

# DICOM Correction Proposal

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Correction Number	CP-1514
Log Summary: Add missing attributes to Coded Terminology Macro	
Name of Standard PS3.19 2015c	
<p>Rationale for Correction:</p> <p>Table 10.1-1 (Coded Terminology Macro) in PS3.19 (Application Hosting) has not been updated for the latest approved Correction Items. E.g., CP-1417 added a new optional attribute Mapping Resource UID (0008,0118) to Table 8.8-1 (Code Sequence Macro Attributes) of PS 3.3. Also Context UID (0008,0117) is missing in Table 10.1-1 of PS3.19. This Macro is used only in Table A.2.5-1. Abstract Image Model (i.e., it is not used in the Native Model).</p> <p>This CP makes the content of Table 10.1-1 in PS 3.19 consistent with Table 8.8-1 in PS3.3. Long Code Value (0008,0119) and URN Code Value (0008,0120), which were introduced with CP-1031, are not needed in PS3.19 since their existence is merely caused by the VR restrictions of PS3.5 encoded DICOM objects.</p> <p>Equivalent Code Sequence, which is described in PS3.3 as invoking a nested set of Basic Code Sequence Macro Attributes, is not included, since it is not necessary for the PS3.19 Abstract Model use cases.</p> <p>The capitalization of references to XML elements in this section is also made consistent.</p>	
Correction Wording:	

*Change PS3.19 Section 10.1*

## Coded Terminology

Models may make use of coded terminology. The representation of coded terminology in DICOM is described in PS3.3. Specific terminology of interest, organized in Context Groups in PS3.16, can be referenced using the following macro.

**Table 10.1-1. Coded Terminology Macro**

Name	Optionality	Cardinality	Description
<i>BASIC CODED ENTRY ATTRIBUTES</i>			
CodeValue	R	1	The particular code value identifying the referenced term or concept. See Section 8.1 in PS3.3.  <b>The same XML Element CodeValue is used regardless of the</b>

Name	Optionality	Cardinality	Description
			<b><u>length or encoding of the code value. I.e., separate XML elements are not used when the value is obtained from Long Code Value (0008,0119) or URN Code Value (0008,0120) rather than Code Value (0008,0100).</u></b>
CodingSchemeDesignator	R	1	Designates the coding scheme in which the <u>CcodeValue</u> is defined. See Section 8.2 in PS3.3.
CodingSchemeVersion	C	1	See Section 8.2 in PS3.3. Required if the <u>CcodingSchemeDesignator</u> is not sufficient to identify the <u>CcodeValue</u> <b>unambiguously. May be present otherwise.</b>
CodeMeaning	O	0-1	A brief human readable description of what the coded value means. See Section 8.3 in PS3.3.
<i>ENHANCED ENCODING MODE</i>			
ContextIdentifier	O	0-1	Identifies a Context Group defined within a Mapping Resource from which the values of <u>CcodeValue</u> and <u>CcodeMeaning</u> were selected or have been added as a Private Context Group extension. See Section 8.6 in PS3.3 and Section 8.7 in PS3.3.
<b><u>ContextUID</u></b>	<b><u>O</u></b>	<b><u>0-1</u></b>	<b><u>Uniquely identifies the Context Group. See Section 8.6 in PS3.3.</u></b>
MappingResource	C	1	See Section 8.4 in PS3.3. Required if <del>the <u>CcontextIdentifier</u></del> <b>XML-Attribute</b> is present.
<b><u>MappingResourceUID</u></b>	<b><u>O</u></b>	<b><u>0-1</u></b>	<b><u>Uniquely identifies the Mapping Resource that defines the Context Group.</u></b>
ContextGroupVersion	C	1	See Section 8.5 in PS3.3. Required if <del>the <u>CcontextIdentifier</u></del> <b>XML-Attribute</b> is present.
ContextGroupExtensionFlag	O	0-1	Indicates whether the <del><u>codeValue/codingScheme/codeMeaning</u></del> <b>CodedTerm</b> is selected from a private extension of the Context Group identified in <del>the <u>CcontextIdentifier</u></del> <b>XML-Attribute</b> . See Section 8.7 in PS3.3.  Enumerated Values: "Y" "N"
ContextGroupLocalVersion	C	1	See Section 8.7 in PS3.3. <b><u>Required if the value of ContextGroupExtensionFlag is "Y".</u></b>

Name	Optionality	Cardinality	Description
ContextGroupExtensionCreatorUID	C	1	Identifies the person or organization who created an extension to the Context Group. See Section 8.7 in PS3.3.  Required if the value of <u>C</u> ontextGroupExtensionFlag is "Y".

Change PS3.19 Section A.2.6

## A.2.6 Schema

The Relax NG Compact schema for the Abstract Multi-Dimensional Image Model follows:

...

```

CodedTerm =
  element CodeValue { xsd:string },
  element CodingSchemeDesignator { xsd:string },
  element CodingSchemeVersion { xsd:string }?,
  element CodeMeaning { xsd:string }?,
  (
    element ContextIdentifier { xsd:string },
    element ContextUID { xsd:string }?,
    element MappingResource { xsd:string },
    element MappingResourceUID { xsd:string }?,
    element ContextGroupVersion { xsd:string }
  )?,
  (
    element ContextGroupExtensionFlag { xsd:string },
    element ContextGroupLocalVersion { xsd:string }?,
    element ContextGroupExtensionCreatorUID { xsd:string }?
  )?

```

For reference PS3.3 Section

**Table 8.8-1a. Basic Code Sequence Macro Attributes**

Attribute Name	Tag	Type	Attribute Description
<i>BASIC CODED ENTRY ATTRIBUTES</i>			
Code Value	(0008,0100)	1C	See Section 8.1.  Shall be present if the code value length is 16 characters or less, and the code value is not a URN or URL.
Coding Scheme Designator	(0008,0102)	1C	See Section 8.2.

Attribute Name	Tag	Type	Attribute Description
			Shall be present if Code Value (0008,0100) or Long Code Value (0008,0119) is present. May be present otherwise.
Coding Scheme Version	(0008,0103)	1C	See Section 8.2. Required if the value of Coding Scheme Designator (0008,0102) is present and is not sufficient to identify the Code Value (0008,0100) or Long Code Value (0008,0119) or URN Code Value (0008,0120) unambiguously. May be present otherwise.
Code Meaning	(0008,0104)	1	See Section 8.3.
Long Code Value	(0008,0119)	1C	See Section 8.1. Shall be present if Code Value (0008,0100) is not present and the Code Value is not a URN or URL.
URN Code Value	(0008,0120)	1C	See Section 8.1. Shall be present if Code Value (0008,0100) is not present and the Code Value is a URN or URL.

**Table 8.8-1. Code Sequence Macro Attributes**

Attribute Name	Tag	Type	Attribute Description
<i>BASIC CODED ENTRY ATTRIBUTES</i>			
<i>Include Table 8.8-1a</i>			
Equivalent Code Sequence	(0008,0121)	3	Codes that are considered equivalent by the creating system. One or more Items are permitted in this Sequence. See Section 8.9.
<i>&gt;Include Table 8.8-1a</i>			
<i>ENHANCED ENCODING MODE</i>			
Context Identifier	(0008,010F)	3	See Section 8.6.
Context UID	(0008,0117)	3	See Section 8.6.
Mapping Resource	(0008,0105)	1C	See Section 8.4. Required if Context Identifier (0008,010F) is present.

Attribute Name	Tag	Type	Attribute Description
Mapping Resource UID	(0008,0118)	3	<p>Uniquely identifies the Mapping Resource that defines the Context Group.</p> <p>Note</p> <p>The unique identifier for the DICOM Content Mapping Resource "DCMR" is defined in PS3.6.</p>
Context Group Version	(0008,0106)	1C	See Section 8.5. Required if Context Identifier (0008,010F) is present.
Context Group Extension Flag	(0008,010B)	3	<p>Indicates whether the triplet of Code Value (0008,0100) (or Long Code Value (0008,0119) or URN Code Value (0008,0120))/Coding Scheme Designator (0008,0102)/Code Meaning (0008,0104) is selected from a private extension of the Context Group identified in Context Identifier (0008,010F). See Section 8.7.</p> <p>Enumerated Values:</p> <p><b>Y</b></p> <p><b>N</b></p>
Context Group Local Version	(0008,0107)	1C	See Section 8.7. Required if the value of Context Group Extension Flag (0008,010B) is "Y".
Context Group Extension Creator UID	(0008,010D)	1C	<p>Identifies the person or organization who created an extension to the Context Group. See Section 8.7.</p> <p>Required if the value of Context Group Extension Flag (0008,010B) is "Y".</p>