

DICOM Correction Item

Correction Number	CP-463
Log Summary: Clarify that order of template rows is significant	
Type of Modification	Name of Standard
Modification	PS 3.16-2009
Rationale for Correction: Clarify that order of template rows is significant, unless specifically excepted in a particular template definition. Also add an attribute to template tables to explicitly specify that order is not significant. Break out the order non-significant section of TID 2000.	
Sections of documents affected PS 3.16 Section 6 and Annexes A and C	
Correction Wording: <i>Modify PS 3.16 Section 6</i>	

An IOD may specify that particular Standard Templates shall be used or may be used to define or constrain the content of a Content Item construct. A Content Item construct includes a coded concept name and one of several types of coded values. Content Item constructs are used in:

- the main Data Set and recursively nested Content Sequences (0040,A730) of the SR Document Content Module
- the Acquisition Context Sequence (0040,0555) of the Acquisition Context Module,
- the Protocol Context Sequence (0040,0440) and Content Item Modifier Sequence (0040,0441) of the Scheduled Procedure Step Module, Image Acquisition Results Module, and others.
- **the Specimen Preparation Step Content Item Sequence (0040,0612) of the Specimen Module.**

Annexes A and C of this Part define Standard Templates.

Note: Standard Extended and Private Templates may be defined by implementors of the Standard. The rules for definition of Standard Extended and Private SR Templates are similar to the rules for definition of Standard Extended and Private SOP Classes. One row of a Template definition table corresponds to one row of a Module table.

Each Standard Template is specified by a Template table in this Part. Each Template table specifies exactly one Template, corresponding to a pattern of content within a Content Item construct.

Each Template table identifies whether the order of Content Items is significant or not significant. SOP Instances whose content is based on a Template where the order is significant shall encode the top level Content Items in the order they are specified in the Template, and the subsidiary Content Items under each parent item in the order they are specified, and so on for each Nesting Level. The significance of the order applies only to the Template itself; subsidiary included Templates may have a different order significance.

Note: Even if a template specifies that the order is not significant, there may be significance to the order in which Content Items are encoded in a SOP Instance. For example, CONTAINER Content Items with attribute Continuity of Content (0040,A050) value CONTINUOUS encode Content Items in narrative sequence, and procedure logs encode Content Items in time order.

The Content Items from subsidiary templates may be intermingled if and only if the parent and subsidiary all specify that the order is not significant. This permits later refactoring into reusable templates

Modify PS 3.16 Section 6.1

6.1 Template Table field definition

SR Templates are described using tables of the following form:

TID #							
Template Name							
Type: (Non-)Extensible				Order: (Non-)Significant			
NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1							
2							
3							

Acquisition Context Templates are described using tables of the following form:

TID #						
Template Name						
Type: (Non-)Extensible				Order: (Non-)Significant		
	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1						
2						
3						

Protocol Context Templates are described using tables of the following form:

TID #							
Template Name							
Type: (Non-)Extensible				Order: (Non-)Significant			
	NL	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1							
2							
3							

Modify PS 3.16 Section 6.2.5

6.2.5 Extension of Templates

An Extensible Template may be extended in an Application generating SOP Instances to include additional Content Items in its definition. Such Content Items shall not duplicate concepts for which an encoding is defined in the Template. I.e., if a method is provided for the encoding of a concept in the Template, that concept shall not be encoded using a different Content Item in an extension to the Template.

Note: There is no requirement that the included additional Content Items in a Template extension be placed at the end of the Template. The additional Content Items may be included at any semantically appropriate location in the Template, regardless of whether the order of Content Items in the Template is significant.

Modify PS 3.16 Annex A
Instruction to editor: add "Order: Significant" to all template tables in Annex A, except TIDs 2010, 3001, 3320, 3824, 3927.

Modify PS 3.16 Annex A for Order: Non-Significant templates TIDs 2010, 3001, 3320, 3824, 3927.

TID 2010
KEY OBJECT SELECTION
 Type: Non-Extensible Order: Non-Significant

TID 3001
Procedure Log
 Type: Extensible Order: Non-Significant

TID 3320
Conclusions and Recommendations
 Type: Extensible Order: Non-Significant

TID 3824
Summary, Cath
 Type: Extensible Order: Non-Significant

TID 3927
Report Summary
 Type: Extensible Order: Non-Significant

Modify PS 3.16 TID 2000 to break out Order Non-significant narrative

TID 2000 Basic Diagnostic Imaging Report
 Basic report template for general diagnostic imaging interpretation reports.
 Can only be instantiated at the root node and cannot be included in other templates.

TID 2000
BASIC DIAGNOSTIC IMAGING REPORT
 Type: Non-Extensible Order: Significant

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	BCID (7000) Diagnostic Imaging Report Document Titles	1	M		Root node
2	>	HAS CONCEPT MOD	CODE	EV (121058, DCM, "Procedure reported")	1-n	U		

3	>	HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and Descendants	1	M		
4	>	HAS CONCEPT MOD	INCLUDE	DTID (1210) Equivalent Meaning of Concept Name	1-n	U		
5	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context	1	M		
6	>	CONTAINS	CONTAINER	BCID (7001) Diagnostic Imaging Report Headings	1-n	U		
7	>>	HAS OBS CONTEXT	INCLUDE	DTID(1001) Observation Context	1	U		
8	>>		<u>INCLUDE</u>	<u>DTID (2002) Report Narrative</u>	<u>1</u>	<u>M</u>		
8	>>	CONTAINS	CODE	BCID(7002) Diagnostic Imaging Report Elements	1-n	U		
9	>>>	INFERRED FROM	INCLUDE	DTID(2001)Basic Diagnostic Imaging Report Observations	1-n	U		
10	>>	CONTAINS	TEXT	BCID(7002) Diagnostic Imaging Report Elements	1-n	U		
14	>>>	INFERRED FROM	INCLUDE	DTID(2001)Basic Diagnostic Imaging Report Observations	1-n	U		
12	>>	CONTAINS	INCLUDE	DTID(2001)Basic Diagnostic Imaging Report Observations	1-n	U		

TID 2002 Report Narrative

The Report Narrative allows recording of text, code, and numeric observations. The order of Content Items in the template is not significant; the order of Content Items in a SOP Instance may be significant to the narrative flow of the report.

**TID 2002
REPORT NARRATIVE**

Type: Non-Extensible

Order: Non-Significant

	<u>NL</u>	<u>Rel with Parent</u>	<u>VT</u>	<u>Concept Name</u>	<u>VM</u>	<u>Req Type</u>	<u>Condition</u>	<u>Value Set Constraint</u>
1		CONTAINS	CODE	BCID (7002) Diagnostic Imaging Report Elements	1-n	U		
2	>	INFERRED FROM	INCLUDE	DTID (2001)Basic Diagnostic Imaging Report Observations	1-n	U		
3		CONTAINS	TEXT	BCID (7002) Diagnostic Imaging Report Elements	1-n	U		
4	>	INFERRED FROM	INCLUDE	DTID (2001)Basic Diagnostic Imaging Report Observations	1-n	U		
5		CONTAINS	INCLUDE	DTID (2001)Basic Diagnostic Imaging Report Observations	1-n	U		

Modify PS 3.16 Annex C

**TID 3401
ECG Acquisition Context**

Type: Extensible Order: Non-Significant

**TID 3403
Catheterization Acquisition Context**

Type: Extensible Order: Non-Significant

**TID 3450
Cardiac Electrophysiology Acquisition Context**

Type: Extensible Order: Non-Significant

**TID 3470
NM Acquisition Context**

Type: Extensible Order: Non-Significant

**TID 8001
Specimen Preparation**

Type: Extensible Order: Significant

**TID 8002
Specimen Sampling**

Type: Extensible Order: Significant

**TID 8003
Specimen Staining**

Type: Extensible Order: Significant

**TID 8004
Specimen Localization**

Type: Extensible Order: Significant

TID 15100 Contrast Agent/Pre-Medication Protocol Context

This Template specifies medications to be administered prior to a diagnostic imaging protocol, imaging contrast agents to be used in the protocol, and/or bolus agents to be used in the protocol. Each medication or agent may be modified by a specified route of administration. **The top level Content Items of this template may appear in any order in the Protocol Context Sequence, hence the order in this template is not significant. There may be significance in the order in which the Content Items are included in the Protocol Context Sequence, e.g., the requested order in which pre-medications are to be administered.**

Type: Extensible

**TID 15100
Contrast Agent/Pre-Medication Protocol Context**

Type: Extensible Order: Non-Significant

CP-463

Clarify that order of template rows is significant

Date: 2010/06/23

Status: Final Text

TID 15101

NM/PET Protocol Context

Type: Extensible Order: Significant

TID 15200

JJ1017 Protocol Context

Type: Extensible Order: Significant