

DICOM Correction Item

Correction Number		CP-822
Log Summary: Clarify the usage of the Real-World Value description attributes		
Type of Modification	Name of Standard	
Correction	PS 3.3 – 2008	
Rationale for Correction		
<p>The description of the LUT Explanation and LUT Label are not clear that they apply to any transformation, whether it is a LUT or linear transformation (Rescale/Slope). The new description clarify that it is applicable for the item it belongs, independent how the transformation is described.</p>		
Sections of documents affected		
PS 3.3 C.7.6.16.2.11		
Correction Wording:		

C.7.6.16.2.11 Real World Value Mapping Macro

Table C.7.6.16-12 specifies the attributes of the Real World Value Mapping Functional Group macro.

**Table C.7.6.16-12
REAL WORLD VALUE MAPPING MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Real World Value Mapping Sequence	(0040,9096)	1	The mapping of stored values to associated real world values. One or more Items may be included in this sequence.
>Real World Value First Value Mapped	(0040,9216)	1	Specifies the first stored value mapped for the Real Word Value Intercept (0040,9224) and Real World Value Slope (0040,9225) or Real World Value LUT (0040,9212) of this Item. See C.7.6.16.2.11.1 for further explanation.
>Real World Value Last Value Mapped	(0040,9211)	1	Specifies the last stored value mapped for the Real Word Value Intercept (0040,9224) and Real World Value Slope (0040,9225) or Real World Value LUT (0040,9212) of this Item. See C.7.6.16.2.11.1 for further explanation.
>Real World Value Intercept	(0040,9224)	1C	The Intercept value in relationship between stored values (SV) and the real world values. See section C.7.6.16.2.11.2 for further explanation. Required if Real World Value LUT Data (0040,9212) is not present.
>Real World Value Slope	(0040,9225)	1C	The Slope value in relationship between stored values (SV) and the real world values. See section C.7.6.16.2.11.2 for further explanation. Required if Real World Value LUT Data (0040,9212) is not present.
>Real World Value LUT Data	(0040,9212)	1C	LUT Data in this Sequence. Required if Real World Value Intercept (0040,9224) is not present.
>LUT Explanation	(0028,3003)	1	Free form text explanation of the meaning of the LUT transformation in this Item .
>LUT Label	(0040,9210)	1	Label that is used to identify these transformation of this Item .

>Measurement Units Code Sequence	(0040,08EA)	1	Units of measurement. Only a single value shall be present. See C.7.6.16.2.11.1 for further explanation.
>>Include Code Sequence Macro Table 8.8-1			Defined Context ID is 82