

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2011/08/15
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Correction Number	CP-1111
Log Summary: Correction Palette LUT Descriptor description	
Name of Standard PS 3.3 - 2011	
Rationale for Correction In Sup43 the number of values of the Palette LUT descriptor was erroneously changed from "three" to "four", misunderstanding that this number was referring to the number of possible Palette Color Lookup Table Descriptor elements, not the VM of each of these elements. This CP change it back to its original wording except for the tag numbers of the affected elements and perhaps adding the word "each" before "Palette Color Lookup Table Descriptor": Further, to avoid ambiguity with the word "value" used in the term "input value" in this section, we may want to clarify by adding "Palette Color Lookup Table Descriptor" before each unmodified word "value" in this section.	
Sections of documents affected PS 3.3 Section C.7.6.3.1.5	
Correction Wording:	

C.7.6.3.1.5 Palette Color Lookup Table Descriptor

The **fourth** values of **each** Palette Color Lookup Table Descriptor (0028,1101-1104) describe the format of the Lookup Table Data in the corresponding Data Element (0028,1201-1204) or (0028,1221-1223). In this section, the term "input value" is either the Palette Color Lookup Table input value described in the Enhanced Palette Color Lookup Table Sequence (0028,140B) or if that attribute is absent, the stored pixel value.

The first **Palette Color Lookup Table Descriptor** value is the number of entries in the lookup table. When the number of table entries is equal to 2^{16} then this value shall be 0. The first value shall be identical for each of the Red, Green, Blue and Alpha Palette Color Lookup Table Descriptors.

The second **Palette Color Lookup Table Descriptor** value is the first input value mapped. This input value is mapped to the first entry in the Lookup Table Data. All input values less than the first value mapped are also mapped to the first entry in the Lookup Table Data if the Photometric Interpretation is PALETTE COLOR.

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The third **Palette Color Lookup Table Descriptor** value specifies the number of bits for each entry in the Lookup Table Data. It shall take the value of 8 or 16. The LUT Data shall be stored in a format equivalent to 8 bits allocated when the number of bits for each entry is 8, and 16 bits

allocated when the number of bits for each entry is 16, where in both cases the high bit is equal to bits allocated-1. The third value shall be identical for each of the Red, Green and Blue Palette Color Lookup Table Descriptors.