

DICOM Correction Item

Correction Number		CP-1076
Log Summary: Bad person participant relationship in TID 1020 in Dose SR		
Type of Modification	Name of Standard	
Correction	PS 3.3, 3.16 2009	
<p>Rationale for Correction</p> <p>CP 874 added TID 1020 Person Participant in order to capture who performed and authorized irradiation events.</p> <p>Unfortunately, this template violates the IOD constraints for relationships for the Radiation Dose SR IOD (as well as the Enhanced and Comprehensive SR IODs), by using a PNAME parent content item with a HAS PROPERTIES relationship to children. This makes it illegal in the context of a dose SR as well as non-reusable in other SR.</p> <p>Since PNAME only is allowed to have HAS CONCEPT MOD children in the general case, it is hard to fix TID 1020 to rectify this. Accordingly, change the constraints in the Radiation Dose, Basic Text, Enhanced and Comprehensive SR IODs to allow PNAME to be a parent with the same relationships as TEXT, CODE or NUM, since there is really no need to prohibit this.</p> <p>The choice of child content item types should probably be more selective than for other parent content item types.</p>		
Sections of documents affected		
PS 3.3, 3.16		
Correction Wording:		

For reference PS 3.16:

TID 1020 Person Participant

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**TID 1020
 PERSON PARTICIPANT
 Type: Extensible**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			PNAME	EV (113870,DCM, "Person Name")	1	M		
2	>	HAS PROPERTIES	CODE	EV (113875,DCM, "Person Role in Procedure")	1	M		\$PersonProcedureRole
3	>	HAS PROPERTIES	TEXT	EV (113871,DCM, "Person ID")	1	U		
4	>	HAS PROPERTIES	TEXT	EV (113872,DCM, "Person ID Issuer")	1	U		
5	>	HAS PROPERTIES	TEXT	EV (113873,DCM, "Organization Name")	1	U		
6	>	HAS	CODE	EV (113874,DCM,	1	U		BCID (7452) Organizational

	PROPERTIES		"Person Role in Organization")				Roles
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Amend PS 3.3:

A.35.1.3.1 Basic Text SR IOD Content Constraints

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A.35.1.3.1.2 Relationship Constraints

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Table A.35.1-2 specifies the relationship constraints of this IOD.

**Table A.35.1-2
 RELATIONSHIP CONTENT CONSTRAINTS FOR BASIC TEXT SR IOD**

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE ¹ , IMAGE ¹ , WAVEFORM ¹ , CONTAINER
CONTAINER	HAS OBS CONTEXT	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE ¹
CONTAINER, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹	HAS ACQ CONTEXT	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME
any type	HAS CONCEPT MOD	TEXT, CODE ²
TEXT	HAS PROPERTIES	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹
<u>PNAME</u>	<u>HAS PROPERTIES</u>	<u>TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME</u>
TEXT	INFERRED FROM	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹

Note: 1. Which SOP Classes the IMAGE, WAVEFORM or COMPOSITE Value Type may refer to, is documented in the Conformance Statement for an application (see PS 3.2 and PS 3.4).
 2. The HAS CONCEPT MOD relationship is used to modify the meaning of the Concept Name of a Source Content Item, for example to provide a more descriptive explanation, a different language translation, or to define a post-coordinated concept.

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A.35.2.3.1 Enhanced SR IOD Content Constraints

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A.35.2.3.1.2 Relationship Constraints

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**Table A.35.2-2
RELATIONSHIP CONTENT CONSTRAINTS FOR ENHANCED SR IOD**

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, SCOORD, TCOORD, COMPOSITE ¹ , IMAGE ¹ , WAVEFORM ¹ , CONTAINER
CONTAINER	HAS OBS CONTEXT	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE ¹
CONTAINER, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , NUM	HAS ACQ CONTEXT	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME
any type	HAS CONCEPT MOD	TEXT, CODE ²
TEXT, CODE, NUM	HAS PROPERTIES	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , SCOORD, TCOORD
<u>PNAME</u>	<u>HAS PROPERTIES</u>	<u>TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME</u>
TEXT, CODE, NUM	INFERRED FROM	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , SCOORD, TCOORD
SCOORD	SELECTED FROM	IMAGE ¹
TCOORD	SELECTED FROM	SCOORD, IMAGE ¹ , WAVEFORM ¹

- Note:
1. Which SOP Classes the IMAGE, WAVEFORM or COMPOSITE Value Type may refer to, is documented in the Conformance Statement for an application (see PS 3.2 and PS 3.4).
 2. The HAS CONCEPT MOD relationship is used to modify the meaning of the Concept Name of a Source Content Item, for example to provide a more descriptive explanation, a different language translation, or to define a post-coordinated concept.

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A.35.3.3.1 Comprehensive SR IOD Content Constraints

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A.35.3.3.1.2 Relationship Constraints

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**Table A.35.3-2
RELATIONSHIP CONTENT CONSTRAINTS FOR COMPREHENSIVE SR IOD**

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, SCOORD, TCOORD, COMPOSITE ¹ , IMAGE ¹ , WAVEFORM ¹ , CONTAINER (See below).
TEXT, CODE, NUM, CONTAINER	HAS OBS CONTEXT	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE ¹
CONTAINER, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , NUM	HAS ACQ CONTEXT	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, CONTAINER.
any type	HAS CONCEPT MOD	TEXT, CODE ²
TEXT, CODE, NUM	HAS PROPERTIES	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , SCOORD, TCOORD, CONTAINER.
<u>PNAME</u>	<u>HAS PROPERTIES</u>	<u>TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME</u>
TEXT, CODE, NUM	INFERRED FROM	TEXT, CODE, NUM, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE ¹ , WAVEFORM ¹ , COMPOSITE ¹ , SCOORD, TCOORD, CONTAINER.
SCOORD	SELECTED FROM	IMAGE ¹
TCOORD	SELECTED FROM	SCOORD, IMAGE ¹ , WAVEFORM ¹

- Note: 1. Which SOP Classes the IMAGE, WAVEFORM or COMPOSITE Value Type may refer to, is documented in the Conformance Statement for an application (see PS 3.2 and PS 3.4).
2. The HAS CONCEPT MOD relationship is used to modify the meaning of the Concept Name of a Source Content Item, for example to provide a more descriptive explanation, a different language translation, or to define a post-coordinated concept.

The HAS CONCEPT MOD and CONTAINS relationships shall not be conveyed by-reference.

Relationships by-reference to ancestor Content Items are forbidden in this IOD to prevent loops.

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A.35.8.3.1 X-Ray Radiation Dose SR IOD Content Constraints

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A.35.8.3.1.3 Relationship Constraints

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Table A.35.8-2

RELATIONSHIP CONTENT CONSTRAINTS FOR X-RAY RADIATION DOSE SR IOD

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, CODE, NUM, DATETIME, UIDREF, PNAME, IMAGE, COMPOSITE, CONTAINER
CONTAINER	HAS OBS CONTEXT	DATETIME, CODE, TEXT, UIDREF, PNAME
TEXT, CODE, NUM	HAS OBS CONTEXT	TEXT, CODE, NUM, DATETIME, UIDREF, PNAME, COMPOSITE
CONTAINER, IMAGE, COMPOSITE	HAS ACQ CONTEXT	TEXT, CODE, NUM, DATETIME, UIDREF, PNAME, CONTAINER.
any type	HAS CONCEPT MOD	TEXT, CODE
TEXT, CODE, NUM	HAS PROPERTIES	TEXT, CODE, NUM, DATETIME, UIDREF, PNAME, IMAGE, COMPOSITE, CONTAINER.
<u>PNAME</u>	<u>HAS PROPERTIES</u>	<u>TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME</u>
TEXT, CODE, NUM	INFERRED FROM	TEXT, CODE, NUM, DATETIME, UIDREF, IMAGE, COMPOSITE, CONTAINER.