Correction Number CP-1787

Log Summary: Consistency of Attributes added in Standard Extended SOP Classes

Name of Standard
PS3.2

Rationale for Correction:

Pixel Padding Value in, e.g., an Encapsulated PDF Storage SOP Class has ambiguous VR (US or SS) in the absence of Pixel Representation, and no purpose in the absence of Pixel Data to which it applies.

The encoding choice of a toolkit propagating such an attribute with a value is irrelevant and does not need to be specified in the standard.

It should be made explicit that such combinations are forbidden.

Correction Wording:
Amend DICOM PS3.2 as follows (changes to existing text are bold and underlined for additions and struckthrough for removals):

3.11.3 Standard Extended SOP Class

A SOP Class defined in the DICOM Standard extended in an implementation with additional Type 3 Attributes. The additional Attributes may either be drawn from the Data Dictionary in ????, or may be Private Attributes. The semantics of the related Standard SOP Class shall not be modified by the additional Type 3 Attributes when absent. Therefore, the Standard Extended SOP Class utilizes the same UID as the related Standard SOP Class.

If additional Type 3 Attributes drawn from the Data Dictionary in ???? are sent that effect the encoding of other Attributes, or whose encoding depends on the values of other Attributes, their presence and use shall be consistent. E.g., An Attribute such as Pixel Padding Value (0028,0120) with a dictionary VR of US or SS would not be allowed to be present without Pixel Representation (0028,0103) also being present to resolve the encoding ambiguity. Further, Pixel Padding Value would not be allowed to be present in the absence of the Pixel Data (7FE0,0010) to which it applies.

Note

IODs from a Standard Extended SOP Class may be freely exchanged between DICOM implementations since implementations unfamiliar with the additional Type 3 Attributes would simply ignore them.