

DICOM Correction Item

Correction Number	CP-532
Log Summary: Forbid odd groups less than 0x0008	
Type of Modification	Name of Standard
Correction	PS 3.5, 3.10 2004
Rationale for Correction	
<p>Currently PS 3.10 forbids the use of odd groups less than 0x0008 explicitly, but there is no similar general prohibition in PS 3.5 or network-specific prohibition in PS 3.7 or PS 3.8.</p> <p>Such odd groups should be explicitly forbidden under all circumstances as there is no implied shadow semantics that such odd groups might be "private command extensions" or "private meta information extensions" or similar.</p>	
Sections of documents affected	
PS 3.5 7.8.1	
PS 3.10 7.1	
Correction Wording:	

Add restriction to PS 3.5:

7.8.1 PRIVATE DATA ELEMENT TAGS

It is possible that multiple implementors may define Private Elements with the same (odd) group number. To avoid conflicts, Private Elements shall be assigned Private Data Element Tags according to the following rules.

- a) Private Creator Data Elements numbered (gggg,0010-00FF) (gggg is odd) shall be used to reserve a block of Elements with Group Number gggg for use by an individual implementor. The implementor shall insert an identification code in the first unused (unassigned) Element in this series to reserve a block of Private Elements. The VR of the private identification code shall be LO (Long String) and the VM shall be equal to 1.
- b) Private Creator Data Element (gggg,0010), is a Type 1 Data Element that identifies the implementor reserving element (gggg,1000-10FF), Private Creator Data Element (gggg,0011) identifies the implementor reserving elements (gggg,1100-11FF), and so on, until Private Creator Data Element (gggg,00FF) identifies the implementor reserving elements (gggg,FF00-FFFF).
- c) Encoders of Private Data Elements shall be able to dynamically assign private data to any available (unreserved) block(s) within the Private group, and specify this assignment through the blocks corresponding Private Creator Data Element(s). Decoders of Private Data shall be able to accept reserved blocks with a given Private Creator identification code at any position within the Private group specified by the blocks corresponding Private Creator Data Element.

Note: 1. The versions of this standard prior to V3.0 described shadow groups. These were groups with a group number one greater than the standard groups. Elimination of conflicts in Private Data Element Tags have made this distinction obsolete and this terminology has been retired.
2. The versions of this standard prior to V3.0 specified private group element numbers (gggg,10FF-7FFF) reserved for manufacturers and private group element numbers (gggg, 8100-FFFF) reserved for users. Elimination of conflicts in Private Data Element Tags has made this distinction obsolete and this specification has been retired.

d) Elements with Tags (0001,xxxx), (0003,xxxx), (0005,xxxx), and (0007,xxxx) shall not be used.

Change current PS 3.10 prohibition into a note referencing PS 3.5:

7.1 DICOM FILE META INFORMATION

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Values of all Tags (0002,xxxx) are reserved for use by this Standard and later versions of DICOM. ~~Elements with Tags (0001,xxxx), (0003,xxxx), (0005,xxxx), and (0007,xxxx) shall not be used for Media Interchange.~~

Note: PS 3.5 specifies that Elements with Tags (0001,xxxx), (0003,xxxx), (0005,xxxx), and (0007,xxxx) shall not be used.