Release Notes for DICOM PS 3 – 2007.

2006/12/28.

The following changes have been made relative to the published PS 3 2006 standard, by incorporating the changes specified in the supplements and correction items.

The Final Text of all applied Supplements and Correction Proposals is available at:

ftp://ftp.nema.org/medical/dicom/final/

Changes to Parts

Part 1
- Unchanged other than title, header, properties updated to 2007

Part 2
- Sup 111 done
- Sup 112 done
-
- CP 595 done
- CP 659 done (also added section G.4.3.3)

Part 3
- Fix typo Code Sequence Macro invocation table number in C.2.3 Patient Demographic Module (was Table 8.8-2, should be Table 8.8-1)
- Fix typo in macro reference name in Table C.8.19.2-1 to Table 10-3 from 'SOP Instance Reference Macro' to 'Image SOP Instance Reference Macro'
- Fix typo in note for Reconstruction Target Center (Patient) attribute in Table C.8-121.
- Fix typo in Frame Label section reference to C.7.6.16.2.2.5
- Fix inconsistencies in RT Ion attribute names to match those in Part 6
- Fix RT Ion macro inclusion table references
- Mark LUT Identification Module as retired, since no longer used after Sup 98
- Fix incorrect nesting level of Image SOP Instance Reference Macro in Softcopy VOI LUT Module
- Fix heading numbers for presentation state IODs that were not correctly updated when Sup 100 was applied
- Make spelling of “Operators’ Name” (0008,1070) consistent throughout
-
- Sup 111 done (fixed reference to multi-frame dimension module in IOD table)
- Sup 112 done
-
- CP 362 done

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- CP 526 done
- CP 576 done
- CP 584 done
- CP 599 done
- CP 600 done
- CP 613 done
- CP 614 done
- CP 615 done
- CP 616 done
- CP 618 done
- CP 621 done
- CP 624 done
- CP 626 done
- CP 627 done
- CP 628 done
- CP 632 done
- CP 634 done
- CP 642 done
- CP 643 done
- CP 644 done
- CP 645 done
- CP 649 done
- CP 651 done
- CP 652 done
- CP 655 done
- CP 660 done
- CP 662 done
- CP 664 done
- CP 665 done
- CP 667 done
- CP 670 done
- CP 675 done
- CP 676 done
- CP 677 done
- CP 681 done

Part 4

- Global cleanup of redundant “required if sequence item present” conditions
- Make spelling of “Operators’ Name” (0008,1070) consistent throughout
-
- Sup 111 done
- Sup 112 done
-
- CP 599 done
- CP 602 done
- CP 620 done

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- CP 647 done
- CP 653 done
- CP 677 done
- CP 681 done

Part 5
- Tidy up (remove) extra bullets in Annex A
- Update zlib URL
-
- CP 630 done
- CP 643 done

Part 6
- Add retired (0020,1003) Images in Series and (0020,1005) Images in Study that were included as retired in DICOM 1993 (but were not actually in ACR-NEMA 1 or 2 !)
- Fix spelling of (0012,0062) Patient Identity Removed
- Move (0018,9295) and (0018,9296) to correct ordered position
- Rename (retired) (5000,2610) Referenced Overlay Group to Curve Referenced Overlay Group
-
- Sup 111 done
- Sup 112 done
-
- CP 526 done
- CP 613 done
- CP 614 done
- CP 616 done
- CP 621 done
- CP 643 done
- CP 649 done
- CP 670 done

Part 7
- CP 595 done
- CP 640 done
- CP 654 done
- CP 657 done

Part 8
- CP 603 done
- CP 659 done

Part 10
- Unchanged other than title, header, properties updated to 2007

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Part 11
- Sup 113 done

Part 12
- Sup 113 done
-
- CP 631 done
- CP 640 done

Part 14
- Unchanged other than title, header, properties updated to 2007

Part 15
- Sup 111 done
- Sup 113 done
-
- CP 595 done
- CP 633 done

Part 16
- TID 3602 - Fix first seven rows repeating as header
- TID 10000 - Number figure A-11 (X-Ray Radiation Dose SR)
- TID 3807 - Fix row numbers in
- TID 5204 - Remove extraneous version line
- CID 3015 - merge cells in include row
- CID 3470 - fix capitalization in title MethodS
- CID 6041, 6043, 6137 - replace footnotes with notes
- Definitions of DCM 111007, 111010, 111030, 111040, 111041, 111045 - replace footnotes with text within table
-
- Sup 111 done
-
- CP 613 done
- CP 619 done
- CP 624 done
- CP 625 done
- CP 629 done
- CP 635 done
- CP 638 done (also added meaning of LOINC terms to Annex H)
- CP 639 done
- CP 643 done
- CP 646 done
- CP 648 done
- CP 660 done
- CP 661 done
- CP 664 done

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- CP 669 done
- CP 670 done
- CP 671 done (already)
- CP 672 done
- CP 673 done
- CP 674 done
- CP 680 done

Part 17
- Sup 111 done
- Sup 112 done
-
- CP 677 done

Part 18
- Unchanged other than title, header, properties updated to 2007

Supplements Incorporated

Sup 111 – Segmentation Storage SOP Class (done)
Sup 112 – Deformable Spatial Registration Storage SOP Class (done)
Sup 133 – Email Transport (done)

Correction Items Incorporated

CP 362 – X-Ray table position attribute names clarification (done)
CP 526 – Add original attribute sequence for replaced identifiers (done – should have been in 2006)
CP 576 – Motion Synchronization in RT (done)
CP 584 – Make evidence sequence mandatory in all SR (done)
CP 595 – Add SAML option to identity negotiation (done)
CP 599 – Add MPPS information to MWL for Study Date and Time (done)
CP 600 – Add spatial information to multiframe secondary capture (done)
CP 601 – Add Extended Negotiation for Query Matching Behavior (done – amended CP 601 FT to include missing SCU conformance section for Study Root)
CP 602 – Correct name of Number of Completed Sub-operations attribute (done)
CP 603 – Specify standard non-privileged port number (done)
CP 613 – Clarify Patient Data vs. Phantom Data (done)
CP 614 – Effective Depth at Beam Dose Specification Point (done)
CP 615 – Treatment Delivery Type (done)
CP 616 – Gantry Pitch Angle in RT (done)
CP 618 – RT Stopping Power Ratios (done)
CP 619 – Add SCOORD Item to TID 4021 (done)
CP 620 – DateTime Range Boundaries (done)
CP 621 – Correction tag numbers Enhanced XA/XRF Supplement (done)

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CP 624 – CAD Operating Point Definition (done)
CP 625 – Clarify Breast Ultrasound Terminology (done)
CP 626 – Clarify pixel spacing row and column order (done)
CP 627 – Burned in annotation forbidden in enhanced CT and MR (done)
CP 628 – Directory record type for stereometric relationships (done)
CP 629 – Correct cardiology units of measurement (done)
CP 630 – Type 1 meaning for multi-valued string attributes (done)
CP 631 – Define Universal Type Identifier for DICOM files (done)
CP 632 – Correct Palette Color LUT conditions in Color Presentation States (done)
CP 633 – Define DNS Service Type and parameters for DICOM (done)
CP 634 – Make Anatomic Region Sequence Type 1 for Enhanced Frame Anatomy (done)
CP 635 – Add SNOMED codes for measurement qualifiers (done)
CP 638 – Change to LOINC code for Structured Document Section Names (done)
CP 639 – Revise TID 5200 JJ1017 Protocol Context (done)
CP 640 – Clarify Role Negotiation Response (done)
CP 641 – Revise add support for 80 min CD-R (done)
CP 642 – Correction of conditions CT Reconstruction Macro (done)
CP 643 – Add veterinary identification tags (done)
CP 644 – Specify Number of Items for Reason for Requested Procedure Code Sequence (done)
CP 645 – Specify number of items for Device and Intervention Sequences (done)
CP 646 – Group of Frames for Display Key Object Selection (done)
CP 647 – Clarify presence of empty return keys in response identifier (done)
CP 648 – Additional Anatomic Region Codes for CT and MR (done – amended final text to specify date for version of revised context groups)
CP 649 – Mammography CR identification of devices for quality issues (done)
CP 651 – Clarify SPS Status Attribute (done)
CP 652 – Add Channel Description Code Sequence to VL (done)
CP 653 – Clarify SR Unambiguous Rendering Requirement (done)
CP 654 – Typo in Part 7 (done)
CP 655 – Create Content Identification Macro (done)
CP 657 – User Identity Negotiation Item-type (done)
CP 659 – IPv6 Support (done)
CP 660 – Addition of Ophthalmology Modality Codes (done)
CP 661 – Add Calculated Value for Vascular Calcifications (done)
CP 662 – Correction for Enhanced XA/XRF Image Module (done)
CP 664 – Clarification of Partial View Attributes, Views and View Modifiers (done)
CP 665 – Clarification of Spatial Locations Preserved (done)
CP 667 – Slice orientation for cross-sectional IODs (done)
CP 669 – Correct Content Item Conditions in TID 5202 (done)
CP 670 – Reference Rendering of SR (done)
CP 671 – CID 230 Yes/No values wrong (done)
CP 672 – Add Purpose of Reference Codes and Definitions (done)
CP 673 – Correct Typos and Inconsistencies in Part 16 (done)
CP 674 – Group Arterial Analysis Reference Points into Container (done)
CP 675 – Add the Rest of the IOD Definition of Real World Mapping (done)

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CP 676 – Reorganize and Update Part 3 Section 2 (done)
CP 677 – Delete References to Retired Services (done)
CP 680 – Add Discontinuation, Equipment & Media Codes for IHE Import Reconciliation Workflow (done – use CID 7008 rather than 7006, which is already assigned)
CP 681 – Convey Worklist Details into Created IODs and MPPSs (done)

Correction Items Not Incorporated

The following Correction Items had passed Letter Ballot by the time of this release, but were either waiting for code assignment or further revision prior to release of Final Text:

CP 622 – Additional isotopes and radiopharmaceuticals for NM (Waiting for Codes)
CP 623 – Additional isotopes and radiopharmaceuticals for PET (Waiting for Codes)
CP 637 – Additions to Anatomical Terms for Grouped Body Parts (Waiting for Codes)
CP 668 – Use Transverse Not Axial for Cross-Sectional Images (Final Text not yet available)

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