

## DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2016/04/01
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Correction Number	CP- 1598
Log Summary: Clarify Fractional Segmentation	
Name of Standard	PS3.3
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:	

***Amend PS3.3 Section C.8.20.2.3***

### 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).

**If the Maximum Fractional Value (0062,000E) is 100, the pixel values are percentages.**

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 (0062,000E)**, that the segmented property occupies the spatial area defined by the **pixel/voxel**.

**OCCUPANCY** Defines the ~~percentage~~ **proportion** of the **pixel/voxel** area occupied by the segmented property **as the ratio of the pixel value to the Maximum Fractional Value (0062,000E)**.