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| Status   | Assigned  |
| Date of Last Update  | 2025/11/05  |
| Person Assigned  | David Clunie<br>mailto:dclunie@dclunie.com        |
| Submitter Name   | Jeroen Medema<br>mailto:jeroen.medema@philips.com |
| Submission Date  | 2025/06/03  |
| Correction Number CP-2580  |   |
| Log Summary: Conflicting text in Referenced JPIP Transfer Syntaxes   |   |
| Name of Standard   |   |
| PS3.5  |   |
| Rationale for Correction:  |   |
| The text regarding the presence or absence of Pixel Data (7FE0,0010) is contradictory, since the introduction of Float Pixel Data (7FE0,0008) or Double Float Pixel Data (7FE0,0009) by Sup 172 Parametric Map Storage at which time the description of DICOM JPIP Referenced Transfer Syntax (Explicit VR) was amended. |   |
| Correction Wording:  |   |

Amend DICOM PS3.5 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

## A.6 DICOM JPIP Referenced Transfer Syntax (Explicit VR)

This Transfer Syntax applies to the encoding of the entire DICOM Data Set. This Transfer Syntax shall only be used when ~~Pixel Data (7FE0,0010)~~integer Pixel Data is present~~represented~~ in the top level Data Set, and hence shall not be used when ~~Float Pixel Data (7FE0,0008) or Double Float Pixel Data (7FE0,0009) are present~~floating point Pixel Data is represented. This implies that when a DICOM Data Set is being encoded with ~~the DICOM Little Endian~~this Transfer Syntax the following requirements shall be met:

- a. The Data Elements contained in the Data Set structure shall be encoded with Explicit VR (with a VR Field) as specified in ???.
- b. The encoding of the overall Data Set structure (Data Element Tags, Value Length, and Value) shall be in Little Endian as specified in ???.
- c. The encoding of the Data Elements of the Data Set shall be as follows according to their Value Representations:
  - For all Value Representations defined in this Part, except for the Value Representations OB and OW, the encoding shall be in Little Endian as specified in ???.
  - For the Value Representations OB and OW, the encoding shall meet the following specification depending on the Data Element Tag:
    - Pixel Data (7FE0,0010), Float Pixel Data (7FE0,0008), and Double Float Pixel Data (7FE0,0009) shall not be present, but rather Pixel Data shall be referenced via Data Element (0028,7FE0) Pixel Data Provider URL
    - Overlay data, if present, shall only be encoded in the Overlay Data (60xx,3000) Element, which shall have the Value Representation OB or OW and shall be encoded in Little Endian.
    - Data Element (0028,0004) Photometric Interpretation shall be limited to the Values: MONOCHROME1, MONOCHROME2, YBR\_ICT and YBR\_RCT.

This DICOM JPIP Referenced Transfer Syntax shall be identified by a UID of Value "1.2.840.10008.1.2.4.94".

## A.11 DICOM JPIP HTJ2K Referenced Transfer Syntax (Explicit VR)

This Transfer Syntax applies to the encoding of the entire DICOM Data Set. This Transfer Syntax shall only be used when ~~Pixel Data (7FE0,0010)~~integer Pixel Data is present~~represented~~ in the top level Data Set, and hence shall not be used when ~~Float Pixel Data (7FE0,0008) or Double Float Pixel Data (7FE0,0009) are present~~floating point Pixel Data is represented. This implies that when a DICOM Data Set is being encoded with ~~the DICOM Little Endian~~this Transfer Syntax the following requirements shall be met:

- a. The Data Elements contained in the Data Set structure shall be encoded with Explicit VR (with a VR Field) as specified in ???.
- b. The encoding of the overall Data Set structure (Data Element Tags, Value Length, and Value) shall be in Little Endian as specified in ???.
- c. The encoding of the Data Elements of the Data Set shall be as follows according to their Value Representations:
  - For all Value Representations defined in this Part, except for the Value Representations OB and OW, the encoding shall be in Little Endian as specified in ???.
  - For the Value Representations OB and OW, the encoding shall meet the following specification depending on the Data Element Tag:
    - Pixel Data (7FE0,0010), Float Pixel Data (7FE0,0008), and Double Float Pixel Data (7FE0,0009) shall not be present, but rather Pixel Data shall be referenced via Data Element (0028,7FE0) Pixel Data Provider URL
    - Overlay data, if present, shall only be encoded in the Overlay Data (60xx,3000) Element, which shall have the Value Representation OB or OW and shall be encoded in Little Endian.
    - Data Element (0028,0004) Photometric Interpretation shall be limited to the Values: MONOCHROME1, MONOCHROME2, YBR\_ICT and YBR\_RCT.

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This DICOM JPIP HTJ2K Referenced Transfer Syntax shall be identified by a UID of Value "1.2.840.10008.1.2.4.204".