

DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2016/01/18
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Correction Number	CP-1529
Log Summary: Private Creator once per group	
Name of Standard PS3.5	
<p>Rationale for Correction:</p> <p>Private data element blocks are meant to prevent conflicts between private data elements of multiple implementers. The combination of the Private Creator identifier, the group number, and the element number within the block (00-FF) create a unique identifier for a data element definition. The block number (10-FF) is explicitly not part of the unique identifier, as section 7.8.1.c. requires that private blocks may be dynamically reassigned.</p> <p>Reserving multiple blocks within the same group with the same individual implementer ID goes against this purpose. Multiple blocks within the same group with the same Private Creator identifier implies that the same private data elements may appear more than once in an instance, which is forbidden by section 7.1. Thus the Standard implicitly forbids this behavior; this CP makes that restriction explicit.</p> <p>Example of (illegal) multiple usage of same private group number by same individual implementer:</p> <pre>(0901,0010) LO "Vendor Id" (0901,0011) LO "Vendor Id" (0901,1010) US 1 (0901,1011) ST "some text" (0901,1110) US 2 (0901,1111) ST "other text"</pre>	
Correction Wording:	

<i>Add text to PS 3.5 Section 7.8.1, item a</i>

7.8.1 Private Data Element Tags

It is possible that multiple implementers 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 implementer. The implementer 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. **A Private Creator identifier may be used only once within a Group; reserving multiple blocks of Elements in the same Group with the same identifier is not allowed.**

Note: If multiple repetitions of a private element are needed by an implementer, a private Sequence attribute (see Section 7.5) may be used to contain these multiple items.