|  |  |
| --- | --- |
| 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

###### DICOM WORKING GROUP SIX

(Base Standard)

**Oct. 15-19, 2013**

### 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

GE Healthcare Andrei Leontiev x x x x

Konica Minolta Med. Imaging Michael Laconti x x x x

PixelMed David Clunie p p p p

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

**Members Not Present Voting Representative**

\*Carl Zeiss Medical Software Tobias Kurzke

JIRA Yukio Ito

\*Merge Healthcare Ronald Cowan

**Alternate Voting Representatives,**

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

Balasubramanian, Sridhar Contrast Ad-Hoc/Bayer x x x

Busch, Ulrich WG-07/Varian x x x x p

Genereaux, Brad WG-27/Agfa Healthcare x x

Keyes, Janet WG-15/Hologic x x p

Klingler, Andreas WG-11/Siemens x x x

Luszcz, Joe WG-11/Philips x x x

Morgan, Paul WG-11/Fujifilm x x x

Schadt, Christof WG-07/Brainlab x x x

Seeberger, Elmar WG-11/Siemens x x x

Sureda, Francisco WG-02/GE Healthcare p p

Van Sycle, Don WG-09/ DVS Consulting p

Vastagh, Stephen MITA x x x x x

Whitby, Jonathan WG-27, WG-10/Toshiba x x 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 October 152, 2013. A quorum was present. Members approved the agenda with the addition of discussion of the development of a Chinese DICOM-related standard. The minutes of the August 2013 meeting were approved with editorial changes. The Secretary reviewed the antitrust rules.

# **Report on Ballots**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BALLOT  | APPROVE | DISAPPROVE | ABSTAIN | **COMMENTS** |
| CPack 73 | 23 | 5 | 8 | 11 |
| Sup166 | 22 |  | 4 | 7 |
| Sup 168 | 23 |  | 3 | 2 |

# **CPs for Final Text: CPs in the last Letter Ballot (CPack-73) and other CPs (e.g. CPs on Hold.) - Review of the Comments, Disposition of the CP**

The Group reviewed the LB comments and decided on Final Text or other action:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP** | **Title** | **Assigned to** | **Consideration of Comments**  | **Dis-position** |
| CPack 73 |  |  |  |  |
| 1223 | Additional Items for Dose SR (by IEC PT 61910-1) | B. Revet | Hologic comment accepted. H Blendinger will submit new CP. GE comment accepted | FT |
| 1274 | Type 1 SQ Empty Items in Functional Groups | D Clunie | Hologic comment discussed. Consensus reached. | FT |
| 1295 | De-identification method code meaning too long | D Clunie | Comments accepted | FT |
| 1296 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie | No comments | FT |
| 1298 | Update description of Detector ID de-identification | D Clunie | No comments | FT |
| 1299 | Add volume based calculation technique for tomosynthesis | D Clunie | Decided to follow Hologic comment request. New CP is on this meeting’s agenda; Fujifilm comment will be considered in the context of the new CP. GE negative was addressed by the foregoing. WG-06 decided that no reballot was needed. | FT |
| 1300 | Include PPS End Date & Time in Composite IODs and de-identification | D Clunie | No comment | FT |
| 1301 | Clarify Distance Source to Patient in Mammo and CR | D Clunie | No comment | FT |
| 1302 | Correct example of Chinese encoding | A Leontiev | Discussed negative by China in CPack 73. Discussed returning to ASCII. Noted that Part 5 does not call for =.ACTION: R. Horn to check | On Hold |
| 1303 | Correct HAS CONCEPT MOD-NUM relationships | A Leontiev | No comment | FT |
| 1304 | Various corrections related to MPEG-4 AVC/H.264 Transfer Syntax | B Revet | Note: changed assignment to BRDiscussed negative by DRG in CPack 73. ACTION: Original submitter will be consulted by B. Revet.Hologic comment accepted. | On Hold |
| 1305 | Correct TID 10001 template structure figure | B Revet | Hologic comment accepted. | FT |
| 1306 | Structural brain MR codes | D Clunie | GE comment accepted. UID will be added. | FT |
| Other CPs |  |  |  |  |
| 1268 | Additional Registration Input Information | U Busch | Passed LB in CPack 72. FT was on hold pending adding attribute tag by C. Schadt.  | FT  |
|  |  |  |  |  |

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

# **Discussion of CPs in the Voting Package (VP) for October 2013**

The CPs listed below has either been proposed for the October 2013 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 the next Letter Ballot (CPack 74) 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 Oct 2013 -- Title** | **Assigned to** | **Highlights of discussions**  | **Disposition** |
| 1287 | Add Structure Classification Code to RT Structure Set | U Busch | OCT 2013: Discussed, UB will prepared vp02 version based on D Clunie commentsAUG 2013: move to VPAPRIL 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. | LB |
| 1291 | Additional Derivation Codes For Dose Composition | U Busch | OCT 2013: Discussed vp3. U. Busch prepared vp4 by making minor corrections.AUG 2013: Negative ballot in CP-72 will re-ballot in different context, substantial changes | LB |
| 1294 | Add "Intended Purpose" and "Echo Peak Position" to the Enhanced Spectroscopy object and include explanation for Zero Fill mechanism | Bas Revet | OCT 2013: Discussed vp2 decided revisions; W Corbijn prepared a vp3 and posted. WG-06 approved for LB subject to re-approval by WG-16.AUG 2013: remanded to WG-16 for clarification of water reference.JUNE 2013: Work continues in WG-16. Kept in the VP subject to input from WG-16. | LB |
| 1297 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie | OCT 2013: Discussed vp version. D Clunie posted new version. Included A Leontiev comment (3D) and J Philbin comment (STOW)AUG 2013: wait for more discussion with D Clunie | LB |
| 1307 | MR rescaling known safe private elements | D. Clunie | OCT 2013: approved for LBAUGUST 2013: O’Donnell and A Leontiev commented that inclusion of private tags should be further discussed | LB |
| 1308 | Correct code meaning of Density in Mammography CAD SR | D. Clunie | OCT 2013: approved for LB | LB |
| 1309 | Correct references to other standards | A Leontiev | OCT 2013: approved for LB | LB |
| 1310 | Provide succinct definition of DICOM | A Leontiev | OCT 2013: Decided to shorten proposed summary description of DICOM to read in essence: DICOM is a std for mgt of communication of medical imaging and related data. Rationale: not to inadvertently limit scope of DICOM for the future. Andrei made revision | LB |
| 1311 | Prohibit \* and ? in Patient ID and Name | A Leontiev | OCT 2013: Comprehensive discussion took place and it was decided to change the patient ID to prohibit use of “\*” and “?” Andrei made new version of CP. Discussion included: CP not breaking anyone but makes query more difficult, PT ID comes from HIS-DICOM has no control, should point out that if present there are consequences in DICOM, where best to add note, if added to Part 4 developers of objects would not see it, this issue can only be fixed at the source (HIS), R Horn will propose a CP in ITI. Change will be to Part 4 only.AUGUST 2013: more discussion is needed w/ D Clunie | LB |
| 1312 | Add Report Titles to CID 7000 | A Leontiev | OCT 2013: approved for LB | LB |
| 1313 | Wrong reference in KOS Document | U Busch | OCT 2013: approved for LB | LB |
| 1314 | Add Category Code Sequence to RT Structure Set | U Busch | OCT 2013: Discussed, a new version will be prepared by C. Schadt. Decided to keep in VP for Jan 2014. D Clunie argued that this forces an unintended use of an attribute; he would prefer creating a new attribute. D Clunie further suggested that certain coordination and consolidation and possible extension may be needed to best accommodate the radiation therapy use cases/community AUGUST 2013: discussed to use segmentation | VP  |
| 1315 | Common Instance Reference Module is mandatory in VL Whole Slide Microscopy IOD | U Busch | OCT 2013: approved for LB | LB |
|  |  |  |  |  |

# **Letter Ballot CPack-74**

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-74 Title** | **Assigned to** |  |  |
| 1287 | Add Structure Classification Code to RT Structure Set | U Busch |  |  |
| 1291 | Additional Derivation Codes For Dose Composition | U Busch |  |  |
| 1294 | Add "Intended Purpose" and "Echo Peak Position" to the Enhanced Spectroscopy object and include explanation for Zero Fill mechanism | Bas Revet |  |  |
| 1297 | Correct incorrect Acquisition Start Time attribute name in NM | D Clunie |  |  |
| 1307 | MR rescaling known safe private elements | D. Clunie |  |  |
| 1308 | Correct code meaning of Density in Mammography CAD SR | D. Clunie |  |  |
| 1309 | Correct references to other standards | A Leontiev |  |  |
| 1310 | Provide succinct definition of DICOM | A Leontiev |  |  |
| 1311 | Prohibit \* and ? in Patient ID and Name | A Leontiev |  |  |
| 1312 | Add Report Titles to CID 7000 | A Leontiev |  |  |
| 1313 | Wrong reference in KOS Document | U Busch |  |  |
| 1315 | Common Instance Reference Module is mandatory in VL Whole Slide Microscopy IOD | 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 73 (Table 3) and were NOT in the current (Oct 2013) Voting Packet (Table 4.)

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** | **Dis-position** |
| 1282 | Value Multiplicity of Positioner Increments in 3D X-Ray and Breast Tomo | D Clunie | OCT 2013: reviewed vp05APRIL 2013: revision not yet madeFEB 2013: Needs more work before VP. DC will talk to the submitter and J Keyes | VP |
| 1285 | Add Irradiation Event UID to X-Ray 3D IODs | Bas Revet | OCT 2013: reviewed vp07. Discussion included: macro use may be better, why not use functional group, relate irrad events to frames, saved as v08. ACTION: Bas will take back to WG-02  | VP |
| 1290 | Correct ROI Physical Property Value for Elemental Composition | U Busch | OCT 2013: U Busch will revise at ROI physical property AUG 2013: Currently misused, WG-07 fix would allow wrong practice of entering filler value  | VP |
| 1292 | Concept Code For Beam Delivery Instruction | U Busch | OCT 2013: Changes made. Vp2 approved for Jan. VPAUG 2013: Negative vote in CPack 72: substantial comments for WG 07 to discuss next meeting. KOD advised to copy from Sup 124 solution. Was placed on hold | VP |
| 1316 | Clarify exact windowing function | D Clunie | OCT 2013: Approved for VP | VP |
| 1317 | Refactor Accumulated Projection X-Ray Dose Templates | D Clunie | OCT 2013: Approved for VP | VP |
| 1318 | RDSR From MPPS Without Exposure Dose Sequence for Projection Radiography | D Clunie | OCT 2013: Approved for VP | VP |
| 1319 | Frame Of Reference Reliability | U Busch | OCT 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 |
| 1324 | Add a new Value Representation for URI/URLs | J Philbin | OCT 2013: keep assigned | AS |
| 1325 | Add Contrast Relaxivity (MR) information to Enhanced Contrast/Bolus module | B Revet | OCT 2013: v02 approved for VP | VP |
| 1326 | Volume to Transducer Mapping transformation may not be constant | B Revet | OCT 2013: approved for VP | VP |
| 1327 | Correct Type of Wedge Position Sequence | U Busch | OCT 2013: approved for VP | VP |
| 1328 | Range of Angular Values using IEC Geometry Definitions | U Busch | OCT 2013: U Busch prepared new v03; approved for VP | VP |
| 1329 | Add Indication For Dose Of Delivery | U Busch | OCT 2013: approved for VP | VP |
| 1330 | RT Image Attribute Completion | U Busch | OCT 2013: approved for VP | VP |
|  |  |  |  |  |

# **VP (Voting Package) for January 2014**

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** |  |  |
| 1282 | Value Multiplicity of Positioner Increments in 3D X-Ray and Breast Tomo | D Clunie |  |  |
| 1285 | Add Irradiation Event UID to X-Ray 3D IODs | Bas Revet |  |  |
| 1290 | Correct ROI Physical Property Value for Elemental Composition | U Busch |  |  |
| 1292 | Concept Code For Beam Delivery Instruction | U Busch |  |  |
| 1314 | Add Category Code Sequence to RT Structure Set | U Busch |  |  |
| 1316 | Clarify exact windowing function | D Clunie |  |  |
| 1317 | Refactor Accumulated Projection X-Ray Dose Templates | D Clunie |  |  |
| 1318 | RDSR From MPPS Without Exposure Dose Sequence for Projection Radiography | D Clunie |  |  |
| 1325 | Add Contrast Relaxivity (MR) information to Enhanced Contrast/Bolus module | B Revet |  |  |
| 1326 | Volume to Transducer Mapping transformation may not be constant | B Revet |  |  |
| 1327 | Correct Type of Wedge Position Sequence | U Busch |  |  |
| 1328 | Range of Angular Values using IEC Geometry Definitions | U Busch |  |  |
| 1329 | Add Indication For Dose Of Delivery | U Busch |  |  |
| 1330 | RT Image Attribute Completion | U Busch |  |  |
|  |  |  |  |  |

#  **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** |
| 1319 | Frame Of Reference Reliability | U Busch | OCT 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 |
| 1324 | Add a new Value Representation for URI/URLs | J Philbin | OCT 2013: keep 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** |
| 1332 | Standardization of DIXON Image and Frame Types | B Revet |  | Cpwg16 |
| 1333 | CFind Extended Negotiation add Timezone Query Adjustment | B Nolte |  | CFind SOP |
| 1334 | Clarify work list extended negotiation after Sup 157 | D Clunie |  | Dac230 |
| 1335 | Clarify SR Frame of Reference for SCOORD3D and TCOORD IODs | D Clunie |  | Dac231 |
| 1336 | Use LOINC code for Key Image in Template | D Clunie |  | Dac232 |
| 1337 | Add Isocenter Position to MR/PET/Enhanced CT/MR/PET and RT Equipment Correlation to Enhanced CT | D Clunie |  | Dac233 |
| 1338 | Move Body Substance from Type to Category for Segmentation | D Clunie |  | Dac234 |
| 1339 | Add various new dates, times, serial numbers and UIDs for de-identification | D Clunie |  | Dac235 |
| 1340 | Add For Litigation KOS Reason | D Clunie |  | Dac236 |
| 1341 | Add Series Purposes of Reference | A Leontiev |  | HS 71 |
| 1342 | Extend Image Type for Breast X-Ray Image IODs | J Keyes |  | CP Image. |
| 1343 | Add Patient Photo to Patient Identification Modules | R Horn | OCT 2013: Discussion included: not permanent, should it be a URL, reviewed past decision, extends to MPPS and UPS, scope is broader than RT | RT 47 |
| 1344 | Clarify Type Requirements In Unified Worklist | K O’Donnell | OCT 2013: At June mtg Kevin, Andre, and Uli discussed and concluded need for this CP | RT 48 |
| 1345 | Add Related UPS Sequence | K O’Donnell |  | RT 49 |
| 1346 | Add Table Information to X-Ray 3D IODs | B Revet |  | CP wg-02 |
| 1347 | Add a new attribute to describe the direction of a scan relative to the patient | B Revet or D Clunie |  | CP wg-03 |
| 1348 | Correct Reference in Retrieval Of Entire Composite Instances | B Revet |  | Panasonic |
| 1349 | Link from still picture to video | B Revet |  | Panasonic |
| 1350 | Add WADO-RS as a retrieval mechanism for referenced Instances | J Philbin |  | CP wg-27 KOS |
| 1351 | Add JSON support to WADO-RS RetrieveMetadata and STOW-RS services | J Philbin |  | CP wg-27 JSON |
| 1352 | Add Series- and Instance-level metadata retrieval to WADO-RS | J Philbin | OCT 2013: FHIR Imaging resource | CP wg-27 Metadata |
|  |  |  |  |  |

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

“Add optional SearchForPatient service to QIDO-RS” CP wg-27 QIDO. J. Philbin proposed this CP. The group discussed that the use case is limited. In IHE PT level issues are handled by the enterprise. There are standards for PT level query. Is there a need for another gratuitous service? WG-27 to discuss with ITI and return to WG-06.

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

# **CPs on Hold**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#** | **Title** | **Assigned to** | **Discussion** |  |
| 375 | Correct CID 4017 | K O’Donnell | B Revet (BR) will refer to WG-22 for SNOMED codes | FT Passed, On hold |
| 1071 | Additions to various CIDs of Supplement 78 | B. Revet | Waiting for SNOMED Codes | FT Passed, On hold |
| 1302 | Correct example of Chinese encoding | A Leontiev | OCT 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 |
| 1304 | Various corrections related to MPEG-4 AVC/H.264 Transfer Syntax | B Revet | Note: changed assignment to BRDiscussed negative by DRG in CPack 73. ACTION: Original submitter will be consulted by B. Revet.Hologic comment accepted. | On Hold |
|  |  |  |  |  |

# **ACTION Items and Other Discussions- CP Related or prompted by CP Discussions**

# Action Items relative to CPs:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CP#**  | **Title** | **Assigned to** | **Discussion** |  |
| 1302R. Horn | Correct example of Chinese encoding | A Leontiev | OCT 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 |
| 1304 B. Revet | Various corrections related to MPEG-4 AVC/H.264 Transfer Syntax | B Revet | Note: changed assignment to BRDiscussed negative by DRG in CPack 73. ACTION: Original submitter will be consulted by B. Revet.Hologic comment accepted. | On Hold |
| 1311R. HornCLindopJ Moehrke | Prohibit \* and ? in Patient ID and Name | A Leontiev | OCT 2013: Comprehensive discussion took place and it was decided to change the patient ID to prohibit use of “\*” and “?” Andrei made new version of CP. Discussion included: CP not breaking anyone but makes query more difficult, PT ID comes from HIS-DICOM has no control, should point out that if present there are consequences in DICOM, where best to add note, if added to Part 4 developers of objects would not see it, this issue can only be fixed at the source (HIS), R Horn will propose a CP in ITI. Change will be to Part 4 only.AUGUST 2013: more discussion is needed w/ D Clunie | LB |
| 1285B Revet | Add Irradiation Event UID to X-Ray 3D IODs | Bas Revet | OCT 2013: reviewed vp07 Discussion included: macro use may be better, why not use functional group, and relate irrad events to frames, saved as v08. ACTION: Bas will take back to WG-02  | VP |
|  |  |  |  |  |
|  |  |  |  |  |

# **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 unambiguous 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 Work items 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 |
|  |  |  |  |  |
| 1288 | Add templates and code definitions for QAPV support | U Busch |  | AS |
| 1319 | Frame Of Reference Reliability | U Busch | OCT 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 |  | AS |
| 1321 | Add Telecom Addresses | A Leon-tiev |  | AS |
| 1322 | Add Consulting Physician | A Leon-tiev |  | AS |
| 1323 | Clarify Audit Code Meanings | R Horn | Clarify Codes | AS |
| 1324 | Add a new Value Representation for URI/URLs | J Philbin |  | AS |
| 1331 | Treatment Time in RT Plan | U Busch |  | AS |
| 1332 | Standardization of DIXON Image and Frame Types | B Revet |  | AS |
| 1333 | CFind Extended Negotiation add Timezone Query Adjustment | B Nolte |  | AS |
| 1334 | Clarify worklist extended negotiation after Sup 157 | D Clunie |  | AS |
| 1335 | Clarify SR Frame of Reference for SCOORD3D and TCOORD IODs | D Clunie |  | AS |
| 1336 | Use LOINC code for Key Image in Template | D Clunie |  | AS |
| 1337 | Add Isocenter Position to MR/PET/Enhanced CT/MR/PET and RT Equipment Correlation to Enhanced CT | D Clunie |  | AS |
| 1338 | Move Body Substance from Type to Category for Segmentation | D Clunie |  | AS |
| 1339 | Add various new dates, times, serial numbers and UIDs for de-identification | D Clunie |  | AS |
| 1340 | Add For Litigation KOS Reason | D Clunie |  | AS |
| 1341 | Add Series Purposes of Reference | A Leontiev |  | AS |
| 1342 | Extend Image Type for Breast X-Ray Image IODs | J Keyes |  | AS |
| 1343 | Add Patient Photo to Patient Identification Modules | R Horn | OCT 2013: Discussion included: not permanent, should it be a URL, reviewed past decision, extends to MPPS and UPS, scope is broader than RT | AS |
| 1344 | Clarify Type Requirements In Unified Worklist | K O’Donnell | OCT 2013: At June mtg Kevin, Andre, and Uli discussed and concluded need for this CP | AS |
| 1345 | Add Related UPS Sequence | K O’Donnell |  | AS |
| 1346 | Add Table Information to X-Ray 3D IODs | B Revet |  | AS |
| 1347 | Add a new attribute to describe the direction of a scan relative to the patient | B Revet or D Clunie |  | AS |
| 1348 | Correct Reference in Retrieval Of Entire Composite Instances | B Revet |  | AS |
| 1349 | Link from still picture to video | B Revet |  | AS |
| 1350 | Add WADO-RS as a retrieval mechanism for referenced Instances | J Philbin |  | AS |
| 1351 | Add JSON support to WADO-RS RetrieveMetadata and STOW-RS services | J Philbin |  | AS |
| 1352 | Add Series- and Instance-level metadata retrieval to WADO-RS | J Philbin | OCT 2013: FHIR Imaging resource | AS |
|  |  |  |  |  |

**14. Supplement 121 – Modality Procedure Plan and Protocol Storage {WI 2006-04-E}**

This was a continued reading to approve Sup 121 for Public Comment

The revisions in this document included the discussions from the WG-06 t-con held on 2013-09-10 for the purpose Sup 121 PC approval. The discussion was completed, on Sept. 10; however, due to lack of quorum, approval was not possible.

K. O’Donnell (KOD) presented <Sup121\_PC Prep.docx> (posted in the meeting folder.) R. Horn asked whether the medical record management procedures generally used were considered and suggested to note that this content is not nor intended to be a medical record. The Open and Closed issues have been categorized for easy overview.

After the review of the revisions, WG-06 unanimously approved the document for **Public Comment** subject tomaking the revisions discussed. .

J. Philbin noted that ACR is interested in this Supplement.

Plans for Public Comment Review:

* The Editor, K O’Donnell, will present the draft to the AAPM CT Committee.
* The Editor also asked the WG-07 representatives, U. Busch and C. Schadt to review with a view for RT usage of CT scans.
* J. Philbin and K O’Donnell will work with others at ACR to organize a t-con for all interested ACR members to describe the Sup 121 concepts.
* Considering the busy event calendars it was decided to extend the Public comment deadline to Dec. 20.)
1. **Supplement 147 – Second Generation Radiotherapy {WI 2007-06-B}**

This was a continuation of reading for Public Comment. U. Busch and C. Schadt continued to present <sup147\_42.doc>. This review continued from the point it was stopped at the previous WG-06 meeting.

The items discussed included:

* Conceptual Volume – lengthy discussion and reduction of 4 macros to 2 macros. Naming of second macro still to be determined.
* Decision to remove EXCLUSION and only work with Negation
* Settled understanding and confirmed fraction pattern encoding
* Treatment Machine Delivery Subsystem
* Device Descriptions (Device Identification Macro) and remove index from macro
* RT Accessory Holder Slot sequence removed
* Control Points
	+ In-depth education on control point approach
	+ In-depth education on meterset parameter
	+ Revision and decision on corresponding explanatory section.
	+ Revision and decision about examples
	+ Re-stated, that multi-frame approach is not suited here.
* Outline Macro cleaned and explanation of approach to only convey the minimum set of independent parameters (Outline Macro not finished yet)
* Consensus on specification of multiple requirements in attribute descriptions - (30xx,5023)
* Naming of various attributes and sequence of attributes changed and finalized.

WG-07 may need to review some of those changes to ensure, that radiotherapy implementers understand the semantics after changes.

The reading was closed in the middle of the External Beam Control Point General Attributes Macro.

The Supplement will return to WG-06 for continued reading for Public Comment.

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

This was a continued reading for Public Comment.

J. Luszcz, Co-Chair of WG-11 presented the draft Supplement in file < Sup156\_20131016\_0730\_StartSession1.docx> (posted in mtg folder) at the beginning of the first session, on Wednesday. He was supported in his presentation by A. Klingler, P. Morgan, E. Seeberger, and J. Whitby.

The file < Sup156\_20131016\_1530\_StartSession2.docx> (also posted) was shown at the beginning of the second session.

The file < Sup156\_20131017\_1030\_StartSession3.docx> (also posted) was shown at the beginning of the second session.

The Supplement will return to WG-06 for continued reading for Public Comment, at the January 2014 meeting of WG-06 in MITA HQ. (Jan. 6-10, 2014.)

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

This was a continuation of reading for Public Comment.

S. Balasubramanian presented < sup164\_Substance\_Admin\_Report\_v13.docx>

The discussion included the following items:

* WG-06 discussed open issues.
* The scope of the Supplement was expanded to include all administered substances, not only contrast agents, namely radiopharmaceuticals, etc. This will be accomplished by four new SOP classes
* Coordinate with Sup 159 and other impacted parties
* WG-06 discussed and closed most of the open issues
* Reviewed changes in TID xxxx5, TIDxxxx6
* Continue review TIDxxxx7, TIDxxxx8, TIDxxxx9
* Started review with TIDxxx10
* Was decided to have teleconference calls with WG-06 members

The discussions/comments were captured and posted as <sup164\_Substance\_Admin\_Report\_v14.docx> The Editor will work with the Secretary to organize t-cons with Sup 159 Editors.

The Supplement will **return** to WG-06 for continued reading, in January 2014

# **Supplement 165, Breast Projection X-Ray Image Storage SOP Class [WI-2012-06-B]** This was a reading for Letter Ballot.

# Sup 165 has had its Public Comment cycle completed and WG-15 has reviewed and discussed the comments.

# WG-15 Co-Chair, Janet Keyes presented <sup165\_pc+2.doc> and <Sup165\_PC\_WG-02\_comments\_WG-15response.xlsx> (both posted). She presented the comments in the spreadsheet and pointed to the revisions in the draft Supplement. The Fujifilm comments requesting specific attributes to be optional in For Presentation images were discussed in detail.

# D. Clunie asked whether there was a specific reason other than the Fujifilm request that the Distance Source to Detector, Distance Source to Patient and Distance Source to Isocenter attributes are conditionally required in For Processing images rather than being optional; the answer was no.

# D. Clunie asked whether future IHE tomosynthesis requirements were considered in the development of the Supplement; it was noted that this was not considered during the development of the Supplement.

# Next the open and closed issues were reviewed in the <sup165\_pc+2.doc>. J Keyes noted that there is a closed issue for each open issue.

# The Group requested clarification of the X and Y axes of the Isocenter Coordinate System, which J. Keyes obtained from WG 15 members between session 1 and session 2.

# The Group requested the Frame Content macro to be kept as “M” rather than “C – Required if conditions of any Type 1C attributes are met” in both the Breast Tomosynthesis Image IOD and Breast Projection X-Ray Image IOD, pending the outcome of the letter ballot on CP-1274 (to be discussed Thursday or Friday with CPack-73).

# The Group requested that the Patient Orientation Macro (PS 3.3, Table 10-15) with Patient Orientation Code Sequence (0054,0410) [PS 3.16, CID 19] and Patient Orientation Modifier Code Sequence (0054,0412) [PS 3.16, CID 20] be used instead of adding Patient Position (0018,5100) to the Enhanced Mammography Series module. The Patient Orientation Module (PS 3.3, C.7.6.20) was added to the IOD as “M”.

# The Group conducted a line-by-line review; suggested several revisions that were made during the reading, except for a requested update to Figure C.8.X.6-8 that would be completed off-line. None of the revisions required additional review by WG-15.

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

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

The Supplement was approved by Letter Ballot. This discussion was to review the comments received in the balloting process.

The comments by GE Healthcare, Pixel Med were discussed. The resolutions/responses of WG-06 to the comments are inserted in the comments posted in the meeting folder’s Sups subdirectory.

J. Whitby presented the document <sup166\_ft\_draft\_13.docx.>

The Supplement was approved for **Final Text**

# **Supplement 167, X-Ray 3D Angiographic IOD Informative Annex) [WI-2005-09-C]** This was a continuation of the 1st reading of the Supplement.

F. Sureda, Chair of WG-02 presented <Sup167\_X-Ray\_3D\_Angiographic\_Informative\_Annex\_Draft17.doc> (posted)

The technical discussion included:

* Renaming “device” to clarify distinction between the acquisition device and implanted or other devices.
* Reviewed open issues, referenced pending CP 1285, CP 1282, and New CP XXXAdd Table Info….
* Discussion of the Use cases together with encoding outlines for each.
* Copying the modules from Part 3.

The Supplement will **return** to WG-06.

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

This was a review for Final Text of the document <sup168\_Pre\_FTv2.doc>

The comments by GE Healthcare were discussed. The WG-09 responses were presented by D Van Syckle to WG-06 (also posted in the meeting folder as Sup168-Approve&comment-GE-Solomon - WG9 responses.docx.) In substance all GE comments have been accepted, some with modifications. Appropriate revisions were made and presented to WG-06.

The comments by Hologic were discussed. The WG-09 responses were presented by D Van Syckle to WG-06 (also posted in the meeting folder as Sup168-Approve&comment-Hologic-Keyes - WG9 Repsonses.docx.)

* The comment about - C.8.X.2: Should Geometric Maximum Distortion (0028,9445) be included also, in case Geometrical Properties (0028,0445) is NON\_UNIFORM was discussed at length. In recent discussions of WG-09 it was decided to actually recommend deleting all Geometric properties.
* C.8.X.3, Corneal Vertex Location: Is it clear that the values are relative to the stored pixel? data?WG6 decided the text was consistent with other DICOM Attributes that are similar, therefore recommended no change to the description
* The other comments were accepted and revisions made.

B. Revet reminded of the addition to Part 16

Supplement 168 was unanimously approved as **Final Text** with the amendments discussed by WG-06.

**Future Meetings**

* Jan. 6-10, 2014, Arlington, MITA HQ, VA, USA
* March 31-Apr. 4, 2014, Arlington, MITA HQ, VA, USA
* June 23-27, 2014, Edinburgh, UK
* Sept. 8-12, 2014, Arlington, MITA HQ, VA, USA
* Nov. 10-14, 2014, Arlington, MITA HQ, VA, USA

# **Next Meeting Agenda**

A detailed agenda for the next meeting (January 2014) has been discussed and decided.

# **Adjournment**

The meeting recessed at 17.30 daily and resumed at 08.30 the next day. The meeting was adjourned at 12.00, on October 18, 2013.

Reported by: Stephen Vastagh, Secretary

Reviewed by legal counsel: CRS 2013-11-18