

DICOM Correction Item

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| Correction Number | CP-528 |
| Log Summary: Encoding of empty Functional Group Items | |
| Type of Modification | Name of Standard |
| Clarification | PS 3.3 - 2004 |
| Rationale for Correction | |
| <p>Enhanced MR, MR-Spectroscopy and CT contain Functional Groups that describe the plane orientation and positioning. These Functional Groups are mandatory (M). In a number of cases the result may be an empty sequence because the sequence must be provided, but there are no items that contains values.</p> <p>For example: The Plane Position and Plane Orientation Macro contain both a Type 1 sequence with a single attribute. The attribute itself is Type 1C with a certain condition. If the condition is not met, the attribute is not available, which results in a empty sequence.</p> <p>To prevent confusion by implementer a note is added that explains this situation in addition to an already existing note for the Shared and Per-Frame Functional Group Sequence.</p> | |
| Sections of documents affected | |
| PS 3.3 Section C.7.6.16.1.1 | |
| Correction Wording: | |

C.7.6.16.1.1 Functional Group

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- Notes:
1. In the case of a SOP Instance containing a single frame, some Functional Group Macros may be contained in the Shared Functional Groups Sequence (5200,9229) and others in the one Item of the Per-frame Functional Groups Sequence (5200,9230).
 2. Even if there are no Functional Group Macros in the Per-frame Functional Groups Sequence (5200,9230) an empty Item is encoded for every frame.
 - 3. It may happen that a mandatory Function Group Macro Item containing no values is required in either the Shared Functional Groups Sequence (5200,9229) or the Per-frame Functional Groups Sequence (5200,9230). In that case the Function Group Macro is encoded as an empty Sequence, i.e. a sequence of zero length or a sequence with undefined length with only an end of sequence delimiter.**