

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2020/01/16
Person Assigned	Jim Philbin
Submitter Name	Jim Philbin <jim@philbin.us>
Submission Date	2019/03/18

Correction Number	CP-1922
Log Summary:	Update PS3.19 WADO-RS and STOW-RS to PS3.18 Studies Service Retrieve and Store
Name of Standard	PS3.19 2019e
Rationale for Correction:	PS3.19 uses the obsolete terms WADO, STOW, and QIDO.
Correction Wording:	

Update PS3.19 Table A.1.5-1 as follows:

Table A.1.5-1. Native DICOM Model

Name	Optionality	Cardinality	Description
NativeDicomModel	R	1	<p>An Infoset (as defined in W3C Recommendation XML Information Set "http://www.w3.org/TR/xml-infoset/") representing the content of a DICOM Data Set (as defined in PS3.5).</p> <p>The <code>directivexml:space="preserve"</code> shall be included.</p> <p>Examples include:</p> <ul style="list-style-type: none"> • the contents of an entire DICOM Composite Instance (as defined in PS3.3) in response to a native model request, or • the contents of part of a DICOM Composite Instance in response to a query on a native model, or • the contents of a PS3.18 Studies Service Store (STOW-RS) response • the contents of a Sequence Item (as defined in PS3.5), recursively included within an Infoset Value element.

Include [Table A.1.5-2 "DICOM Data Set Macro"](#)

Update PS3.19 Table A.1.5-2 as follows:

Table A.1.5-2. DICOM Data Set Macro

Name	Optionality	Cardinality	Description
...			
>BulkData	C	1	<p>A reference to a blob of data that the recipient may retrieve through use of the GetData() method, a <u>PS3.18 Studies Service-Retrieve (WADO-RS) call transaction</u> or a <u>PS3.18 Studies Service-Store (STOW-RS) call transaction</u>.</p> <p>Required if the DICOM Data Element represented is not zero length and an XML Infoset Value, Item, InlineBinary or PersonName element is not present.</p> <p>The provider of the data may use a BulkData reference at its discretion to avoid encoding a large DICOM Value Field as text by value in the Infoset. For example, pixel data or look up tables.</p> <p>There is a single BulkData Infoset element representing the entire Value Field, and not one per Value in the case where the Value Multiplicity is greater than one.</p> <p>Note</p> <p>E.g., a LUT with 4096 16 bit entries that may be encoded in DICOM with a Value Representation of OW, with a VL of 8192 and a VM of 1, or a US VR with a VL of 8192 and a VM of 4096 would both be represented as a single BulkData element.</p> <p>All rules (e.g., byte ordering and swapping) in PS3.5 apply.</p> <p>Note</p> <p>Implementers should in particular pay <u>particular</u> attention to the PS3.5 rules regarding the value representations of OD, OF, OL, OV and OW.</p> <p>If the BulkData has a string or text Value Representation, the value(s) of the DICOM Specific Character Set Data Element, if present, might be necessary to determine its encoding.</p>
>>uuid	C	A	<p>An identifier of this bulk data reference formatted as a UUID using the hexadecimal representation defined in ITU-T Recommendation X.667.</p> <p>Required if BulkData URI is not present. Shall not be present otherwise.</p>
>>uri	C	A	<p>The HTTP(S) URI for this bulk data reference.</p> <p>Required if the NativeDicomModel was:</p> <ul style="list-style-type: none"> returned in response to a <u>PS3.18 Studies Service Retrieve (WADO-RS) Retrieve Metadata</u> request <p>Shall not be present otherwise.</p>
>InlineBinary	C	1	<p>The Value Field of the enclosing Attribute encoded as</p>

Name	Optionality	Cardinality	Description
			<p>base64.</p> <p>Required if the DICOM Data Element represented is:</p> <ul style="list-style-type: none"> • not zero length • the VR if the enclosing Attribute is OB, OD, OF, OL, OV, OW, or UN • an XML Infoset Value or BulkData XML element is not present <p>Shall not be present otherwise.</p> <p>There is a single InlineBinary Infoset element representing the entire Value Field, and not one per Value in the case where the Value Multiplicity is greater than one.</p> <p>Note</p> <p>E.g., a LUT with 4096 16 bit entries that may be encoded in DICOM with a Value Representation of OW with a VL of 8192 and a VM of 1 would be represented as a single InlineBinary element.</p> <p>All rules (e.g., byte ordering and swapping) in <u>PS3.5</u> apply.</p> <p>Note</p> <p>Implementers should in-particular pay particular attention to the PS3.5 rules regarding the value representations of OD, OF, OL, OV and OW.</p>