
2008/01/23

The following changes have been made relative to the published PS 3 2007 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:


Changes to Parts

Part 1
• Add PS 3.17 and PS 3.18 to section 6.1

Part 2
• Sup 107 – done
• Sup 110 – done
• Sup 114 – done
• Sup 116 – done
•
• CP 658 – done
• CP 708 – done
• CP 784 – done

Part 3
• A.1.4 Overview of the Composite IOD Module Content – delete redundant rows with no content left over from previous retirements
• Fixed incorrect Concatenation UID element number
• Fixed incorrect Patient ID tag number
• Fixed incorrect Compensator Type tag number
• Fixed section reference in Table C.8-26 for Referenced Image Sequence (0008,1140) from C.8.7.1.1.12 to C.8.7.1.1.13
• Fix inconsistent name of (0018,5020) … one place Preprocessing Function (US) and another Processing Function (NM) – use the latter, as it is in Part 6, and as was intended by Sup 7 changes
• Remove redundant qualifier “repeating” in “sequence of repeating items” wherever it occurs
• Changed prohibition on inclusion to “Softcopy” Presentation LUT Module in A.33.3.2 and A.33.4.2
• Fix table reference in C.10.9.1.5
• Fix incorrect tags in C.7.1.2.1 for Specimen Accession Number and Specimen Identifier
• In C.23.4.2 Hanging Protocol Selector Attribute Value Macro, the LT, ST and UT selector value attributes can only have a single value, by definition of the VR (anticipate CP 813)
• Fixed reference to image pixel module rather than macro in Spectroscopy and Raw data directory records in Table F-27 and F-28
• Make capitalization of “X-Ray” consistent
  • Make capitalization of “DateTime” in element names consistent
  • Sup 107 – done
  • Sup 110 – done (NB. Ophthalmic Frame Location Macro is not referenced in functional group macros table)
  • Sup 114 – done
  • Sup 116 – done
  • Sup 127 – done
• Fix missing General Series ‘M’ for Spatial Registration and Fiducials in Table A.1-2 to match A.39.1-1 and A.40.1-1 and Sup 73 (Note that Deformable Registration IOD does not include the General Series Module).
  • CP 617 – done
  • CP 666 – done
  • CP 668 – done
  • CP 682 – done
  • CP 683 – done
  • CP 684 – done
  • CP 685 – done
  • CP 688 – done
  • CP 690 – done
  • CP 692 – done
  • CP 693 – done
  • CP 695 – already done by CP 666
  • CP 697 – done
  • CP 699 – done
  • CP 700 – done (and also applied SOP Instance Reference Macro everywhere else appropriate)
  • CP 701 – done
  • CP 702 – done
  • CP 703 – done
  • CP 704 – done
  • CP 705 – done
  • CP 706 – done (except for Metabolite Map Code Sequence – conflicts with CP 690 – use the CP 690 choice; also, this puts Purpose of Reference Code Sequence in X-Ray Image Module back from Type 2 to Type 3, as it was supposed to be per CP 424)
  • CP 710 – done
  • CP 711 – done
  • CP 713 – done
  • CP 714 – done
• CP 715 – done
• CP 716 – done
• CP 717 – done
• CP 718 – done
• CP 719 – done
• CP 720 – done
• CP 721 – done (also included General Accessory Sequence in RT Ion Beams Session Record; did not add it to RT Image Module).
• CP 722 – done
• CP 723 – done
• CP 727 – done
• CP 730 – done
• CP 731 – done
• CP 734 – done
• CP 737 – done
• CP 740 – done
• CP 741 – done
• CP 742 – done
• CP 744 – done
• CP 746 – done
• CP 747 – done
• CP 748 – done
• CP 749 – done
• CP 751 – done
• CP 754 – done
• CP 755 – done
• CP 761 – done
• CP 762 – done
• CP 763 – done
• CP 764 – done
• CP 765 – done (update incorrect tags for focal spot and filter type)
• CP 766 – done
• CP 770 – done (and also removed various redundant instances of “required if a sequence item is present)
• CP 771 – done
• CP 772 – done (left the new macro in section C.17.2.1 rather than moving to section 10, otherwise the visibility of the other deltas to this table from other CPs would be lost)
• CP 773 – done
• CP 774 – done
• CP 775 – done
• CP 776 – done
• CP 777 – done
• CP 778 – done
• CP 779 – done
• CP 780 – done
• CP 783 – done
• CP 784 – done
• CP 785 – done
• CP 788 – done
• CP 790 – done
• CP 791 – done
• CP 792 – done
• CP 793 – done
• CP 794 – done
• CP 795 – done
• CP 796 – done

Part 4
• Make capitalization of “DateTime” in element names consistent
  •
  • Sup 107 – done
  • Sup 110 – done
  • Sup 114 – done
  • Sup 116 – done
  •
  • CP 692 – done
  • CP 684 – done
  • CP 696 – done
  • CP 705 – done
  • CP 715 – done (used “not allowed” for N-SET in F.11.2-1)
  • CP 730 – done
  • CP 748 – done
  • CP 784 – done

Part 5
• CP 707 – done
• CP 714 – done
• CP 726 – done
• CP 745 – done
• CP 758 – done

Part 6
• Add retired (0028,0020) … no such standard data element but allegedly (mis)used by some vendor, so mark as retired so as not to assign it in future
• Mark (0018,9096) as retired – was typo in Sup 49 that is in reality (0018,9069) – better to never re-use it
• Mark data elements as retired if no longer used because of retirement of IODs/Modules/Services (or if they were never used at all and included in supplements erroneously)
• Selector LT, ST and UT VM must be 1, by definition of the VR (anticipate CP 813)
• Rename (0004,0000) from generic “Group Length” to “File Meta Information Group Length”
• Include all trial and retired data elements so as to prevent inadvertent reuse, and make consistent the naming of such elements, distinct from the names of unretired elements.
• Make capitalization of “X-Ray” consistent
• Make capitalization of “DateTime” in element names consistent
• Make capitalization of “n” in VM column consistent (always lower case)

• Sup 107 – done
• Sup 110 – done
• Sup 114 – done
• Sup 116 – done

• CP 666 – done
• CP 684 – done
• CP 692 – done
• CP 698 – done
• CP 699 – done
• CP 715 – done
• CP 721 – done
• CP 727 – done
• CP 744 – done
• CP 747 – done
• CP 748 – done
• CP 762 – done
• CP 763 – done
• CP 764 – done
• CP 765 – done
• CP 784 – done
• CP 792 – done
• CP 793 – done
• CP 796 – done

Part 7
• Rename (0000,0000) from generic “Group Length” to “Command Group Length”

• CP 691 - done

Part 8
• Unchanged

Part 10
• Rename (0004,0000) from generic “Group Length” to “File Meta Information Group Length”
• Sup 114 – done
• CP 732 – done
• CP 745 – done

Part 11
• CP 686 – done

Part 12
• Unchanged

Part 14
• Unchanged

Part 15
• Sup 114 – done
• Sup 116 – done

Part 16
• Make capitalization of “DateTime” in element names and code meanings consistent
• Sup 107 – done
• Sup 110 – done
• Sup 116 – done
• Sup 127 – done
• CP 622 – done
• CP 623 – done
• CP 637 – done
• CP 679 – done
• CP 687 – done (and make sure that old rows in TID 10002 are removed)
• CP 689 – done
• CP 712 – done
• CP 713 – done
• CP 722 – done
• CP 724 – done
• CP 728 – done
• CP 730 – done
• CP 736 – done
• CP 738 – done
• CP 751 – done
• CP 752 – done
• CP 756 – done
• CP 759 – done
• CP 782 – done
• CP 786 – done
- CP 787 – done
- CP 798 – done

Part 17
- Make capitalization of “DateTime” in element names consistent
- Sup 107 – done
- Sup 110 – done
- Sup 127 – done
- CP 668 – done
- CP 679 – done
- CP 694 – already done
- CP 730 – done

Part 18
- Unchanged

**Supplements Incorporated**

Sup 107 – Substance Administration Information Services
Sup 110 – Ophthalmic Tomography Image Storage SOP Class
Sup 114 – DICOM Encapsulation of CDA
Sup 116 – X-Ray 3D Storage SOP Class
Sup 127 – CT Radiation Dose Reporting (Dose SR)

**Correction Items Incorporated**

CP 617 – Support for Patient Positioner Pitch and Roll Angles
CP 622 – Additional isotopes and radiopharmaceuticals for NM
CP 623 – Additional isotopes and radiopharmaceuticals for PET
CP 637 – Additions to Anatomical Terms and Projections
CP 658 – Conformance Statement Introduction Improvements
CP 666 – Gated Cardiac and Respiratory synchronization in enhanced IODs
CP 668 – Use transverse not axial for cross-sectional images
CP 679 – Corrections and Additions to CT/MR Cardiovascular SR
CP 682 – Align description annotation attribute enhanced XA/XRF
CP 683 – Dimension Label incorrect place in Table C.7.6.17-1
CP 684 – Archive flag for MPPS
CP 685 – Consistent defined term for elliptical Coverage of k-Space
CP 686 – Remove existing references to media interchange option
CP 687 – Dose Reporting for Mammography
CP 688 – Specify Sequence contents for DICOMDIR records
CP 689 – Additional terms for CID 4033
CP 690 – Define number of items in Metabolite Map Code Sequence
CP 691 – Clarify Additional Command Elements
CP 692 – Add Pixel Padding Value Range Limit attribute
CP 693 – Border Density Correction
CP 694 – Wrong references in PS 3.17 Annex J
CP 695 – Respiratory Interval Time Type is wrong
CP 696 – Undefined Query keys on Study Level C-FIND / G-GET
CP 697 – Frame Increment Pointer for single-frame images
CP 698 – Image Type VM should be two or more
CP 699 – PS2 compression data elements reused for calibration
CP 700 – Rename SOP Instance Reference Macros that have different content
CP 701 – Person Identification macro conditions
CP 702 – Author Observer Sequence multiplicity
CP 703 – Include Series Description, Date, Time in SR IODs
CP 704 – Use Request Attributes macro and add Performed Procedure Step Summary macro
CP 705 – ICC profiles for Basic Color Print
CP 706 – Specify number of sequence items when missing
CP 707 – Retire group lengths
CP 708 – Remove Patient/Study Only from conformance example
CP 710 – Make Specimen Identification conditional for microscopy
CP 711 – Editorial change for figure in C.7.2.1
CP 712 – Update reference for CID 3717
CP 713 – Add Bone Densitometry Modality codes
CP 714 – Clarify DT value representation
CP 715 – Add Service Episode ID
CP 716 – Stereometric Relationship Series Information Missing
CP 717 – RT Clarification of Compensator Rows and Columns
CP 718 – Correction of description of tag (300A.00F7) in RT Ion Beam module
CP 719 – Leaf Jaw Positions
CP 720 – RT Typo in Tag for Compensator Type
CP 721 – Addition of General Accessory Sequence to RT Plan
CP 722 – Add cross-reference between Body Part Examined and Anatomic Region
CP 723 – Internationalize special needs description
CP 724 – Add Terms to Calculated Value & Methods CIDs
CP 726 – Allow leading spaces in PN VR components
CP 727 – Correct duplicate responsible organization definition
CP 728 – Add cardiology report titles to CID 7000
CP 730 – Clarify SNOMED coding scheme designators
CP 731 – Clarify use of MPPS Referenced Image Sequence
CP 732 – Clarify allowed use of file links
CP 733 – Modify Hemodynamic Measurement Group template
CP 734 – Additional Treatment Positions for Ion Therapy
CP 736 – TID 4023, CID 6048 updates
CP 737 – Revise EPS sampling parameters
CP 738 – Add Context Group for type of multiframe subset
CP 740 – Evidence sequence references in SR and KOS includes presentation states
CP 741 – Correct Table F.4-1 references
CP 742 – Clarification of Slice Location attributes
CP 744 – Add diffusion b matrix
CP 745 – Transfer Syntax UID not allowed outside file meta information
CP 746 – Conditions under which Pixel Spacing may be zero
CP 747 – Add clinical trial series identifier and description
CP 748 – Rename Image Position to Image Box Position
CP 749 – Modality for reports, requests and other documents
CP 751 – Add coding scheme designator for RadLex
CP 752 – Update reference to HL7 OID registry for coding schemes
CP 753 – Correct Concatenation UID element number
CP 754 – Add Display Shutter Module to CR IOD
CP 755 – Correct Patient ID tag
CP 756 – Add general area and volume calculation methods to SR templates
CP 758 – Clarify encoding rules for Private Sequences
CP 759 – Update Cardiovascular Patient History
CP 761 – Clarify Pixel Spacing attribute condition within Basic Pixel Spacing Calibration Macro
CP 762 – Add Waveform Presentation attributes
CP 763 – CT Calibration Factors for the Mass Score of the Calcium Scoring evaluation
CP 764 – CT Phantom for CTDI Dose Measurement
CP 765 – CT system with multiple X-Ray sources (update incorrect tags for focal spot and filter type)
CP 766 – CT Isocenter
CP 770 – Remove redundant sequence attribute condition example
CP 771 – Clarify rendering of window values present in images
CP 772 – Archive flag for GP-PPS
CP 773 – C-arm Positioner Tabletop Relationship Enumerated Values
CP 774 – Correct Presentation State frame reference condition
CP 775 – Clarify Pixel Padding Value and Range Limit Conditions
CP 776 – Remove redundant conditions within sequences
CP 777 – Specify which attributes with unsatisfied conditions may be present otherwise
CP 778 – Correct conditions on Pixel Aspect Ratio
CP 779 – Correct conditions on Dimension Organization UID
CP 780 – Correct conditions in Palette Color Lookup Table Module
CP 782 – Add Device as Observation Subject
CP 783 – Typos and Clarifications in Digital Signature
CP 784 – Change Contrast Allergies to simply Allergies
CP 785 – Make Modality and VOI LUTs Conditional in BSPS
CP 786 – Typo in TID 5014
CP 787 – Add Procedure Phase to Arterial Analysis
CP 788 – Wrong reference in PS3.3 section C9.3.1.1
CP 790 – Unscheduled Reason for Requested Procedure for Mammography
CP 791 – RT Block/Compensator Transmission and Thickness
CP 792 – RT Brachy Source Direction Vector
CP 793 – RT Compensator Description
CP 794 – Clarification of Ion Control Point Sequence
CP 795 – RT Leaf Position Note
CP 796 – RT ROI Materials Description
CP 798 – Typo in CID 3472