

DICOM Correction Proposal

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Person Assigned	Ulrich Busch (ulrich.busch@varian.com)
Submitter Name	Ulrich Busch (ulrich.busch@varian.com)
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Correction Number	1782
Log Summary: Type of Patient ID Clarification	
Name of Standard PS3.3, PS3.4 2018c	
Rationale for Correction: The definition of allowed values in Type of Patient ID (0010,0022) is inconsistent. C.2.2 Patient Identification Module uses Enumerated Values, while C.7.1.1 Patient Module uses Defined Terms. The definition in C.2.2 Patient Identification Module is changed from Enumerated Values to Defined Terms. It can be expected that systems handling this attribute have foreseen to support any value due to the specification in the composite object module C.7.1.1 and therefore no real-world implementation issues should occur. Additionally, the Type of Patient ID (0010,0022) is added to the specification of Unified Worklist and Procedure Step and to Modality Performed Procedure Step to complete the specification of Other Patient IDs.	
Correction Wording:	

In PS 3.3, Section C.2.2, apply the following changes:

C.2.2 Patient Identification Module

Table C.2-2 defines the Attributes relevant to identifying a patient.

Table C.2-2. Patient Identification Module Attributes

Attribute Name	Tag	Attribute Description
Patient's Name	(0010,0010)	Patient's full name
Patient ID	(0010,0020)	Primary identifier for the patient. Note In the case of imaging a group of small animals simultaneously, the single value of this identifier corresponds to the identification of the entire group. See also Section C.7.1.4.1.1.
<i>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>		
Other Patient IDs Sequence	(0010,1002)	A sequence of identification numbers or codes used to identify the patient, which may or may not be human readable, and may or may not have been

Attribute Name	Tag	Attribute Description
		obtained from an implanted or attached device such as an RFID or barcode. One or more Items are permitted in this Sequence. Note This Attribute replaces the use of Other Patient IDs (0010,1000), which did not specify an issuer for each other identifier, and which has been retired.
>Patient ID	(0010,0020)	An identifier for the patient.
<i>>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>		
>Type of Patient ID	(0010,0022)	The type of identifier in this item. Enumerated Values Defined Terms: TEXT RFID BARCODE Note The identifier is coded as a string regardless of the type, not as a binary value.
Other Patient Names	(0010,1001)	Other names used to identify the patient.
...		

For reader's convenience – no change

C.7.1.1 Patient Module

Table C.7-1 specifies the Attributes of the Patient that describe and identify the Patient who is the subject of a Study. This Module contains Attributes of the patient that are needed for interpretation of the Composite Instances and are common for all studies performed on the patient. It contains Attributes that are also included in the Patient Modules in Section C.2.

Table C.7-1. Patient Module Attributes

Attribute Name	Tag	Type	Attribute Description
Patient's Name	(0010,0010)	2	Patient's full name.
Patient ID	(0010,0020)	2	Primary identifier for the patient. Note In the case of imaging a group of small animals simultaneously, the single value of this identifier corresponds to the identification of the entire group. See also Section C.7.1.4.1.1.
<i>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>			
Patient's Birth Date	(0010,0030)	2	Birth date of the patient.
...			

Attribute Name	Tag	Type	Attribute Description
Other Patient IDs Sequence	(0010,1002)	3	A sequence of identification numbers or codes used to identify the patient, which may or may not be human readable, and may or may not have been obtained from an implanted or attached device such as an RFID or barcode. One or more Items are permitted in this Sequence. Note This Attribute replaces the use of Other Patient IDs (0010,1000), which did not specify an issuer for each other identifier, and which has been retired.
>Patient ID	(0010,0020)	1	An identifier for the patient. Note In the case of imaging a group of small animals simultaneously, the single value of this identifier corresponds to the identification of the entire group. See also Section C.7.1.4.1.1.
<i>>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>			
>Type of Patient ID	(0010,0022)	1	The type of identifier in this item. Defined Terms: TEXT RFID BARCODE Note The identifier is coded as a string regardless of the type, not as a binary value.
Other Patient Names	(0010,1001)	3	Other names used to identify the patient.
...			

In PS 3.3, Section C.30.4, apply the following changes:

C.30.4 Unified Procedure Step Relationship Module

Table C.30.4-1 specifies the Attributes that describe the relationship of a Unified Procedure Step (UPS).

Table C.30.4-1. Unified Procedure Step Relationship Module Attributes

Attribute Name	Tag	Attribute Description
Patient's Name	(0010,0010)	Patient's full legal name.
Patient ID	(0010,0020)	Primary identifier for the patient. Note In the case of imaging a group of small animals simultaneously, the single value of this identifier corresponds to the identification of the entire group. See also Section C.7.1.4.1.1. See Section C.30.4.1

Attribute Name	Tag	Attribute Description
<i>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>		
Other Patient IDs Sequence	(0010,1002)	Identification numbers or codes used to identify the patient, which may or may not be human readable, and may or may not have been obtained from an implanted or attached device such as an RFID or barcode. Zero or more Items shall be included in this Sequence.
>Patient ID	(0010,0020)	An identifier for the patient.
<i>>Include Table 10-18 "Issuer of Patient ID Macro Attributes"</i>		
>Type of Patient ID	(0010,0022)	The type of identifier in this item. Defined Terms: TEXT _____ RFID _____ BARCODE _____ Note The identifier is coded as a string regardless of the type, not as a binary value.
Patient's Birth Date in Alternative Calendar	(0010,0033)	Date of birth of the named patient in the Alternative Calendar (0010,0035). Note No format is specified for alternative calendar dates so none should be assumed.
...		

In PS 3.4, Section F.7.2.1.1, apply the following changes:

F.7.2.1.1 Modality Performed Procedure Step Subset Specification

The Application Entity that claims conformance to this SOP Class as an SCU must provide all Required Attributes as specified in Table F.7.2-1. Optional Attributes maintained by the SCP may be provided as well. The Application Entity that claims conformance as an SCP to this SOP Class shall support the subset of the Modality Performed Procedure Step Attributes specified in Table F.7.2-1.

Table F.7.2-1. Modality Performed Procedure Step SOP Class N-CREATE, N-SET and Final State Attributes

Attribute Name	Tag	Req. Type N-CREATE (SCU/SCP)	Req. Type N-SET (SCU/SCP)	Requirement Type Final State (see Note 1)
...				
Performed Procedure Step Relationship				

Attribute Name	Tag	Req. Type N-CREATE (SCU/SCP)	Req. Type N-SET (SCU/SCP)	Requirement Type Final State (see Note 1)
Scheduled Step Attribute Sequence	(0040,0270)	1/1	Not allowed	
...				
Patient's Name	(0010,0010)	2/2	Not allowed	
Patient ID	(0010,0020)	2/2	Not allowed	
Issuer of Patient ID	(0010,0021)	3/3	Not allowed	
Issuer of Patient ID Qualifiers Sequence	(0010,0024)	3/3	Not allowed	
>Universal Entity ID	(0040,0032)	3/3	Not allowed	
>Universal Entity ID Type	(0040,0033)	1C/1C Required if Universal Entity ID (0040,0032) is present.	Not allowed	
>All other Attributes of the Issuer of Patient ID Qualifiers Sequence		3/3	Not allowed	
Other Patient IDs Sequence	(0010,1002)	3/3	Not allowed	
>Patient ID	(0010,0020)	3/3	Not allowed	
>Issuer of Patient ID	(0010,0021)	3/3	Not allowed	
>Issuer of Patient ID Qualifiers Sequence	(0010,0024)	3/3	Not allowed	
>>All other Attributes of the Issuer of Patient ID Qualifiers Sequence		3/3	Not allowed	
>Type of Patient ID	(0010,0022)	3/3	Not allowed	
Patient's Birth Date	(0010,0030)	2/2	Not allowed	

In PS 3.4, Section CC.2.5.1.3, apply the following changes:

CC.2.5.1.3 UPS Attribute Service Requirements

This table combines the Attribute requirements for multiple DIMSE services (N-CREATE, N-SET, N-GET, C-FIND) to facilitate consistency between the requirements.

See PS3.4 for the meaning of the requirement codes used in the N-CREATE, N-SET, N-GET and Return Key columns in the following table.

See Section C.1.2 for the meaning of the requirement codes used in the Match Key column in the following table.

See Table CC.2.5-1 for the meaning of the requirement codes used in the Final State column of the following table.

Table CC.2.5-3. UPS SOP Class N-CREATE/N-SET/N-GET/C-FIND Attributes

Attribute Name	Tag	Req. Type N-CREATE (SCU/SCP)	Req. Type N-SET (SCU/SCP)	Final State	Req. Type N-GET (SCU/SCP)	Match Key Type	Return Key Type	Remark/Matching Type
...								
Unified Procedure Step Relationship Module								
Patient's Name	(0010,0010)	2/2	Not allowed	O	3/2	R	2	
Patient ID	(0010,0020)	1C/2	Not allowed	O	3/2	R	2	Required if the subject of the workitem requires identification or if the workitem is expected to result in the creation of objects that identify the subject. See Section C.30.4.1 "Patient Identification" in PS3.3
<i>Include Table CC.2.5-2e "Issuer of Patient ID Macro"</i>								
Other Patient IDs Sequence	(0010,1002)	2/2	3/3	O	3/2	O	2	
>Patient ID	(0010,0020)	1/1	1/1	O	-/1	O	1	
<i>>Include Table CC.2.5-2e "Issuer of Patient ID Macro"</i>								
>Type of Patient ID	(0010,0022)	3/3	3/3	O	3/3	O	3	
Patient's Birth Date	(0010,0030)	2/2	Not allowed	O	3/2	R	2	