

DICOM Correction Proposal

STATUS	New
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Correction Number	CP1554
Log Summary:	Clarify Transfer Syntax Parameters
Name of Standard	PS3.18 2015c
Rationale for Correction:	<p>The wording of PS3.18 is not clear. In particular,</p> <ol style="list-style-type: none">1. That is optional for URI mode and required for WS DICOM Requester transaction.2. It is not clear that Explicit VR Little Endian is the default transfer syntax for all Web Services.3. It is not clear the Implicit VR Little Endian and Explicit VR Big Endian transfer syntaxes are prohibited for all Web Services.4. The note about JPIP is no longer needed.
Correction Wording:	

Current Text of PS3.18, Section 8.2.11. This is here for reference only

8.2.11 Transfer Syntax UID

The parameter name shall be "transferSyntax" for URI based mode, and "TransferSyntaxUIDList" containing one or more "TransferSyntaxUID" elements for the WS mode.

The Transfer Syntax to be used within the DICOM image objects, as specified in PS3.6. This parameter is OPTIONAL for the URI based mode and the WS mode "DICOM Requester" transaction. It shall not be present if contentType is other than application/dicom.

By default the DICOM object(s) returned shall be encoded in Explicit VR Little Endian. Neither Implicit VR, nor Big Endian shall be used. The response shall be the Transfer Syntax requested if possible. If it is not possible for the response to be sent using the requested transfer syntax then the Explicit VR Little Endian Uncompressed Transfer Syntax shall be used.

Note

The transfer syntax can be chosen as one of the values of TransferSyntaxUID corresponding to JPIP, in case of which the returned objects will contain the URL of the JPIP session to launch for retrieving the corresponding image.

The value shall be encoded as a unique identifier (UID) string, as specified in PS3.5, except that it shall not be padded to an even length with a NULL character.

Replace PS3.18, Section 8.2.11 with the following:

8.2.11 Transfer Syntax

This parameter specifies one or more Transfer Syntax UIDs to be used to encode DICOM image objects, as specified in PS3.6. It shall only be present if the Acceptable Media Types are DICOM media types.

In URI mode, this is a query parameter named "transferSyntax". Its value is a comma-separated list of one or more Transfer Syntax UIDs. It is OPTIONAL.

In the WS mode DICOM Requester" transaction, this is a "TransferSyntaxUIDList" element containing one or more "TransferSyntaxUID" elements each with a value that is a Transfer Syntax UID string. It is REQUIRED.

Image objects in the response shall be encoded in an Acceptable Transfer Syntax, if possible; otherwise, they shall be encoded in the default Transfer Syntax.

The default transfer syntax for all Web Services is Explicit VR Little Endian (1.2.840.10008.1.2.1).

The Implicit VR Little Endian (1.2.840.10008.1.2) and Explicit VR Big Endian (1.2.840.10008.1.2.2) Transfer Syntaxes shall not be used with Web Services.