

## DICOM Correction Item

|  |                  |        |  |
|--|------------------|--------|--|
| Correction Number  |                  | CP-985 |  |
| Log Summary: Reference to Number of Frames Fix   |                  |        |  |
| Type of Modification   | Name of Standard |        |  |
| Correction   | PS 3.3 - 2009    |        |  |
| Rationale for Correction   |                  |        |  |
| In the Multi-frame Functional Groups Module are reference is made to the section describing the usage of the Number of Frames attributes (Section C.7.6.6.1.1). This section is a combined section of the Number of Frames and Frame Increment Pointer attributes. Proposed is to split the descriptions into two separate sections and modify all references to this description. |                  |        |  |
| Sections of documents affected   |                  |        |  |
| PS xxx   |                  |        |  |
| Correction Wording:  |                  |        |  |

### C.7.6.6 Multi-Frame Module

Table C.7-14 specifies the Attributes of a Multi-frame pixel data Image.

**Table C.7-14  
MULTI-FRAME MODULE ATTRIBUTES**

| Attribute Name          | Tag         | Type | Attribute Description  |
|-------------------------|-------------|------|--|
| Number of Frames        | (0028,0008) | 1    | Number of frames in a Multi-frame Image. See C.7.6.6.1.1 for further explanation.  |
| Frame Increment Pointer | (0028,0009) | 1    | Contains the Data Element Tag of the attribute that is used as the frame increment in Multi-frame pixel data. See C.7.6.6.1.1 for further explanation. |

#### C.7.6.6.1 Multi-Frame Attribute Descriptions

##### C.7.6.6.1.1 Number Of Frames

A Multi-frame Image is defined as a Image whose pixel data consists of a sequential set of individual Image Pixel frames. A Multi-frame Image is transmitted as a single contiguous stream of pixels. Frame headers do not exist within the data stream.

Each individual frame shall be defined (and thus can be identified) by the Attributes in the Image Pixel Module (see C.7.6.3). All Image IE Attributes shall be related to the first frame in the Multi-frame image.

The total number of frames contained within a Multi-frame Image is conveyed in the Number of Frames (0028,0008).

##### C.7.6.6.1.2 Frame Increment Pointer

The frames within a Multi-frame Image shall be conveyed as a logical sequence. The information that determines the sequential order of the frames shall be identified by the Data Element Tag or

tags conveyed by the Frame Increment Pointer (0028,0009). Each specific Image IOD that supports the Multi-frame Module specializes the Frame Increment Pointer (0028,0009) to identify the Attributes that may be used as sequences.

Even if only a single frame is present, Frame Increment Pointer (0028,0009) is still required to be present and have at least one value, each of which shall point to an attribute that is also present in the dataset and has a value.

Note: For example, in single-frame instance of an IOD that is required to or may contain the Cine Module, it may be appropriate for Frame Time (0018,1063) to be present with a value of 0, and be the only target of Frame Increment Pointer (0028,0009).

**C.8.6.3 SC Multi-frame Image Module**

Table C.8-25b contains IOD Attributes that describe SC Multi-frame images.

**Table C.8-25b**  
**SC MULTI-FRAME IMAGE MODULE ATTRIBUTES**

| Attribute Name          | Tag         | Type | Attribute Description   |
|-------------------------|-------------|------|---|
| ...                     | (0028,0301) | 1    | Indicates whether or not image contains sufficient burned in annotation to identify the patient and date the image was acquired.<br><br>Enumerated Values:<br>YES<br>NO   |
| Frame Increment Pointer | (0028,0009) | 1C   | Contains the Data Element Tag of the attribute which is used as the frame increment in Multi-frame pixel data. See C.7.6.6.1.42 for further explanation.<br><br>Shall be present if Number of Frames is greater than 1, overriding (specializing) the Type 1 requirement on this attribute in the Multi-frame Module. |
| ...                     |             |      |   |