

## DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2016/11/06
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Correction Number	CP- 1598
Log Summary:	Clarify Fractional Segmentation
Name of Standard	PS3.3 2016d
Rationale for Correction:	Fractional segmentation is specified using the term “percentage”, although technically it is not, as the denominator is not 100, but rather a specified maximum value.
Correction Wording:	
<b><i>Amend PS3.3 Section C.8.20.2.3</i></b>	

### C.8.20.2 Segmentation Image Module

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**Table C.8.20-2. Segmentation Image Module Attributes**

Attribute Name	Tag	Type	Attribute Description
...	...	...	...
Maximum Fractional Value	(0062,000E)	1C	Specifies the value that represents <del>400%</del> <b>a probability of 1 or complete occupancy</b> . There shall be no values in Pixel Data (7FE0,0010) greater than this value. Required if Segmentation Type (0062,0001) is FRACTIONAL.
...	...	...	...

#### C.8.20.2.3 Segmentation Type and Segmentation Fractional Type

A Segmentation Type (0062,0001) of BINARY indicates the segmented property is present with a **pixel** value of 1 and absent with a value of 0.

For a Segmentation Type (0062,0001) of FRACTIONAL the segmented property is defined as a value from zero to the Maximum Fractional Value (0062,000E). A FRACTIONAL segmentation shall be further specified via Segmentation Fractional Type (0062,0010).

Enumerated Values of Segmentation Fractional Type (0062,0010):

- PROBABILITY** Defines the probability, as a ~~percentage-ratio of the pixel value to the Maximum Fractional Value~~, that the segmented property occupies the spatial area defined by the ~~pixel~~/voxel.
- OCCUPANCY** Defines the ~~percentage-proportion~~ of the ~~voxel-area-pixel volume~~ occupied by the segmented property ~~as the ratio of the pixel value to the Maximum Fractional Value~~.