

DICOM Correction Proposal Form

Tracking Information - Administration Use Only	
Correction Proposal Number	CP-247
STATUS	Assigned
Date of Last Update	2001/09/10
Person Assigned	David Clunie dclunie@dclunie.com
Submitter Name	David Clunie dclunie@dclunie.com
Submission date	2001/01/30

Correction Number	CP-xxx
Log Summary: Codes for persons in composite objects	
Type of Modification	Name of Standard
Addition	PS 3.3, 3.6 2000
<p>Rationale for Correction</p> <p>Recently introduced supplements to the standard such as Structured Reporting and General Purpose Worklist have included the notion of referring to individual physicians, providers or other persons not only by name (in attributes with a PN VR), but also by reference to a coded sequence item (which contains a coding scheme such as a national provider identifier, a code value which is the identifier within that scheme, and the code meaning which is their name in an unconstrained format (i.e. however it is defined in the coding scheme)).</p> <p>Existing composite objects contain various fields for referring to physicians and other providers, but no mechanism for using coded entries. This means that when two people have the same name there is no way to disambiguate them. Furthermore, variation in entry of the name information may result in failure to match them as the saem individual.</p> <p>Accordingly, it is proposed that optional attributes be added to general modules to allow both a coded identifier and the person's organization to be conveyed.</p> <p>Similarly, corresponding optional attributes are added to the modality worklist and performed procedure step IODs (no PS 3.4 changes are required due to "all other attributes" clauses).</p> <p>Incidentally, a discrepancy in the name of attribute (0008,0094) between PS 3.3 (.. Phone Numbers) and PS 3.6 (... Telephone Numbers) is corrected.</p>	
Sections of documents affected	
PS 3.3	
PS 3.6	
Correction Wording:	

PS 3.3: Add new section for Macros and Person Identification Macro:

10 MISCELLANEOUS MACROS

10.1 PERSON IDENTIFICATION MACRO

This Macro may be invoked to specify a coded representation of a person such as a healthcare worker, and the organization to which they are responsible.

- Notes:
1. This macro is typically invoked within a Sequence Item used to identify an individual such as a physician or a device operator.
 2. The free-text name of the individual is not included in this Macro since there are already widely used specific Attributes to hold such values.
 3. No Baseline, Defined or Enumerated Context Groups are defined nor is any particular coding scheme specified. In practice, workers are usually identified by using a locally or nationally specific coding scheme.
 4. The organization is specified by either a coded sequence or a free text name but not both.

**Table 10-1
Person Identification Macro Attributes Description**

Attribute Name	Tag	Type	Attribute Description
Person Identification Code Sequence	(0040,mmm1)	1	A coded entry which identifies a person. The Code Meaning attribute , though it will be encoded with a VR of LO, shall 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 components for use with multi-byte character sets are permitted. Only a single Item shall be permitted in this Sequence.
<i>>Include 'Code Sequence Macro' Table 8.8-1</i>		<i>No Baseline Context ID is defined.</i>	
Person's Address	(0040,mmm2)	3	Person's mailing address
Person's Telephone Numbers	(0040,mmm3)	3	Person's telephone number(s)
Institution Name	(0008,0080)	1C	Institution or organization to which the identified individual is responsible or accountable. Shall not be present if Organization Code Sequence (0040,xxx3) is 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. Shall not be present if Organization Name (0040,xxx2) is present. Only a single Item shall be permitted in this Sequence.
>Include 'Code Sequence Macro' Table 8.8-1		No Baseline Context ID is defined.	

PS 3.3: Add Person Identification Macro to various models:

C.3.4 Visit Admission Module

Table C.3-4 defines the Attributes relevant to admitting a patient during a visit.

**Table C.3-4
VISIT ADMISSION MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
Referring Physician's Name	(0008,0090)	Patient's primary referring physician for this visit
Referring Physician's Address	(0008,0092)	Referring physician's address
Referring Physician's Telep Phone Numbers	(0008,0094)	Referring physician's tele phone numbers
Referring Physician Identification Sequence	(0008,zzz1)	Patient's referring physician. Only a single item shall be permitted in this sequence.
>Include 'Person Identification Macro' Table 10-1		
...

C.4.4 Study Scheduling Module

Table C.4-4 defines the Attributes relevant to scheduling a study.

**Table C.4-4
STUDY SCHEDULING MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
...
Requesting Physician	(0032,1032)	Name of the p Physician who requested the study
Requesting Physician Identification Sequence	(0032,yyy1)	Physician who requested the Imaging Service Request.
>Include 'Person Identification Macro' Table 10-1		
...

C.4.6 Study Read Module

Table C.4-6 defines the Attributes relevant to the reading of a study.

**Table C.4-6
STUDY READ MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
Name of Physician (s) Reading Study	(0008,1060)	Name of the p Physician(s) reading the study
<u>Physician(s) Reading Study Identification Sequence</u>	<u>(0008,rrr1)</u>	Physician(s) reading the Study. One or more items shall be included in this sequence, if present.
>Include 'Person Identification Macro' Table 10-1		
...

C.4.9 Study Component Acquisition Module

**Table C.4-9
STUDY COMPONENT ACQUISITION MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
...
Performing Physician's Name	(0008,1050)	Name of the p Physician administering the study
<u>Performing Physician Identification Sequence</u>	<u>(0008,www1)</u>	Physician(s) administering the Series. One or more items shall be included in this sequence.
>Include 'Person Identification Macro' Table 10-1		
...

C.4.10 Scheduled Procedure Step Module

**Table C.4-10
SCHEDULED PROCEDURE STEP MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
Scheduled Procedure Step Sequence	(0040,0100)	One or more Scheduled Procedure Steps for one Requested Procedure.
...
>Scheduled Performing Physician's Name	(0040,0006)	Name of the physician scheduled to administer the Scheduled Procedure Step.
<u>>Scheduled Performing Physician Identification Sequence</u>	<u>(0040,xxx1)</u>	Physician scheduled to administer the Scheduled Procedure Step. One or more items shall be included in this sequence.
>>Include 'Person Identification Macro' Table 10-1		
...

C.4.11 Requested Procedure Module

Table C.4-11
REQUESTED PROCEDURE MODULE ATTRIBUTES

Attribute Name	Tag	Attribute Description
...
Names of Intended Recipients of Results	(0040,1010)	Names of the physicians, who are intended recipients of results.
<u>Intended Recipients of Results Identification Sequence</u>	(0040,ppp1)	Physicians who are intended recipients of results. One or more items shall be included in this sequence.
<i>>>Include 'Person Identification Macro' Table 10-1</i>		

C.4.12 Imaging Service Request Module

Table C.4-12
IMAGING SERVICE REQUEST MODULE ATTRIBUTES

Attribute Name	Tag	Attribute Description
...
Requesting Physician	(0032,1032)	Name of the P physician who requested the Imaging Service Request.
<u>Requesting Physician Identification Sequence</u>	(0032,yyy1)	Physician who requested the Imaging Service Request.
<i>>Include 'Person Identification Macro' Table 10-1</i>		
Referring Physician's Name	(0008,0090)	Name of the Patient's referring physician Patient's primary physician for this Imaging Service Request.
<u>Referring Physician Identification Sequence</u>	(0008,zzz1)	Patient's referring physician. Only a single item shall be permitted in this sequence.
<i>>Include 'Person Identification Macro' Table 10-1</i>		
...

C.4.15 Image Acquisition Results

...

Table C.4-15
IMAGE ACQUISITION RESULTS MODULE ATTRIBUTES

Attribute Name	Tag	Attribute Description
...
Performed Series Sequence	(0040,0340)	Attributes of the Series that comprise this Modality Performed Procedure Step. The Sequence may have zero or more Items.
>Performing Physician's Name	(0008,1050)	Name of the physician(s) administering this Series.
<u>Performing Physician Identification Sequence</u>	(0008,www1)	Physician(s) administering the Series. One or more items shall be included in this sequence.

>Include 'Person Identification Macro' Table 10-1		
>Operator's Name	(0008,1070)	Name(s) of the operator technologist(s) who performed supporting this Series.
Operator Identification Sequence	(0008,ppp1)	Technologist(s) supporting the Series. One or more items shall be included in this sequence.
>Include 'Person Identification Macro' Table 10-1		
...

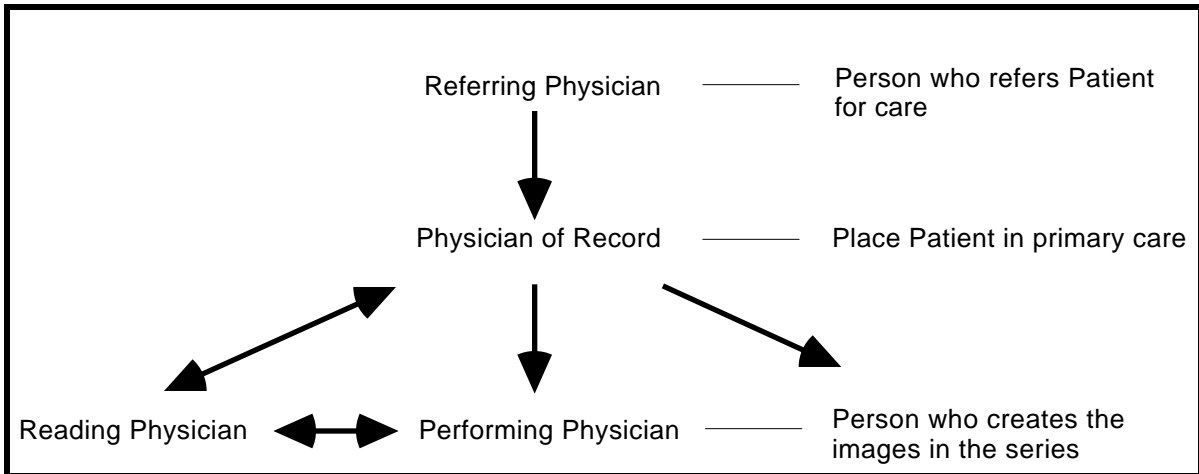
C.7.2.1 General Study Module

...

Table C.7-2
GENERAL STUDY MODULE ATTRIBUTES

Attribute Name	Tag	Type	Attribute Description
...
Referring Physician's Name	(0008,0090)	2	Name of the P patient's referring physician.
Referring Physician Identification Sequence	(0008,zzz1)	3	Patient's referring physician. Only a single item shall be permitted in this sequence.
>Include 'Person Identification Macro' Table 10-1			
...
Physician(s) of Record	(0008,1048)	3	Name(s) of the P physician(s) who are responsible for overall patient care at time of Study (see Section C.7.3.1 for Performing Physician).
Physician(s) of Record Identification Sequence	(0008,qqq1)	3	Physician(s) who are responsible for overall patient care at time of Study. One or more items shall be included in this sequence, if present.
>Include 'Person Identification Macro' Table 10-1			
Name of Physician(s) Reading Study	(0008,1060)	3	Name(s) of the P physician(s) reading the Study.
Physician(s) Reading Study Identification Sequence	(0008,rrr1)	3	Physician(s) reading the Study. One or more items shall be included in this sequence, if present.
>Include 'Person Identification Macro' Table 10-1			
...

Note: The model used for application of attributes related to different functions of Physicians involved in the care is as follows:



There can be an overlap of functions provided by any given physician. In this case, the field entries would convey the same physician name under different roles.

C.7.3.1 General Series Module

...

Table C.7-4
GENERAL SERIES MODULE ATTRIBUTES

Attribute Name	Tag	Type	Attribute Description
...
Performing Physicians' Name	(0008,1050)	3	Name of the physician(s) administering the Series.
<u>Performing Physician Identification Sequence</u>	<u>(0008,www1)</u>	<u>3</u>	<u>Physician(s) administering the Series. One or more items shall be included in this sequence.</u>
<i>>Include 'Person Identification Macro' Table 10-1</i>			
...
Operators' Name	(0008,1070)	3	<u>Name(s) of the Technologist(s) supporting the Series.</u>
<u>Operator Identification Sequence</u>	<u>(0008,ppp1)</u>	<u>3</u>	<u>Technologist(s) supporting the Series. One or more items shall be included in this sequence.</u>
<i>>Include 'Person Identification Macro' Table 10-1</i>			
...

Add the following Data Elements to Part 6 Section 6:

Tag	Name	VR	VM
(0008,0090)	Referring Physician's Name	PN	1
(0008,0092)	Referring Physician's Address	ST	1
(0008,0094)	Referring Physician's Telephone Numbers	SH	1-n
<u>(0008,zzz1)</u>	<u>Referring Physician Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0008,1048)	Physician(s) of Record	PN	1-n
<u>(0008,qqq1)</u>	<u>Physician(s) of Record Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0008,1050)	Performing Physician's Name	PN	1-n
<u>(0008,www1)</u>	<u>Performing Physician Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0008,1060)	Name of Physician(s) Reading Study	PN	1-n
<u>(0008,rrr1)</u>	<u>Physician(s) Reading Study Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0008,1070)	Operators' Name	PN	1-n
<u>(0008,ppp1)</u>	<u>Operator Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0032,1032)	Requesting Physician	PN	1
<u>(0032,yyy1)</u>	<u>Requesting Physician Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0040,0006)	Scheduled Performing Physician's Name	PN	1
<u>(0040,xxx1)</u>	<u>Scheduled Performing Physician Identification Sequence</u>	<u>SQ</u>	<u>1</u>
(0040,1010)	Names of Intended Recipients of Results	PN	1-n
<u>(0040,ppp1)</u>	<u>Intended Recipients of Results Identification Sequence</u>	<u>SQ</u>	<u>1</u>
<u>(0040,mmm1)</u>	<u>Person Identification Code Sequence</u>	<u>SQ</u>	<u>1</u>
<u>(0040,mmm2)</u>	<u>Person's Address</u>	<u>ST</u>	<u>1</u>
<u>(0040,mmm3)</u>	<u>Person's Telephone Numbers</u>	<u>SH</u>	<u>1-n</u>