be helpful: HS added specific text and will further review during then letter ballot process. FEB 2013: R. Horn: Should there be a note to include reference to agreement btw DICOM and SNOMED?  | FT |
| 1272 | DCID for Referenced Frame | A. Leontiev | This is a way to macros to get overridden. | FT |
| 1273 | Navigation Sequence Item references one frame | A. Leontiev |  | FT |
| 1275 | Correct PS3.19 example | A. Leontiev |  | FT |
| 1276 | Correction of Description of Reference to Recorded Wedge Number | U. Busch | Corrected format | FT |
| 1277 | Correction of Intraoperative Applicator Type In Ion Beam | U. Busch | Corrected format | FT |
|  |  |  |  |  |

WG-06 decided and voted unanimously to approve, as **final text**, the CPs as marked above.

# **Discussion of CPs in the Voting Package for June 2013**

The CPs listed below have either been proposed for the June VP, at the past meetings, or have been proposed for the VP by being posted in the VP directory of this meeting’s folder. The CPs listed below were reviewed and discussed. The CPs were approved by unanimous vote for inclusion in Letter Ballot (CPack 72) or directed for further work or review as shown below.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Voting Package for June 2013 -- Title** | **Assigned to** | **Highlights of discussions**  | **Disposition** |
| 375 | Correct CID 4017 | K O’Donnell | June 2013: Group discussed Version 10 by Dave Clunie. It was decide to use RT codes until SNOMED assigns. See additional discussion below. APRIL 2013: HS suggested a slow transition. WG-06 encourages DVS to work with H. Solomon and make a new version, correct typos. Is this a DICOM issue?A revised version was posted  | LB |
| 1173 | Clarify basis for Total Fluoro Time and Total Acquisition Time in XA Dose Report | K O’Donnell | Removed diagram from CP; move to Annex. | LB |
| 1268 | Additional Registration Input Information | U Busch | U. Busch is adding sequence. | LB |
| 1279 | Structural MR known safe private elements and codes for structures | D Clunie | New CP being introduced. Revised accordinglyAPRIL 2013 – Suggested to split into 2 CPs: privacy and codes. Privacy is ready for VP. Sec. note: Make 1279 privacy, change title to remove ‘codes’ ; make new CP for ‘codes’ New CP 1306 | LB |
| 1280 | Breast tomo known safe private elements | D Clunie |  | LB |
| 1281 | Correct wrong SNOMED View codes | D Clunie |  | LB |
| 1283 | Cleanup Lossy Image Compression descriptions and conditions | D Clunie | APRIL 13: Comment on changing Type 2 – legacy equipmen t cannot make change. Also discussed lossy image compression at length: HS clarified that the purpose it to inform the radiologist whether the image is compressed. Needs more discussion. FEB 13: Noted that new supplements also need changing.  | LB |
| 1284 | Correct Typos in X-Ray 3D IODs | Bas Revet |  | LB |
| 1286 | Additional Report Section Names | H Solomon | Stylistically goes against DICOM’s own conviction about retiring.APRIL 13: Discussed transitioning to using LOINC as the primary coding system for CID 7001. Concluded to make switch. Table needs rewritten. Andrei will rewrite. | LB |
| 1289 | Note on transitivity of registrations | U Busch |  | LB |
| 1291 | Additional Derivation Codes For Dose Composition | U Busch |  | LB |
| 1292 | Concept Code For Beam Delivery Instructio | U Busch | APRIL 13: Rewrite the definition | LB |
| 1293 | Remove Invocation Statement For Scheduled Parameters | U Busch | June 2013: It is possible to to specify CIDs in an Macro invocation; however there was no procedure specified.APRIL 13: DC suggested this proposal | LB |
|  |  |  |  |  |

# **Letter Ballot CPack-72**

WG-06 decided unanimously to submit for legal review and thereafter circulate in a **Letter Ballot CPack 72,** for vote by the DICOM Standards Committee, the Correction Proposals (CPs) listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Letter Ballot to Be Issued CPack-72 – Title** |  |  |  |
| 375 | Correct CID 4017 | K O’Donnell |  |  |
| 1173 | Clarify basis for Total Fluoro Time and Total Acquisition Time in XA Dose Report | K O’Donnell |  |  |
| 1268 | Additional Registration Input Information | U Busch |  |  |
| 1279 | Structural MR known safe private elements and codes for structures | D Clunie |  |  |
| 1280 | Breast tomo known safe private elements | D Clunie |  |  |
| 1281 | Correct wrong SNOMED View codes | D Clunie |  |  |
| 1283 | Cleanup Lossy Image Compression descriptions and conditions | D Clunie |  |  |
| 1284 | Correct Typos in X-Ray 3D IODs | Bas Revet |  |  |
| 1286 | Additional Report Section Names | H Solomon |  |  |
| 1289 | Note on transitivity of registrations | U Busch |  |  |
| 1291 | Additional Derivation Codes For Dose Composition | U Busch |  |  |
| 1292 | Concept Code For Beam Delivery Instructio | U Busch |  |  |
| 1293 | Remove Invocation Statement For Scheduled Parameters | U Busch |  |  |
|  |  |  |  |  |

# **Discussion of assigned CPs (CPs in the “Assigned” meeting folder and other previously assigned CPs)**

(The table below records discussion of CPs that were NOT in the last Letter Ballot CPack 71 (Table 3) and were NOT in the current (June 2013) Voting Packet (Table 4.)

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Title** | **Assigned to** | **Discussion** | **Dis-position** |
| 1127 | Add Fields for Organ Dose to Dose SR | K. O’Donnell | June 2013: WG-28 will work on this CP. Wg-28 is not the final arbiter, just one voice. There is an opinion in WG-28 that RDR has too much data and another higher level or more focused extract is needed. It was decided that this CP will remain assigned | AS |
| 1223 | Additional Items for Dose SR (by IEC PT 61910-1) | B. Revet | June 2013: H Blendinger will have mtg with IEC and could bring back CP later. Kept in the VP subject to input from WG-02.APR 2013 – Need more discussion with WG-02NOV 2012-The Chair noted that a t-con is needed between WG-06 and WG-02 and the IEC Committee members (H Blendinger, Chair) to discuss the terminology used. The t-con should be organized in early January 2013. | VP |
| 1274 | Type 1 SQ Empty Items in Functional Groups | D Clunie | APRIL 2013: DC will amend CP to include Type 1FEB. 2013: Noted that IHE is starting to check for correctness of objects which will stop these kinds of problems. Need to discuss in WG-06 more  | VP |
| 1294 | Add "Intended Purpose" and "Echo Peak Position" to the Enhanced Spectroscopy object and include explanation for Zero Fill mechanism | Bas Revet | June 2013: Work continues in WG-16. Kept in the VP subject to input from WG-16. | VP |
| 1295 | De-identification method code meaning too long | D Clunie |  | VP |
| 1296 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie |  | VP |
| 1297 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie |  | VP |
| 1298 | Update description of Detector ID de-identification | D Clunie |  | VP |
| 1299 | Add volume based calculation technique for tomosynthesis | D Clunie | June 2013: Discussed with WG-15. This is complex and WG-15 needs to review it. | VP |
| 1300 | Include PPS End Date & Time in Composite IODs and de-identification | D Clunie |  | VP |
| 1301 | Clarify Distance Source to Patient in Mammo and CR | D Clunie |  | VP |
| 1302 | Correct example of Chinese encoding | A Leontiev | Discussed the carat issue and added to CP draft | VP |
| 1303 | Correct HAS CONCEPT MOD-NUM relationships | A Leontiev |  | VP |
| 1304 | Various corrections related to MPEG-4 AVC/H.264 Transfer Syntax | D. Clunie |  | VP |
| 1305 | Correct TID 10001 template structure figure | B Revet |  | VP |
| 1306 |  | D Clunie | This is Part 2 (CID) of CP 1279. See April 2013 mtg. | VP |
|  |  |  |  |  |

# **VP (Voting Package) for August 2013**

Based on discussions and decisions as recorded in Tables 3, 4, and 6, the Voting Package for August 2013 is: (CPs are copied from previous tables for convenient reference.)

VP=for next meeting’s voting package

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CP# | Title | Assigned | Discussion | Disposition |
| 1223 | Additional Items for Dose SR (by IEC PT 61910-1) | B. Revet | June 2013: H Blendinger will have mtg with IEC and could bring back CP later. Kept in the VP subject to input from WG-02.APR 2013 – Need more discussion with WG-02NOV 2012-The Chair noted that a t-con is needed between WG-06 and WG-02 and the IEC Committee members (H Blendinger, Chair) to discuss the terminology used. The t-con should be organized in early January 2013. | VP |
| 1274 | Type 1 SQ Empty Items in Functional Groups | D Clunie | APRIL 2013: DC will amend CP to include Type 1FEB. 2013: Noted that IHE is starting to check for correctness of objects which will stop these kinds of problems. Need to discuss in WG-06 more  | VP |
| 1294 | Add "Intended Purpose" and "Echo Peak Position" to the Enhanced Spectroscopy object and include explanation for Zero Fill mechanism | Bas Revet | June 2013: Work continues in WG-16. Kept in the VP subject to input from WG-16. | VP |
| 1295 | De-identification method code meaning too long | D Clunie |  | VP |
| 1296 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie |  | VP |
| 1297 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie |  | VP |
| 1298 | Update description of Detector ID de-identification | D Clunie |  | VP |
| 1299 | Add volume based calculation technique for tomosynthesis | D Clunie | June 2013: Discussed with WG-15. This is complex and WG-15 needs to review it. | VP |
| 1300 | Include PPS End Date & Time in Composite IODs and de-identification | D Clunie |  | VP |
| 1301 | Clarify Distance Source to Patient in Mammo and CR | D Clunie |  | VP |
| 1302 | Correct example of Chinese encoding | A Leontiev | Discussed the carat issue and added to CP draft | VP |
| 1303 | Correct HAS CONCEPT MOD-NUM relationships | A Leontiev |  | VP |
|  |  |  |  |  |

#  **List of Assigned CPs that were discussed at this meeting and remain “Assigned”**As recorded in Tables 4, 5, and 6 (CPs are copied from previous tables for convenient reference)

# AS=assigned / remains assigned

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Dis-position** |
| 1127 | Add Fields for Organ Dose to Dose SR | K. O’Donnell | June 2013: WG-28 will work on this CP. Wg-28 is not the final arbiter, just one voice. There is an opinion in WG-28 that RDR has too much data and another higher level or more focused extract is needed. It was decided that this CP will remain assigned | AS |
|  |  |  |  |  |

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP# assigned** | **New Correction Proposals -- Title** | **Assigned to** | **Discussion**  | **File ID** |
| 1307 | MR rescaling known safe private elements | D. Clunie |  | Dac-224 |
| 1308 | Correct code meaning of Density in Mammography CAD SR | D. Clunie |  | Dac-225 |
| 1309 | Correct references to other standards | A Leontiev |  | HS-64 |
| 1310 | Provide succinct definition of DICOM | A Leontiev |  | HS-65 |
| 1311 | Prohibit \* and ? in Patient ID and Name | A Leontiev |  | HS-66 |
| 1312 | Add Report Titles to CID 7000 | A Leontiev |  | HS-67 |
| 1313 | Wrong reference in KOS Document | U Busch |  | RT-42 |
| 1314 | Add Category Code Sequence to RT Structure Set | U Busch |  | RT-45 |
| 1315 | Common Instance Reference Module is mandatory in VL Whole Slide Microscopy IOD | U Busch |  | RT-46 |
|  |  |  |  |  |

# **New CPs Submitted– No CP Number Assigned**

None

Note: The comprehensive list of all CPs (including all FT and cancelled) is posted in this meeting’s folder.

# **Other Discussions- CP Related or prompted by CP Discussions**

#  11.1 Length of field

#  At the last meeting J. Philbin noted that AE Title and Station Names of 16 Characters are too short for human readable implementation. It was reiterated that a CP should be introduced to move this discussion forward.

* 1. UMLS

It was suggested that a specification should be written for UMLS. This would increase DICOM’s visibility and usability in the other domains. The paper should clarify who would benefit from the specification.

ACTION: WG-10 to develop plan to approach the organization that maintains UMLS.

11.3 CP-375

The discussion on this CP continued from the previous meeting. Now the Group discussed Version 10 by David Clunie. Greg Zeller, A. Casertano as well as Dennis Balance, Co-Chair of WG-25 joined the meeting. Dennis noted that WG-25 had been faced with the issue of SNOMED CT vs. RT style years ago. SNOMED informed Greg that the next international edition will include dental concepts. Next release of RT Codes is in July. It was noted that SNOWMED concept IDs will be retained in the international issue. The 17 v 19 character is a separate issue from the codes.

DICOM uses RT codes, changing would break installed base. Users switched to SNOWMED concept ID’s.

DICOM tries not to break previous versions but it is not guaranteed. One must look at the SOPs supported and at the conformance statement. DICOM does better with this approach to backward compatibility than standards using versioning.

Change VR from Code Value. 90% of developers are known, can be contacted.

At the conclusion it was decided that a Version 11 is authorized for letter ballot.

# **CPs on Hold**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** |  |
| 1071 | Additions to various CIDs of Supplement 78 | B. Revet | Waiting for SNOMED Codes | ON HOLD |

# **List of all remaining assigned CPs at the end of this WG-06 meeting**

(AS=assigned)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** |  |
| 145 | Curve Data Value Representation Clarification | D. Clunie |  | AS |
| 235 | Clarify NM detector start angle usage | J. Pohlhammer |  | 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 |
| 450 | Correct Myocardium Mass |  | Note: submitter was Doug Sluis | AS |
| 464 | Add SOP Common to the Print-related N-CREATEs | R. Horn |  | 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 |  | 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 |  | AS |
| 804 | Indicator for Cone Beam CT | K. O’Donnell |  | AS |
| 811 | Note for Forwarders Regarding SCP-assigned Instance UIDs during N-CREATE  | D. Harvey |  | AS |
| 812 | Clarification that Pixel Padding Value Is a Raw Value before Any Transformations  | D. Harvey |  | AS |
| 833 | Transfer Syntax Availability and Selection for Q/R  | R. Horn |  | AS |
| 836 | Clarify Usage of Attributes for Normalized IODs | K. O’Donnell |  | AS |
| 838 | Consistent Naming of Error Code Tables | K. O’Donnell |  | AS |
| 934 | Fix Inconsistency of C-FIND Only Number of Patient Related XXX Attributes | D. Harvey |  | AS |
| 941 | More Clarification of Instance References | D. Clunie |  | AS |
| 991 | Clarify Handling of Private Data in the Retrieve Without Bulk Data Service | R. Horn |  | AS |
| 992 | Clarify Allowable Length Values for Certain PDUs | K. O’ Donnell |  | AS |
| 1005 | Make Keywords Valid Java/C Identifiers | R. Horn |  | AS |
| 1006 | Add Keywords to Command Dictionary | R. Horn |  | AS |
| 1013 | RT Ion Beams Recording Clarifications | WG-07 |  | AS |
| 1019 | Add Body Part at the Study Level | K O’Donnell |  | AS |
| 1030 | Re-factor Common Attributes for Enhanced Images | B. Revet |  | AS |
| 1031 | Use of OIDs and Non-ASCI Characters in Codes | R. Horn |  | AS |
| 1032 | Fix Position Angle Sign Inconsistency in Mammography Image | K. O’Donnell |  | AS |
| 1066 | Encoding of Attributes with Value Length > 64KiB with Explicit VR | R. Horn |  | AS |
| 1086 | New DICOMDIR ZIP File Extension | R. Horn |  | AS |
| 1106 | Assign a Namespace for Audit Schema Elements | R. Horn |  | AS |
| 1115 | Add Dose Reference Point Codes for CR/DR | K. O’Donnell |  | AS |
| 1126 | Corrections LOINC Codes Sup78 | 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 |  | AS |
| 1196 | Add phantom-specific Total DLP Values to allow for Head and Body in same RDSR scope of accumulation | D. Clunie | Need to be discussed in WG-21  | AS |
| 1203 | PDR Pulse Details in RT Brachy Session Record | U. Busch |  | AS |
| 1207 | Change Multi-frame Dimension module usage to “User Option” for IVOCT IOD | B. Revet | Tom Probasco-WG-06 needs more information and examples for when it is meaningful [BR to contact TP]  | AS |
| 1208 | Clarify the unambigous use of Private Creator Data | B. Revet | 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 | June discussion: Postponed discussion when D Clunie and R Horn are present in Aug++++++++++++++++++++++++++++++August: 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 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.  | 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 Workitems AS to another AE | K O’Donnell |  | AS |
| 1274 | Type 1 SQ Empty Items in Functional Groups | A. Leontiev | APRIL 2013: DC will amend CP to include Type 1FEB. 2013: Noted that IHE is starting to check for correctness of objects which will stop these kinds of problems. Need to discuss in WG-06 more  | AS |
| 1278 | Additional cardiac image types for enhanced CT | D Clunie |  | AS |
| 1282 | Value Multiplicity of Positioner Increments in 3D X-Ray and Breast Tomo | D Clunie | APRIL 2013: revision not yet madeFEB 2013: Needs more work before VP.. DC will talk to the submitter and J Keyes | AS |
| 1285 | Add Irradiation Event UID to X-Ray 3D IODs | Bas Revet |  | AS |
| 1287 | Add Structure Classification Code to RT Structure Set | U Busch | APRIL 13: It was mentioned that the use of ‘enhanced’ may be confusing with multiframe. Other issues have been identified. Will be rewritten.FEB 13: Attribute names must be valid. None proposed. | AS |
| 1288 | Add templates and code definitions for QAPV support | U Busch |  | AS |
| 1290 | Correct ROI Physical Property Value for Elemental Composition | U Busch |  | AS |
| 1307 | MR rescaling known safe private elements | D. Clunie |  | AS |
| 1308 | Correct code meaning of Density in Mammography CAD SR | D. Clunie |  | AS |
| 1309 | Correct references to other standards | A Leontiev |  | AS |
| 1310 | Provide succinct definition of DICOM | A Leontiev |  | AS |
| 1311 | Prohibit \* and ? in Patient ID and Name | A Leontiev |  | AS |
| 1312 | Add Report Titles to CID 7000 | A Leontiev |  | AS |
| 1313 | Wrong reference in KOS Document | U Busch |  | AS |
| 1314 | Add Category Code Sequence to RT Structure Set | U Busch |  | AS |
| 1315 | Common Instance Reference Module is mandatory in VL Whole Slide Microscopy IOD | U Busch |  | AS |
|  |  |  |  |  |

**14. Supplement 147 – Second Generation Radiotherapy {WI 2007-06-B}**

This was a continuation of reading for Public Comment. U. Busch presented < sup147\_40 Draft3.doc> . This document included changes directed by WG-06 and made pursuant to WG-07 meetings, held since the April 2013 WG-06 meeting. Due to the small amount of new material, only one review session was schduled.

Several issues were clarified and some could be closed.

On some other issues U. Busch prepared proposals without a prior review with WG-07 to speed up the process. Those have been reviewed and are ready for closure, after WG-07 reviews and accepts those proposals as well.

The result of that review round can be found in the final Version of Supp 147 Revision 40.

WG-07 will start a new Revision: Supp 147 Revision 41 – Draft 1. These can be found

ftp://d9-workgrps@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/Supp147

The Supplement will return to WG-06 for continued reading for Public Comment, at the August 2013 WG-06 meeting.

# **Supplement 156 – Multi-Dimensional Presentation State** **{WI 2008-04-C}**

This was the first comprehensive review of the document; there has been a status update and presentation of concepts earlier. However, this is the First Reading of the more complete document with the revised / reduced scope and field of application. Significant progress by WG-11 has been demonstrated.

The importance of distinction between “presentation” state and “application” state was pointed out by K. O’Donnell as a key to readers to understand the substance and purpose of the supplement.

The Supplement will return to WG-06 for continued reading for Public Comment, at the Oct. 2013 WG-06 meeting.

# **Supplement 157 – Multi-Frame Converted Legacy Images {WI 2011-09-A}**

This was a reading to prepare the Final Text.

D. Clunie posted the draft final text of Supplement <sup157\_dft2.doc> in the meeting folder. This document contained the comments received on the letter ballot. They were discussed as follows:

* The comment on prohibiting concatenations was discussed and it was agreed that they should remain prohibited
* The comments about the likelihood/complexity of implementations were noted but have already been discussed as a known risk.
* The negative comment suggesting that a mixture of original and converted studies could cause loss of information was considered an unlikely scenario, since the conversion is required to include all information, and the different forms of the information are both equally valid and complete and represent the same "truth"; the related comment about the preferred approach being for vendors to adopt the true enhanced images has not proven successful over many years, and it is hoped that the intermediate solution in the supplement may enable a stepwise transition process.

The Supplement 157 was approved for **Final Text**.

# **Supplement 163, STOW (Store Over the Web) [WI-2011-09-B]**

WG-27 processed the public comments and revised the Supplement accordingly. T. Culp presented posted document sup163\_10\_STOW-RS. Group discussion revised (sup163\_10.1\_STOW-RS.docx).

The chief revisions of the Public Comment Draft included:

* Added two new DICOM Tags, WarningReason and RetrieveURL, to include in the response body.
* Added example failure codes in Conformance section.
* Added example XML message.

The Group completed a line-by-line review and unanimously approved the Supplement for **Letter Ballot**.

In the course of the discussion the Group defined and assumed a WG-06 Action item:

ACTION: WG-06 will develop a CP concerning the “Source of Previous Value” attribute:

Add CP (to SOP Common) to clarify whether it’s the source of the instance or source of the value. And clarify source in terms of “creator” vs “sender”.

# **Supplement 164 – Contrast Agent Administration Reporting [WI-2011-04-A]**

This was a continuation of reading for Public Comment.

In the first session S. Balasubramanian presented the document sup164 V13.1.docx, posted in the meeting folder.

Lengthy technical discussion followed including the topics:

* Proposed to rename “Contrast Agent Administration Reporting” to “Substance Administration Report” -  This would reflect better, our objective of accommodating recording of radio-pharmaceutical administration for NM imaging in addition to CT, MR, XA, US. Workgroup agreed, authors to check with Harry Solomon.
* Proposed change in Modality type in sup164 to ‘IA’ (Imaging Agent) from ‘CM’ (Contrast Media). Discussed on including in Part3. Workgroup agreed.
* Proposal to add new SR IOD (“Defined Substance Administration SR”) for recording defined protocols. This IOD is non-patient specific, similar to hanging protocol IOD. Workgroup agreed.
* Proposed to rename ‘Scheduled’ Contrast Agent Admin. SR IOD to ‘Planned’ Substance Admin. SR IOD, in harmony with other protocol management concepts. Workgroup agreed.
* Supplement 164 and 159 will share templates for recording radio-pharmaceutical administration
* Discussed whether to have the additional SR IOD for “Substance Administration Plan SR” - Workgroup then decided to have this as template, instead of a separate SR IOD, to make it simple.
* Discussed about including ‘handheld administration’ concept under Administration Mode (CID xxxx8)
* Workgroup proposed Grade number for recording Adverse events. Supplement authors to work on grade number and definition
* Workgroup discussed to add more concept under Substance Administration Completion Status (CID xxxx15)

The post discussion document, posted on June 18, following the session  sup164\_Contrast\_Agent\_Admin\_Reporting\_v13.1.docx

The Supplement will **return** to WG-06 for continued reading, in August 2013.

# **Supplement 165, Breast Projection X-Ray Image Storage SOP Class [WI-2012-06-B]**

This was a reading for approval for Public Comment.

Janet Keyes presented the document <sup165\_14.doc> , which was posted in the meeting folder.

The Group reviewed, discussed, and directed revisions, which were incorporated in <sup165\_15.doc>.

The substantive comments and directions included:

* Add three open issues: 1) Check clarity and agreement on Positioner Primary / Secondary Angle positive angle direction in Breast X-Ray Positioner macro attribute descriptions based on X-Ray Source Coordinate System angle definitions; 2) Question the usefulness and content of a Relationship to Patient Coordinate System section for the Breast X-Ray Isocenter Reference System macro; 3) Check Defined Terms for Positioner Motion and Type of Detector Motion for completeness.
* Add a Breast Tomosynthesis Image IOD Content Constraints section to state the required isocenter coordinate system to use in the Image – Equipment Coordinate Relationship module, instead of adding a note in the module description.
* Include the existing XA/XRF Frame Pixel Data Properties macro for reference, since it is referenced in an open issue.

After reviewing the changes WG-06 has approved the Supplement for **Public comment.**

# **Supplement 166, QIDO-RS (Query based on ID for DICOM Objects by RESTful Services) [WI-2011-09-B]**

This was a continuation of reading for PC.

J. Whitby presented the document <sup166\_09-1\_QIDO-RS.docx>. Many changes were made since the previous reading in April 2013.

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

# **Supplement 168, Corneal Topography Mapping Storage [WI-2006-04-F]**

This was a second read of the draft Supplement. Don Van Syckle and Stephen Klyce of Software Port returned to make the presentation.

Significant technical discussions were conducted.

Sup168 was approved for **Public Comment.**

# **Future Meetings**

* T-con, prior to the August 2013 meeting - – at the call of the Chair
* Meeting Aug. 12-16, 2013 in Stockholm, Sweden
* T-con, prior to the Oct meeting – at the call of the Chair
* Meeting Oct. 14-18, 2013 in Arlington, VA

# **Next Meeting Agenda**

A detailed agenda for the next meeting (Aug. 2013) has been prepared and distributed.

# **Adjournment**

The meeting recessed at 17.30 daily and resumed at 08.30 the next day. The meeting was adjourned at 12.00, on June 21, 2013.

Reported by: Stephen Vastagh, Secretary

Reviewed by counsel: CRS 2013-07-26

1. Added ACTION Item to 11.2 [↑](#footnote-ref-1)