

## DICOM Correction Item

Correction Number	CP-646
Log Summary: Group of Frames for Display Key Object Selection	
Type of Modification	Name of Standard
Correction	PS 3.16 2006
<p>Rationale for Correction</p> <p>As acquisition devices become more sophisticated in terms of the number and pattern of acquisition of images and frames, it becomes necessary to correctly group and order images and frames as sets that do not necessarily correspond to the multi-frame image and/or images in series organizations that were created by the modality. Such grouping may be rule-based or involve human intervention, but regardless, it may be necessary to keep a persistent copy of the selected grouping, without re-saving the entire image data as new series or studies.</p> <p>Some example scenarios include:</p> <ul style="list-style-type: none"><li>• Specifying the subset of single frame images from a dynamic contrast enhanced CT chest, abdomen and pelvis that represent a single phase of timing and contrast injection and reconstruction kernel for use as a volume for 3D rendering</li><li>• Re-partitioning one image per series CR skeletal radiographs so as to select all the hand images with multiple views in one set, and all the foot images in another set</li><li>• Re-partitioning multiple fluoroscopy series containing spot images and fluoroscopy runs such that the spot images are separated and grouped naturally as per the user's needs as opposed to how they happened to be acquired</li></ul> <p>The Key Object Selection document is ideal for this purpose, allowing as it does a coded reason, and textual label, and reference to multiple sets of images and frames. In this usage, the textual label could be considered as analogous to the Series Description attribute, though there is no intent in this proposal to formalize any type of relationship to the composite information model in DICOM. Nor is there any intent to constrain how the images or frames might be grouped or duplicated (referenced more than once) in multiple KOS instances, though multiple KOS instances might be considered analogous to multiple series.</p> <p>There is no intent to specify any order or sequence of display or layout, only the grouping together of images and frames into a set, hence this does not address the need or duplicate the work proposed for Structured Display as envisaged by WG 11. A display device can take advantage of the explicitly defined groups in KOS with the specified Document Title, and then order them and lay them out as appropriate based on the referenced images' own attributes.</p> <p>The proposed Document Title code is named "Group of Frames for Display", but is not intended to preclude the re-use of the grouping for other purposes (e.g., volume rendering), nor to restrict the use to multi-frame images.</p> <p>KOS was chosen since it is intended for this type of reference; Presentation States were considered but rejected since there is no implied presentation semantics involved, specifically no windowing, displayed area selection, or annotation; this is despite the use of GSPS in the IHE Presentation of Grouped Procedures (PGP) profile which is in some respects a specific instance of the more general use addressed by this profile.</p>	
Sections of documents affected	
PS 3.16	
Correction Wording:	

**CID 7010      Key Object Selection Document Title**

**Context ID 7010  
 Key Object Selection Document Title**

**Type: Extensible Version: ~~20040920~~yyyymmdd**

<b>Coding Scheme Designator (0008,0102)</b>	<b>Code Value (0008,0100)</b>	<b>Code Meaning (0008,0104)</b>
DCM	113000	Of Interest
DCM	113001	Rejected for Quality Reasons
DCM	113002	For Referring Provider
DCM	113003	For Surgery
DCM	113004	For Teaching
DCM	113005	For Conference
DCM	113006	For Therapy
DCM	113007	For Patient
DCM	113008	For Peer Review
DCM	113009	For Research
DCM	113010	Quality Issue
DCM	113013	Best In Set
DCM	113018	For Printing
DCM	113020	For Report Attachment
DCM	113030	Manifest
DCM	113031	Signed Manifest
DCM	113032	Complete Study Content
DCM	113033	Signed Complete Study Content
DCM	113034	Complete Acquisition Content
DCM	113035	Signed Complete Acquisition Content
<b><u>DCM</u></b>	<b><u>nnnnnn</u></b>	<b><u>Group of Frames for Display</u></b>

113000	Of Interest	Of Interest	
113001	Rejected for Quality Reasons	Rejected for Quality Reasons	
113002	For Referring Provider	For Referring Provider	
113003	For Surgery	For Surgery	
113004	For Teaching	For Teaching	
113005	For Conference	For Conference	
113006	For Therapy	For Therapy	
113007	For Patient	For Patient	
113008	For Peer Review	For Peer Review	

113009	For Research	For Research	
113010	Quality Issue	Quality Issue	
113011	Document Title Modifier	Document Title Modifier	
113012	Key Object Description	Key Object Description	
113013	Best In Set		
113014	Study		
113015	Series		
113016	Performed Procedure Step		
113017	Stage-View		
113018	For Printing	For Printing	
113020	For Report Attachment	Selection of information objects for attachment to the clinical report of the Current Requested Procedure	
113026	Double exposure	Double exposure	
113030	Manifest	A list of objects that have been exported out of one organizational domain into another domain. Typically, the first domain has no direct control over what the second domain will do with the objects.	
113031	Signed Manifest	A signed list of objects that have been exported out of one organizational domain into another domain, referenced securely with either Digital Signatures or MACs. Typically, the first domain has no direct control over what the second domain will do with the objects.	
113032	Complete Study Content	The list of objects that constitute a study at the time that the list was created.	
113033	Signed Complete Study Content	The signed list of objects that constitute a study at the time that the list was created, referenced securely with either Digital Signatures or MACs.	
113034	Complete Acquisition Content	The list of objects that were generated in a single procedure step.	
113035	Signed Complete Acquisition Content	The signed list of objects that were generated in a single procedure step, referenced securely with either Digital Signatures or MACs.	

<b><u>nnnnn</u></b>	<b><u>Group of Frames for Display</u></b>	<b><u>A list of frames or single-frame or entire multi-frame instances that together constitute a set for some purpose, such as might be displayed together in the same viewport, as distinct from another set that might be displayed in a separate viewport.</u></b>	
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