

Correction Number		CP-144
Log Summary: Audio Sample Data Value Representation clarification		
Type of Modification	Name of Standard	
Clarification	PS 3.5-1998	
Rationale for Correction		
<p>Audio Sample Data (50xx,200C) is specified in PS 3.6 to have a VR of OW/OB.</p> <p>Audio Sample Data (50xx,200C) is specified in PS 3.3 C.10.3 to contain 8 or 16 bit two's complement values as specified in Audio Sample Format (50xx,2002).</p> <p>It is not specified which VR to use under what circumstances. There are no rules in PS 3.5 as there are for curves, overlays and pixel data.</p> <p>The proposed changes here specify that the VR shall depend on Audio Sample Format (50xx,2002), and be OB if 8 bit values and OW if 16 bit.</p> <p>Since the only Implicit VR Transfer Syntax available is Little Endian this has the same effect whether one considers a 2 byte integer is encoded as OB or whether it is written as a little endian OW, ie. the least significant byte is encoded first in the stream.</p>		
Sections of documents affected		
PS 3.5 A.1,A.2,A.3,A.4		
Correction Wording:		

Amend PS 3.5-1998 Section A to add new rules for (50xx,200C) VR.

A.1 DICOM IMPLICIT VR LITTLE ENDIAN TRANSFER SYNTAX

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Data Element (50xx,200C) Audio Sample Data has the Value Representation OB when AudioSample Format (50xx,2002) specifies 8-bit values, and OW encoded in Little Endian when 16 bit values are specified. See the specification of the Audio Module in PS 3.3.

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A.2 DICOM LITTLE ENDIAN TRANSFER SYNTAX (EXPLICIT VR)

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Data Element (50xx,200C) Audio Sample Data has the Value Representation OB when AudioSample Format (50xx,2002) specifies 8-bit values, and OW encoded in Little Endian when 16 bit values are specified. See the specification of the Audio Module in PS 3.3.

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A.3 DICOM BIG ENDIAN TRANSFER SYNTAX (EXPLICIT VR)

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Data Element (50xx,200C) Audio Sample Data has the Value Representation OB when AudioSample Format (50xx,2002) specifies 8-bit values, and OW encoded in Big Endian when 16 bit values are specified. See the specification of the Audio Module in PS 3.3.

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A.4 TRANSFER SYNTAXES FOR ENCAPSULATION OF ENCODED PIXEL DATA

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Data Element (50xx,200C) Audio Sample Data has the Value Representation OB when AudioSample Format (50xx,2002) specifies 8-bit values, and OW encoded in Little Endian when 16 bit values are specified. See the specification of the Audio Module in PS 3.3.