

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2018/11/11
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Correction Number	CP-1809
Log Summary: Add Coded form of Institutional Department	
Name of Standard PS3.3, PS3.4, PS3.6, PS3.15 2018d	
Rationale for Correction: DICOM has a text and coded form of Institution (i.e., Institution Name (0008,0080) & Institution Code Sequence (0008,0082)) but only a text form for Institutional Department Name (0008,1040) despite having a logical set of codes to populate a code (CID 7030 "Institutional Departments, Units and Services") An attribute for Institutional Department Type Code Sequence (0008,1041) is added that will typically reference Baseline CID 7030. Institutional Department Name (0008,1040) and Institutional Department Type Code Sequence (0008,1041) are also be added to the Visit Identification Module and tables that identify institutions where equipment or people are located. For documents, Responsible Group Code Sequence (0008,0220) is used in the Custodial Organization Sequence (0040,A07C) instead, using the same CID per Protocol Storage.	
Correction Wording: <include proposed change below, following guidelines for formatting of changes in supplements>	

Modify PS3.3 10.1 as shown:

Table 10-1. Person Identification Macro Attributes Description

Attribute Name	Tag	Type	Attribute Description
Person Identification Code Sequence	(0040,1101)	1	A coded entry that identifies a person. The Code Meaning attribute, though it will be encoded with a VR of LO, may be encoded according to the rules of the PN VR (e.g., caret '^' delimiters shall separate name components), except that a single component (i.e., the whole name unseparated by caret delimiters) is not permitted. Name component groups for use with multi-byte character sets are permitted, as long as they fit within the 64 characters (the length of the LO VR). One or more Items shall be included in this Sequence.
<i>>Include Table 8.8-1 "Code Sequence Macro Attributes"</i>			<i>No Baseline CID is defined.</i>
Person's Address	(0040,1102)	3	Person's mailing address
Person's Telephone Numbers	(0040,1103)	3	Person's telephone number(s)

Attribute Name	Tag	Type	Attribute Description
Person's Telecom Information	(0040,1104)	3	The person's telecommunication contact information, including telephone, email, or other telecom addresses. Note 1. This attribute may have internal format or structure in accordance with local agreement or profile. In the absence of such agreement or prior formatting, use of ITU-T E.123 is suggested. 2. It is recommended that this attribute be treated as equivalent to HL7v2 (v2.5 or later) field ROL-12, and be formatted in accordance with the HL7v2 XTN data type (without escapes for HL7 message structure reserved characters). See additional notes in the Module invoking this Macro.
Institution Name	(0008,0080)	1C	Institution or organization to which the identified individual is responsible or accountable. Required if Institution Code Sequence (0008,0082) is not present.
Institution Address	(0008,0081)	3	Mailing address of the institution or organization to which the identified individual is responsible or accountable.
Institution Code Sequence	(0008,0082)	1C	Institution or organization to which the identified individual is responsible or accountable. Required if Institution Name (0008,0080) is not present. Only a single Item shall be included in this Sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"			Baseline CID 5002 "Organizations".
<u>Institutional Department Name</u>	<u>(0008,1040)</u>	<u>3</u>	<u>The Department, Unit or Service within the healthcare facility.</u>
<u>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Note: This might be obtained from a corresponding HL7v2 message containing PV1:10 Hospital Service.</u> <u>Only a single item is permitted in this Sequence.</u>
<u>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>

Modify PS3.3 C.3.2 as shown:

C.3.2 Visit Identification Module

Table C.3-2 defines the Attributes relevant to identifying a visit.

Table C.3-2. Visit Identification Module Attributes

Attribute Name	Tag	Attribute Description
Institution Name	(0008,0080)	Institution where the equipment is located
Institution Address	(0008,0081)	Mailing Address of the institution where the equipment is located

Attribute Name	Tag	Attribute Description
Institution Code Sequence	(0008,0082)	A sequence that conveys the healthcare facility identification. Only a single Item shall be included in this Sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"		No Baseline CID is defined.
<u>Institutional Department Name</u>	<u>(0008,1040)</u>	<u>The Department, Unit or Service within the healthcare facility.</u>
<u>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Note: This might be obtained from a corresponding HL7v2 message containing PV1:10 Hospital Service.</u> <u>Only a single item is permitted in this Sequence.</u>
>Include Table 8.8-1 "Code Sequence Macro Attributes"		<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
Admission ID	(0038,0010)	Identification number of the visit as assigned by the healthcare provider
Issuer of Admission ID Sequence	(0038,0014)	Identifier of the Assigning Authority that issued the Admission ID. Only a single Item shall be included in this Sequence.
>Include Table 10-17 "HL7v2 Hierarchic Designator Macro Attributes"		
Service Episode ID	(0038,0060)	Identifier of the Service Episode as assigned by the healthcare provider
Issuer of Service Episode ID Sequence	(0038,0064)	Identifier of the Assigning Authority that issued the Service Episode ID. Only a single Item shall be included in this Sequence.
>Include Table 10-17 "HL7v2 Hierarchic Designator Macro Attributes"		
Service Episode Description	(0038,0062)	Description of the type of service episode.

Modify PS3.3 C.7.5.1 as shown:

C.7.5.1 General Equipment Module

Table C.7-8 specifies the Attributes that identify and describe the piece of equipment that produced a Series of Composite Instances.

Table C.7-8. General Equipment Module Attributes

Attribute Name	Tag	Type	Attribute Description
Manufacturer	(0008,0070)	2	Manufacturer of the equipment that produced the composite instances.
Institution Name	(0008,0080)	3	Institution where the equipment that produced the composite instances is located.

Attribute Name	Tag	Type	Attribute Description
Institution Address	(0008,0081)	3	Mailing address of the institution where the equipment that produced the composite instances is located.
Station Name	(0008,1010)	3	User defined name identifying the machine that produced the composite instances.
Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment that produced the composite instances is located.
<u>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
<u>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
Manufacturer's Model Name	(0008,1090)	3	Manufacturer's model name of the equipment that produced the composite instances.
...			

Modify PS3.3 Table C.8-50 as shown:

Table C.8-50. RT Beams Module Attributes

Attribute Name	Tag	Type	Attribute Description
Beam Sequence	(300A,00B0)	1	Sequence of treatment beams for current RT Plan. One or more Items shall be included in this Sequence.
...			
>Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment is located that is to be used for beam delivery.
<u>>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
<u>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
>Manufacturer's Model Name	(0008,1090)	3	Manufacturer's model name of the equipment that is to be used for beam delivery.
...			

Modify PS3.3 Table C.8-51 as shown:

Table C.8-51. RT Brachy Application Setups Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
>Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment is located that is to be used for treatment delivery.
<u>>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
<u>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
>Manufacturer's Model Name	(0008,1090)	3	Manufacturer's model name of the equipment that is to be used for treatment delivery.
...			

Modify PS3.3 Table C.8-54 as shown:

Table C.8-54. RT Treatment Machine Record Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
>Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment is located that was used for treatment delivery.
<u>>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
<u>>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
>Manufacturer's Model Name	(0008,1090)	2	Manufacturer's model name of the equipment used for treatment delivery.
...			

Modify PS3.3 Table C.8.8.25-1 as shown:

Table C.8.8.25-1. RT Ion Beams Module Attributes

Attribute Name	Tag	Type	Description
...			
>Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment is located that is to be used for beam delivery.
<u>>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u>

Attribute Name	Tag	Type	Description
			<u>Only a single item is permitted in this Sequence</u>
>>Include Table 8.8-1 “Code Sequence Macro Attributes”			<u>Baseline CID 7030 “Institutional Departments, Units and Services”</u>
>Manufacturer's Model Name	(0008,1090)	3	Manufacturer's model name of the equipment that is to be used for beam delivery.
...			

Modify PS3.3 Table C.12-1 as shown:

Table C.12-1. SOP Common Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
Contributing Equipment Sequence	(0018,A001)	3	Sequence of Items containing descriptive attributes of related equipment that has contributed to the acquisition, creation or modification of the composite instance. One or more Items are permitted in this Sequence. See Section C.12.1.1.5 for further explanation.
...			
>Institutional Department Name	(0008,1040)	3	Department in the institution where the equipment that contributed to the composite instance is located.
<u>>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
>>Include Table 8.8-1 “Code Sequence Macro Attributes”			<u>Baseline CID 7030 “Institutional Departments, Units and Services”</u>
>Operators' Name	(0008,1070)	3	Name(s) of the operator(s) of the contributing equipment.
...			

Modify PS3.3 Table C.17-2 as shown:

Table C.17-2. SR Document General Module Attributes

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	1	A number that identifies the SR Document.
...			

Attribute Name	Tag	Type	Attribute Description
Custodial Organization Sequence	(0040,A07C)	3	Custodial organization for this SR Document instance. Represents the organization from which the document originates and that is in charge of maintaining the document, i.e., the steward of the original source document. Note This may or may not be identical to the Institution identified in the General Equipment Module. Only a single item is permitted in this Sequence.
>Institution Name	(0008,0080)	2	Name of Custodial Institution or Organization.
>Institution Code Sequence	(0008,0082)	2	Coded identifier of Custodial Institution or Organization. Zero or one Item shall be included in this Sequence.
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			No Baseline CID is defined.
>Responsible Group Code Sequence	(0008,0220)	3	<u>The department, unit or service that is responsible for the management of this instance.</u> <u>See Section C.34.2.3.</u> <u>Only a single Item is permitted in this Sequence.</u>
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
Predecessor Documents Sequence	(0040,A360)	1C	References to SOP Instances (e.g., prior or preliminary reports) whose content has been wholly or partially included in this document with or without modification. One or more Items shall be included in this Sequence. Required if this document includes content from other documents. Note The amendment process of an existing SR Document may be described using the Purpose of Reference Code Sequence.
...			

Modify PS3.3 Table C.17-3b as shown:

Table C.17-3b. Identified Person or Device Macro Attributes

Attribute Name	Tag	Type	Attribute Description
...			

Attribute Name	Tag	Type	Attribute Description
Institution Name	(0008,0080)	2	Institution or organization to which the identified person is responsible or accountable, or that manages the identified device.
Institution Code Sequence	(0008,0082)	2	Institution or organization to which the identified person is responsible or accountable, or that manages the identified device. Zero or one Item shall be included in this Sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"			No Baseline CID is defined.
Institutional Department Name	(0008,1040)	3	Department in the institution or organization to which the identified person is responsible or accountable, or that manages the identified device.
<u>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>3</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence</u>
<u>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>			<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>

Modify PS3.3 Table C.32.1-1 as shown:

Table C.32.1-1. Display System Module Attributes

Attribute Name	Tag	Description
...		
Station Name	(0008,1010)	User defined name identifying the Display System.
Institutional Department Name	(0008,1040)	Department name in the institution where the Display System is located.
<u>Institutional Department Type Code Sequence</u>	<u>(0008,1041)</u>	<u>A coded description of the type of Department or Service within the healthcare facility.</u> <u>Only a single item is permitted in this Sequence.</u>
<u>>Include Table 8.8-1 "Code Sequence Macro Attributes"</u>		<u>Baseline CID 7030 "Institutional Departments, Units and Services"</u>
Manufacturer's Model Name	(0008,1090)	Manufacturer's model name of the Display System.
...		

Modify PS3.4 Table EE.2.2.1-2 as shown:

Table EE.2.2.1-2. Display System N-GET Attributes

Attribute Name	Tag	Usage SCU/SCP
...		

Attribute Name	Tag	Usage SCU/SCP
Display System Module		
Manufacturer	(0008,0070)	3/1
Institution Name	(0008,0080)	3/1
Institution Address	(0008,0081)	3/1
Device Serial Number	(0018,1000)	3/1
Station Name	(0008,1010)	3/2
Institutional Department Name	(0008,1040)	3/2
Institutional Department Type Code Sequence	(0008,1041)	3/3
>Include Table CC.2.5-2a "UPS Code Sequence Macro"		
Manufacturer's Model Name	(0008,1090)	3/1

Modify PS3.4 Table II.6-1 as shown:

Table II.6-1. Attributes for the Protocol Approval Information Model

Description / Module	Tag	Matching Key Type	Return Key Type	Remark / Matching Type
...				
>>Institutional Department Name	(0008,1040)	U	2	
>>Institutional Department Type Code Sequence	(0008,1041)	U	3	
>>>Code Value	(0008,0100)	R	1	<u>This Attribute shall be retrieved with Single Value or Universal matching.</u>
>>>Coding Scheme Designator	(0008,0102)	R	1	<u>This Attribute shall be retrieved with Single Value or Universal matching.</u>
>>>Code Meaning	(0008,0104)	:	1	
>Assertion DateTime	(0044,0104)	R	1	This Attribute shall be retrieved with Single Value or Range Matching.
...				

Add tag to PS3.6 Table 6-1

<u>Tag</u>	<u>Name</u>	<u>Keyword</u>	<u>VR</u>	<u>VM</u>	
(0008,1041)	<u>Institutional Department Type Code Sequence</u>	<u>InstitutionalDepartmentTypeCodeSequence</u>	<u>SQ</u>	<u>1</u>	

Add tag to PS3.15 Table E.1-1

Table E.1-1. Application Level Confidentiality Profile Attributes

Attribute Name	Tag	Retd. (from PS3.6)	In Std. Comp. IOD (from PS3.3)	Basic Prof.	Rtn. Safe Priv. Opt.	Rtn. UIDs Opt.	Rtn. Dev. Id. Opt.	Rtn. Inst. Id. Opt.	Rtn. Pat. Chars. Opt.	Rtn. Long. Full Dates Opt.	Rtn. Long. Modif. Dates Opt.	Clean Desc. Opt.	Clean Struct. Cont. Opt.	Clean Graph. Opt.
...														
<u>Institutional Department Type Code Sequence</u>	(0008,1041)	<u>N</u>	<u>Y</u>	<u>X</u>				<u>K</u>						
...														

Add tag to PS3.15 Table H.1-2 (LDAP)

Table H.1-2. Attributes of Device Object

Information Field	Multiplicity	Description
Device Name	1	A unique name (within the scope of the LDAP database) for this device. It is restricted to legal LDAP names, and not constrained by DICOM AE Title limitations.
...		
Institution Name	0..N	Should be the same as the value of Institution Name (0008,0080) in SOP Instances created by this device.
Institution Address	0..N	Should be the same as the value of Institution Address (0008,0081) attribute in SOP Instances created by this device.
Institutional Department Name	0..N	Should be the same as the value of Institutional Department Name (0008,1040) in SOP Instances created by this device.
<u>Institutional Department Type Code Sequence</u>	<u>0..N</u>	<u>Should be the same as the value of Institutional Department Type Code Sequence (0008,1041) in SOP Instances created by this device.</u>
Issuer of Patient ID	0..1	Default value for the Issuer of Patient ID (0010,0021) for SOP Instances created by this device. May be overridden by the values received in a worklist or other source.
...		


```
attributetype ( 1.2.840.10008.15.0.3.17
  NAME 'dicomPrimaryDeviceType'
  DESC 'The device Primary Device type'
  EQUALITY caseExactIA5Match
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
```

...

```
# 3.28 dicomInstitutionDepartmentName    string    Multiple
#
#   This attribute stores the institution department name of the device.
#   Should be the same as the value of Institutional Department Name (0008,1040)
#   in SOP Instances created by this device.
#
#   It is a multi-valued attribute.
#   This attribute's syntax is 'Directory String'.
```

```
attributetype ( 1.2.840.10008.15.0.3.28
  NAME 'dicomInstitutionDepartmentName'
  DESC 'Institution department name of the device. Should be the same as the value of
Institutional
  Department Name (0008,1040) in SOP Instances created by this device.'
  EQUALITY caseIgnoreMatch
  SUBSTR caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.15 )
```

```
# 3.31 dicomInstitutionDepartmentType    string    Multiple
#
#   This attribute stores the institution department type of the device.
#   Should be the same as the value of Institutional Department Type Code
#   Sequence (0008,1041) in SOP Instances created by this device.
#   Types should be selected from the list of code values (0008,0100)
#   for Context ID 7030 in DICOM Part 16 when applicable.
#
#   It is a multi-valued attribute.
#   This attribute's syntax is 'IA5 String'.
```

```
attributetype ( 1.2.840.10008.15.0.3.31
  NAME 'dicomInstitutionDepartmentType'
  DESC 'Institution department type of the device. Should be the same as the value of
Institutional
  Department Type Code Sequence (0008,1041) in SOP Instances created by this
device.'
  EQUALITY caseIgnoreMatch
  SUBSTR caseIgnoreSubstringsMatch
  SYNTAX 1.3.6.1.4.1.1466.115.121.1.26 )
```