

DICOM Correction Item

Correction Number CP-1039	
Log Summary: Add Document Laterality to Encapsulated Document and Raw Data Module	
Type of Modification	Name of Standard
Addition	PS 3.3 – 2009 PS 3.6 – 2009
<p>Rationale for Correction:</p> <p><i>Re-ballot due to substantial modifications.</i></p> <p>The attribute “Laterality” (0020,0060) is defined in the General Series Module. To specify laterality information more precise, certain IODs furthermore define the attributes “Image Laterality” (0020,0062) and/or “Frame Laterality” (0020,9072).</p> <p>The EPDF IOD does not include the General Series Module, but uses the Encapsulated Document Series Module instead.</p> <p>At instance level, the Encapsulated Document and Raw Data Modules are used, respectively. Neither of those modules includes any kind of laterality information.</p> <p>Especially in Ophthalmology, the EPDF IOD and Raw Data IOD is frequently used to store analysis reports or data from different types of instruments. These instances can relate to one examined eye, but also can contain information about both eyes. It would be very beneficial to display in an overview the related laterality information to an EPDF or Raw SOP Instance. Also querying for only instances that contain information about a certain eye or both eyes is a frequent use case in Ophthalmology.</p> <p>Since in a Series information about both left and right eye may be stored, it is proposed to add an attribute that describes the laterality content of the instances (Image Laterality attribute)</p>	
Sections of documents affected	
PS 3.3 Sections C.19.1 C.24.2	
PS 3.6 Section 6	
Correction Wording:	

Add Image Laterality attribute to Table PS 3.3 C.19-1
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C.19.1 Raw Data Module

Table C.19-1 specifies the attributes that describe a raw data stream.

**Table C.19-1
RAW DATA MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	2	A number that identifies this raw data. The value shall be unique within a series.
Content Date	(0008,0023)	1	The date the raw data creation was started.
Content Time	(0008,0033)	1	The time the raw data creation was started.
Acquisition DateTime	(0008,002A)	3	The date and time that the acquisition of

			data started. Note: The synchronization of this time with an external clock is specified in the synchronization Module in Acquisition Time synchronized (0018,1800).
Image Laterality	(0020,0062)	3	Laterality of (possibly paired) body part examined. Enumerated Values: R = right L = left U = unpaired B = both left and right
Creator-Version UID	(0008,9123)	1	Unique identification of the equipment and version of the software that has created the Raw Data information. The UID allows one to avoid attempting to interpret raw data with an unknown format.
Referenced Instance Sequence	(0008,114A)	3	Other Instances significantly related to this Instance. One or more Items may be included in this Sequence.
<i>>Include 'Image SOP Instance Reference Macro' Table 10-3</i>			
>Purpose of Reference Code Sequence	(0040,A170)	1	Describes the purpose for which the reference is made. Only a single Item shall be permitted in this sequence. See C.7.6.16.2.5.1.
<i>>>Include 'Code Sequence Macro' Table 8.8-1</i>			No Baseline Context ID is defined.
<i>Include any private attributes that contain Raw Data information. See section C.19.1.1 for further explanation.</i>			

Add Image Laterality attribute to Table PS 3.3 C.24-2

C.24.2 Encapsulated Document Module

Table C.24-2 defines the Encapsulated Document Attributes.

**Table C.24-2
Encapsulated Document Module Attributes**

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	1	A number that identifies this SOP Instance. The value shall be unique within a series.
Content Date	(0008,0023)	2	The date the document content creation was started.
Content Time	(0008,0033)	2	The time the document content creation was started.
Acquisition DateTime	(0008,002A)	2	The date and time that the original generation of the data in the document started.
Burned In Annotation	(0028,0301)	1	Indicates whether or not the encapsulated document contains sufficient burned in annotation to identify the

			<p>patient and date the data was acquired.</p> <p>Enumerated Values:</p> <p>YES NO</p> <p>Identification of patient and date as text in an encapsulated document (e.g., in an XML attribute or element) is equivalent to "burned in annotation". A de-identified document may use the value NO.</p>
Source Instance Sequence	(0042,0013)	1C	<p>A sequence that identifies the set of Instances that were used to derive the encapsulated document. One or more Items may be included in this Sequence.</p> <p>Required if derived from one or more DICOM Instances. May be present otherwise.</p>
<i>>Include 'SOP Instance Reference Macro' Table 10-11</i>			
Document Title	(0042,0010)	2	<p>The title of the document.</p> <p>Note: In the case of a PDF encapsulated document, this may be the value of the "Title" entry in the "Document Information Directory" as encoded in the PDF data.</p>
Concept Name Code Sequence	(0040,A043)	2	<p>A coded representation of the document title. Zero or one item may be present.</p>
<i>>Include 'Code Sequence Macro' Table 8.8-1</i>		<i>Baseline Context Group 7020</i>	
Verification Flag	(0040,A493)	3	<p>Indicates whether the Encapsulated Document is Verified. Enumerated Values:</p> <p>UNVERIFIED = Not attested by a legally accountable person.</p> <p>VERIFIED = Attested to (signed) by a Verifying Observer or Legal Authenticator named in the document, who is accountable for its content.</p>
HL7 Instance Identifier	(0040,E001)	1C	<p>Instance Identifier of the encapsulated HL7 Structured Document, encoded as a UID (OID or UUID), concatenated with a caret ("^") and Extension value (if Extension is present in Instance Identifier).</p> <p>Required if encapsulated document is a CDA document.</p>
MIME Type of Encapsulated Document	(0042,0012)	1	<p>The type of the encapsulated document stream described using the MIME Media Type (see RFC 2046).</p>
List of MIME Types	(0042,0014)	1C	<p>MIME Types of subcomponents of the encapsulated document.</p> <p>Required if the encapsulated document incorporates subcomponents with MIME types different than the primary MIME Type of the encapsulated document.</p> <p>Note: An Encapsulated CDA that includes an embedded JPEG image and an embedded PDF would list "image/jpeg\application/pdf".</p>

<u>Image Laterality</u>	<u>(0020,0062)</u>	<u>3</u>	<u>Laterality of the (possibly paired) body part that is the subject of the encapsulated document.</u> <u>Enumerated Values:</u> <u>R = right</u> <u>L = left</u> <u>U = unpaired</u> <u>B = both left and right</u>
Encapsulated Document	(0042,0011)	1	Encapsulated Document stream, containing a document encoded according to the MIME Type.