

DICOM Correction Item

Correction Number		CP-655
Log Summary: Create Content Identification Macro		
Type of Modification	Name of Standard	
Editorial	PS 3.3 2006	
Rationale for Correction		
Factoring out common attributes for new IODs with human assisted content creation.		
Sections of documents affected		
PS 3.3 Sections 10, C.11.10, C.20.2, C.21.2, C.25.2, F.5.23, F.5.29, F.5.30, F.5.34		
Correction Wording:		

Add new Section 10.9 with Content Identification Macro

10.9 CONTENT IDENTIFICATION MACRO

Table 10-12 describe the attributes for identifying a SOP Instance potentially created by a human user interacting with an application.

**Table 10-12
 CONTENT IDENTIFICATION MACRO**

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	1	A number that identifies this SOP Instance.
Content Label	(0070,0080)	1	A label that is used to identify this SOP Instance.
Content Description	(0070,0081)	2	A description of the content of the SOP Instance.
Content Creator's Name	(0070,0084)	2	Name of operator (such as a technologist or physician) creating the content of the SOP Instance.
Content Creator's Identification Sequence	(0070,0086)	3	Identification of the person who created the real world value mapping. Only a single item shall be present in this sequence.
<i>> Include Person Identification Macro Table 10-1</i>			

Modify Presentation States to use Content Identification Macro

**Table C.11.10-1
 PRESENTATION STATE IDENTIFICATION MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	1	A number that identifies this presentation (SOP Instance).

			Note: In previous versions of the Standard this Attribute was referred to as Image Number.
Content Label	(0070,0080)	1	A label that is used to identify this presentation. Note: This value may be used by an application as a Defined Term in order to imply some grouping of different presentation states, i.e. it may have the same value for different presentation state instances that share some common concept.
Content Description	(0070,0081)	2	A description of this presentation.
Presentation Creation Date	(0070,0082)	1	Date on which this presentation was created. Note: This date may be different from the date that the DICOM SOP Instance was created, since the presentation state information contained may have been recorded earlier.
Presentation Creation Time	(0070,0083)	1	Time at which this presentation was created. Note: This time may be different from the time that the DICOM SOP Instance was created, since the presentation state information contained may have been recorded earlier.
Content Creator's Name	(0070,0084)	2	Name of operator saving the presentation state (such as a technologist or physician).
<u>Include Content Identification Macro Table 10-12</u>			<u>Note: The Content Label value may be used by an application as a Defined Term in order to imply some grouping of different presentation states, i.e. it may have the same value for different presentation state instances that share some common concept.</u>

Modify Spatial Registration to use Content Identification Macro

Table C.20.2-1
SPATIAL REGISTRATION MODULE ATTRIBUTES

Attribute Name	Tag	Type	Attribute Description
Content Date	(0008,0023)	1	The date the content creation started.
Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this registration.
Content Creator's Name	(0070,0084)	2	Name of operator performing the registration (such as a technologist or physician).
<i><u>Include Content Identification Macro Table 10-12</u></i>			
Registration Sequence	(0070,0308)	1	A sequence of one or more registration items. Each item defines a spatial registration to the referenced images in that item. All referenced images are in the same spatial frame of reference or atlas.
...			

Modify Spatial Fiducials to use Content Identification Macro

Table C.21.2-1
SPATIAL FIDUCIALS MODULE ATTRIBUTES

Attribute Name	Tag	Type	Attribute Description
Content Date	(0008,0023)	1	The date the content creation started.
Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this registration.
Content Creator's Name	(0070,0084)	2	Name of operator performing the registration (such as a technologist or physician).
<i><u>Include Content Identification Macro Table 10-12</u></i>			
Fiducial Set Sequence	(0070,031C)	1	A sequence of one or more items, each of which is a fiducial set.
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Modify Real World Value Mapping to use Content Identification Macro

**Table C.25.2-1
REAL WORLD VALUE MAPPING MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Content Date	(0008,0023)	1	The date the content creation started.
Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this real world value mapping.
Content Creator's Name	(0070,0084)	2	Name of the person who created the real world value mapping.
Content Creator's Identification Sequence	(0070,0086)	3	Identification of the person who created the real world value mapping. Only a single item shall be present in this sequence.
> Include Person Identification Macro Table 10-1			
Include Content Identification Macro Table 10-12			
Referenced Image Real World Value Mapping Sequence	(0040,9094)	1	A sequence of one or more real world value mapping items. Each item defines a single mapping and a list of images to which the mapping applies.
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Modify DICOMDIR Presentation State to use Content Identification Macro

**Table F.5-23
PRESENTATION KEYS**

Key	Tag	Type	Attribute Description
Specific Character Set	(0008,0005)	1C	Required if an extended or replacement character set is used in one of the keys.
Instance Number	(0020,0013)	1	A number that identifies this presentation state.
Content Label	(0070,0080)	1	A label that is used to identify this presentation.
Content Description	(0070,0081)	2	A description of this presentation.
Presentation Creation Date	(0070,0082)	1	Date on which this presentation was created. Note: This date may be different from the date that the DICOM SOP Instance was created, since the presentation state information contained may have been recorded earlier.
Presentation Creation Time	(0070,0083)	1	Time at which this presentation was created. Note: This time may be different from the time that the

			DICOM SOP Instance was created, since the presentation state information contained may have been recorded earlier.
Content Creator's Name	(0070,0084)	2	Name of operator saving the presentation state (such as a technologist or physician).
<i>Include Content Identification Macro Table 10-12</i>			
Referenced Series Sequence	(0008,1115)	1	Sequence of Repeating Items where each Item includes the Attributes of one or more Series.
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Modify DICOMDIR Spatial Registration to use Content Identification Macro

**Table F.5-29
REGISTRATION KEYS**

Key	Tag	Type	Attribute Description
Specific Character Set	(0008,0005)	1C	Required if an extended or replacement character set is used in one of the keys.
Content Date	(0008,0023)	1	The date the content creation started.
Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this registration.
Content Creator's Name	(0070,0084)	2	Name of operator performing the registration (such as a technologist or physician).
<i>Include Content Identification Macro Table 10-12</i>			
Any other Attribute of the Spatial Registration IE Modules		3	

Modify DICOMDIR Spatial Fiducials to use Content Identification Macro

**Table F.5-30
FIDUCIAL KEYS**

Key	Tag	Type	Attribute Description
Specific Character Set	(0008,0005)	1C	Required if an extended or replacement character set is used in one of the keys.
Content Date	(0008,0023)	1	The date the content creation started.

Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this registration.
Content Creator's Name	(0070,0084)	2	Name of operator performing the registration (such as a technologist or physician).
<i>Include Content Identification Macro Table 10-12</i>			
Any other Attribute of the Spatial Fiducials IE Modules		3	

Modify DICOMDIR Real World Value Mapping to use Content Identification Macro

**Table F.5-34
 REAL WORLD VALUE MAPPING KEYS**

Key	Tag	Type	Attribute Description
Specific Character Set	(0008,0005)	1C	Required if an extended or replacement character set is used in one of the keys.
Content Date	(0008,0023)	1	The date the content creation started.
Content Time	(0008,0033)	1	The time the content creation started.
Instance Number	(0020,0013)	1	A number that identifies this instance
Content Label	(0070,0080)	1	A label that is used to identify this registration.
Content Description	(0070,0081)	2	A description of this registration.
Content Creator's Name	(0070,0084)	2	Name of operator performing the registration (such as a technologist or physician).
<i>Include Content Identification Macro Table 10-12</i>			
Any other Attribute of the Real World Value Mapping IE Modules		3	