

DICOM Correction Item

Correction Number		CP-725
Log Summary: Pixel scaling for NM IOD		
Type of Modification	Name of Standard	
Addition	PS 3.3 – 2008 + Supplement 117	
Rationale for Correction		
<p>The NM IOD does not include any means for scaling the pixel values. This causes problems when the number of counts in a pixel does not fit into 16 bits.</p> <p>It is also anticipated that in the future there may be a need to be able to specify pixel units other than counts.</p> <p>It is proposed to add the Real World Value Sequence as Type 3 attribute.</p>		
Editor note: DCID 8x is defined in Supplement 117		
Sections of documents affected		
PS 3.3 Section C.7.6.16.2.11, C.8.4.9, C.25.2		
Correction Wording:		

Amend PS 3.3, Section C7.6.16.2.11, Table C.7.6.76-12 by changing the description of the Macro invocation.

**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.
...			
>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			<u>Defined Context ID is 82, or as specified in the macro invocation</u>

Change PS 3.3, Section C.8.4.9, Table C.8.9 by changing the description of the Macro invocation equal.

**Table C.8-9
NM Image Module Attributes**

Attribute Name	Tag	Type	Attribute Description
...			
Referenced Image Real World Value Mapping Sequence	(0040,9094)	3	A sequence of one or more real world value mapping items. Each item defines a single mapping and a list of images to which the mapping applies.
<u>>Include Real World Value Mapping Macro Table C.7.6.16-12</u>			<u>Defined Context ID for Measurement Units Code Sequence is 84 "PET Units for Real World Value Mapping".</u>

Change PS 3.3, Section C.25.2, Table C.25.2-1 by changing the description of the Macro invocation equal to Table C.8.9.

C.25.2 Real World Value Mapping Module

Table C.25.2-1 defines the general Attributes of the Real World Value Mapping Module.

**Table C.25.2-1
REAL WORLD VALUE MAPPING MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...			
Referenced Image Real World Value Mapping Sequence	(0040,9094)	1	A sequence of one or more real world value mapping items. Each item defines a single mapping and a list of images to which the mapping applies.
<u>>Include Real World Value Mapping Macro Table C.7.6.16-12</u>			<u>Defined Context ID for Measurement Units Code Sequence is 83 "Units for Real World Value Mapping".</u>
>Include Real World Value Mapping Macro Table C.7.6.16-12, overriding the Defined Context ID for Measurement Units Code Sequence with DCID 83.			
...			