

## DICOM Change Proposal Form - Final Text

Tracking Information - Administrator Use Only	
Change Proposal Number	CP-31
STATUS	voting-1, approved
Date of Last Update	10/31/94
Person Assigned	Don Van Syckle

Log Summary: Show Explicit VR for examples of compressed pixel data	
Submitter Name Don Van Syckle	Submission date 10/31/94
Type of Modification Inconsistency	
Name of Document PS 3.5	Version Number
<p>Rationale for change</p> <p>All of the transfer syntaxes which use compression require explicit VR encoding (actually all Transfer syntaxes except the default do this). The normative text is correct as it requires explicit VR, but people get confused when they see the examples which do not include it.</p> <p>The title for table A.4-2 is needs correcting to read "with" offset table.</p> <p>The lable of Table A.4-2 fragments (frames) are incorrect.</p> <p>Note: the last two errors were introduced during the printing process.</p>	
<p>Sections of document affected</p> <p>Table A.4-1, Table A.4-2</p>	
<p>Suggested Wording of change</p> <p>add the explicit VR of 'OB' in the examples</p> <p>Correct title of Table A.4-2</p> <p>Correct the numbering of frames for Table A.4-2</p>	

**Figure A.4-1: Example for elements of an encoded single-frame image defined as a sequence of three fragments without basic offset table item value.**

Pixel Data Element Tag	Value Representation		Data Element Length	Data Element				
	OB	0000H Reserved		Basic Offset Table with NO Item Value		First Fragment (Single-Frame) of Pixel Data		
				Item Tag	Item Length	Item Tag	Item Length	Item Value
(7FE0, 0010) with VR of OB	OB	0000H Reserved	FFFF FFFFH undefined length	(FFFE, E000)	0000 0000H	(FFFE, E000)	0000 04C6H	compressed fragment
4 bytes	2 bytes	2 bytes	4 bytes	4 bytes	4 bytes	4 bytes	4 bytes	04C6H bytes

Data Element continued							
Second Fragment(Single-Frame) of Pixel Data			Third Fragment(Single-Frame) of Pixel Data			Sequence Delimiter Item	
Item Tag	Item Length	Item Value	Item Tag	Item Length	Item Value	Sequence Delim. Tag	Item Length
(FFFE, E000)	0000 024AH	compressed fragment	(FFFE, E000)	0000 0628H	compressed fragment	(FFFE, E0DD)	0000 0000H
4 bytes	4 bytes	024AH bytes	4 bytes	4 bytes	0628H bytes	4 bytes	4 bytes

**Figure A.4-2: Example of elements for an encoded two-frame image defined as a sequence of three fragments with basic offset table item values.**

Pixel Data Element Tag	Value Representation		Data Element Length	Data Element					
	OB	0000H Reserved		Basic Offset Table with Item Value			First Fragment (Frame 1) of Pixel Data		
				Item Tag	Item Length	Item Value	Item Tag	Item Length	Item Value
(7FE0, 0010) with VR of OB	OB	0000H Reserved	FFFF FFFFH	(FFFE, E000)	0000 0008H	0000 0000H 0000 0000H 0000 0646H	(FFFE, E000)	0000 02C8H	compressed fragment
4 bytes	2 bytes	2 bytes	4 bytes	4 bytes	8 bytes	0008H bytes	4 bytes	4 bytes	02C8H bytes

Data Element continued							
Second Fragment (Frame 1) of Pixel Data			Third Fragment (Frame 2) of Pixel Data			Sequence Delimiter Item	
Item Tag	Item Length	Item Value	Item Tag	Item Length	Item Value	Sequence Delim. Tag	Item Length
(FFFE, E000)	0000 036EH	compressed fragment	(FFFE, E000)	0000 0BC8H	compressed fragment	(FFFE, E0DD)	0000 0000H
4 bytes	4 bytes	036EH bytes	4 bytes	4 bytes	0BC8H bytes	4 bytes	4 bytes