

DICOM Correction Proposal Form

Correction Number CP-408	
Log Summary: Add 12bit Lossy JPEG to STD-XA1K-DVD	
Type of Modification	Name of Standard
Modification	PS 3.11 2003
Rationale for Correction: In defining the JPEG lossy compression syntax for the STD-XA1K-DVD profile, the fact that the profile support up to 12-bit depth images was overlooked, and the proper JPEG transfer syntax for 12-bit lossy images was not included. Adding it aligns the profile with the STD-GEN-DVD-JPEG profile transfer syntaxes.	
Sections of documents affected PS 3.11	
Correction Wording:	

**Table B.3-1
STD-XA1K SOP Classes and Transfer Syntaxes**

Information Object Definition	Service Object Pair Class UID	Transfer Syntax and UID	FSC Requirement	FSR Requirement	FSU Requirement (See note 1)
Basic Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Mandatory	Mandatory	Mandatory
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Process 14 (selection value 1) 1.2.840.10008.1.2.4.70	Mandatory	Mandatory	Optional
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossy, Baseline Sequential with Huffman Coding (Process 1) 1.2.840.10008.1.2.4.50	Optional for DVD; Disallowed for CD	Mandatory for DVD; Disallowed for CD	Undefined for DVD; Disallowed for CD
<u>X-Ray Angiographic Image</u>	<u>1.2.840.10008.5.1.4.1.1.12.1</u>	<u>JPEG Extended (Process 2 & 4): Default Transfer Syntax for Lossy JPEG 12 Bit Image Compression (Process 4 only) 1.2.840.10008.1.2.4.51</u>	<u>Optional for DVD; Disallowed for CD</u>	<u>Mandatory for DVD; Disallowed for CD</u>	<u>Undefined for DVD; Disallowed for CD</u>
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian Uncompressed 1.2.840.10008.1.2.1	Optional	Mandatory	Optional