

DICOM Change Proposal

STATUS	Letter Ballot
Date of Last Update	2025/06/17
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Change Number	CP-2471
Log Summary:	Correct Shared FG SQ description and inconsistencies
Name of Standard	PS3.3
Rationale for Change:	<p>Some of the latest Enhanced Multiframe IODs (like cf. the Segmentation IOD and the Multi-frame True Color Secondary Capture Image IOD) can have only Per-Frame Functional Group Macros and no Shared Functional Group Macro. Resulting in an empty item in the Shared Functional Groups Sequence (5200,9229). Current text does not allow this and as such requires update <i>>Include one <u>zero</u> or more Functional Group Macros...</i></p> <p>Zero macros in the item is allowed according definition of the Type 1 requirements defined in PS3.5 section 7.4.1 for a "Type 1 Sequence" (Note 2).</p>
Change Wording:	

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Modify PS 3.3 Section C.7.6.16 Multi-frame Functional Groups Module to indicate that no (zero) Macro can be included in the Shared Functional Groups Sequence

C.7.6.16 Multi-frame Functional Groups Module

Table C.7.6.16-1 specifies the Attributes of the Multi-frame Functional Groups Module. This Module is included in SOP Instances even if there is only one frame in the Instance.

Table C.7.6.16-1. Multi-frame Functional Groups Module Attributes

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Attribute Name	Tag	Type	Attribute Description
Shared Functional Groups Sequence	(5200,9229)	1	<p>Sequence that contains the Functional Group Macros that are shared for all frames in this SOP Instance and Concatenation.</p> <p>Note</p> <p>The contents of this Sequence are the same in all SOP Instances that comprise a Concatenation.</p> <p>Only a single Item shall be included in this Sequence.</p> <p>See Section C.7.6.16.1.1 for further explanation.</p>

Attribute Name	Tag	Type	Attribute Description
<p>>Include one zero or more Functional Group Macros that are shared by all frames. The selected Functional Group Macros shall not be present in the Per-Frame Functional Groups Sequence (5200,9230).</p>			<p>For each IOD that includes this Module, a table is defined in which the permitted Functional Group Macros and their usage is specified.</p> <p>The Item may be empty if the requirements for inclusion of the Functional Groups are not satisfied.</p>
Per-Frame Functional Groups Sequence	(5200,9230)	1C	<p>Sequence that contains the Functional Group Sequence Attributes corresponding to each frame of the Multi-frame Image. The first Item corresponds with the first frame, and so on.</p> <p>One or more Items shall be included in this Sequence. The number of Items shall be the same as the number of frames in the Multi-frame image. See Section C.7.6.16.1.2 for further explanation.</p> <p>Required if for any frame, there are Per-Frame Functional Groups that are not empty.</p>
<p>>Include one or more Functional Group Macros.</p>			<p>For each IOD that includes this Module, a table is defined in which the permitted Functional Group Macros and their usage is specified.</p> <p>An Item may be empty if the requirements for inclusion of the Functional Groups for the corresponding frame are not satisfied.</p>
Instance Number	(0020,0013)	1	<p>A number that identifies this Instance. The value shall be the same for all SOP Instances of a Concatenation, and different for each separate Concatenation and for each SOP Instance not within a Concatenation in a Series.</p>
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