

## DICOM Correction Item

Correction Number CP-452	
Log Summary: Consolidate SR Container attributes into a Macro	
Type of Modification	Name of Standard
Editorial	PS 3.3 2004
Rationale for Correction:  The attributes associated with an SR Container are defined in a manner dissimilar to the attributes of other Content Items. Moreover, the attributes are scattered across three Macros, making comprehension difficult.  This CP consolidates the attributes into a single Macro consistent with the specifications of other Content Items.  Further, attributes are added to support external Template definitions.	
Sections of documents affected  PS 3.3 Sections 9, C.17, C.18	
Correction Wording:	

*Delete text of PS3.3 Section 9*

### 9 TEMPLATE IDENTIFICATION MACRO (Retired)

**Section 9 was defined in a previous version of the DICOM Standard (see PS3.3-2004). The Section is now retired, and its contents have been consolidated into Section C.18.8.**

A Template for SR Documents defines a set of constraints on the relationships and content (Value Types, Codes, etc.) of Content Items that reference such a Template. Specific Templates for SR Documents are defined either by the DICOM Standard or by users of the Standard for particular purposes.

The presence of a referenced Template reflects that the referenced Template was used in the creation of the associated Content Item. The use by the SR Storage SCP of Templates is beyond the scope of the DICOM Standard. Usage of Templates for SR Documents may improve comparability of essential data, facilitate data entry and revisions, enable automatic processing and simplify presentation of information to the user.

Table 9-1 specifies the set of Attributes that identify Templates. These Attributes comprise the Template Macro. Attribute Descriptions in Table 9-1 refer to similar attributes of the Code Sequence Macro in Section 8.8 of this Part.

**Table 9-1  
 Template Identification Macro Attributes Description**

Attribute Name	Tag	Type	Attribute Description
Template Identifier	(0040,DB00)	1	Template identifier.
Mapping Resource	(0008,0105)	1	Mapping Resource that defines the template. See Section 8.4.

Modify PS3.3 Section C.17.3

**Table C.17-5  
 DOCUMENT CONTENT MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Value Type	(0040,A040)	1	...
Concept Name Code Sequence	(0040,A043)	1C	...
<i>&gt;Include 'Code Sequence Macro' Table 8.8-1</i>		<i>No Baseline Context ID</i>	
<b>Continuity of Content</b>	<b>(0040,A050)</b>	<b>1C</b>	<b>This flag specifies for a CONTAINER whether or not its contained Content Items are logically linked in a continuous textual flow, or are separate items. Required if Value Type (0040,A040) is CONTAINER. Enumerated Values:                  _____ SEPARATE                  _____ CONTINUOUS                  See C.17.3.2 for further explanation.</b>
...			
<b><i>Include 'Container Macro' Table C.18.8-1 if and only if Value Type (0040,A040) is CONTAINER.</i></b>			

**Table C.17-6  
 DOCUMENT RELATIONSHIP MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Observation DateTime	(0040,A032)	1C	...
<b>Content Template Sequence</b>	<b>(0040,A504)</b>	<b>1C</b>	<b>Template that describes the content of this Content Item. Only a single Item shall be permitted in this sequence. Required if a template was used to define the content of this Item, and the template consists of a single CONTAINER with nested content, and it is the outermost invocation of a set of nested templates that start with the same CONTAINER.</b>
<b><i>&gt;Include 'Template Identification Macro' Table 9-1</i></b>		<b><i>No Baseline Template ID is defined.</i></b>	
...			

...

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Date: 2005/1/10  
Status: Final Text

### **C.17.3.2.3 Continuity of Content**

~~**Continuity of Content ...**~~

**See Section C.18.8.1.1.**

Add new PS3.3 Section C.18.8 (changes from original Sections 9 and C.17.3 marked as edits)

### C.18.8 Container Macro

Table C.18.1-1 specifies the Attributes that convey a CONTAINER content item.

**Table C.18.8-1  
 CONTAINER MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Continuity of Content	(0040,A050)	1	This flag specifies for a CONTAINER whether or not its contained Content Items are logically linked in a continuous textual flow, or are separate items.  Enumerated Values:  SEPARATE CONTINUOUS  See C.18.8.1.1 for further explanation.
Content Template Sequence	(0040,A504)	1C	Template that describes the content of this Content Item <b>and its subsidiary Content Items</b> .  Only a single Item shall be permitted in this sequence.  Required if a template was used to define the content of this Item, and the template consists of a single CONTAINER with nested content, and it is the outermost invocation of a set of nested templates that start with the same CONTAINER ( <u>see C.18.8.1.2</u> ).
>Mapping Resource	(0008,0105)	1	Mapping Resource that defines the template. See Section 8.4. <b>Defined Terms:</b>  <b>DCMR = DICOM Content Mapping Resource</b>
>Template Identifier	(0040,DB00)	1	Template identifier.

### C.18.8.1 Container Macro Attribute Descriptions

#### C.18.8.1.1 Continuity of Content

Continuity of Content (0040,A050) specifies whether or not all the Content Items contained in a CONTAINER are logically linked in a continuous textual flow, or are separate entities. It only applies to the children contained in the container, and not their children (which if containers themselves, will have the attribute specified explicitly).

**Notes:** **1.** This allows the interspersing of measurements, codes, and image references, amongst text. For example, the following: "A mass of diameter = 3 cm was detected." can be represented by the following Content Items in a CONTAINER with a Continuity of Content (0040,A050) of CONTINUOUS:

TEXT "A mass of"  
 NUM "Diameter" 3 "cm"  
 TEXT "was detected."

**2. The Continuity of Content applies only to subsidiary Content Items with Relationship Type CONTAINS. Other subsidiary items, e.g., with Relationship Type HAS CONCEPT MOD or HAS OBS CONTEXT, are not part of the Continuity of Content, but apply to the Container as a whole.**

### **C.18.8.1.2 Content Template Sequence**

A Template for SR Documents defines a set of constraints on the relationships and content (Value Types, Codes, etc.) of Content Items ~~that reference such a Template~~. Specific Templates for SR Documents are defined either by the DICOM Standard (see PS3.16) or by users of the Standard for particular purposes. Usage of Templates for SR Documents may improve comparability of essential data, facilitate data-entry and revisions, enable automatic processing and simplify presentation of information to the user.

**An SR Document consists of a Root CONTAINER Content Item with nested content, and as such may be defined by a Template specifying a single CONTAINER with nested content. Sub-trees of an SR Document may similarly be defined by a Template specifying a single CONTAINER with nested content. If created using such a Template, the Root and/or sub-tree shall identify the Template in the CONTAINER Content Item. When a Template invokes (includes) another Template, the outermost invoking Template is the one identified as the defining Template for the CONTAINER in the Content Template Sequence (0040,A504).**

The presence of a referenced Template reflects that the referenced Template was used in the creation of the associated Content Item. The use by the SR Storage SCP of Templates is beyond the scope of the DICOM Standard.

**The Content Template Sequence (0040,A504) identifies the Template that was used in the creation of the associated Content Item and its subsidiary Content Items. A Template is identified by a Mapping Resource (0008,0105) (the entity that manages or registers the Template), and an identifier of the Template. DICOM Standard Templates are identified in Template Identifier (0040,DB00) using the CS value representation.**

**The DICOM Template identifier (0040,DB00) is a string of digits, without leading zeroes, and does not include the string "TID".**