

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2016/06/01
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Submission Date	2015/10/22

Correction Number	CP-1556
Log Summary: Add Scheduled Workitem Code Sets for Reading	
Name of Standard PS3.3, PS3.6, PS3.16 2016b	
<p>Rationale for Correction:</p> <p>IHE has applied UPS to reading worklists. Queries and filtered subscriptions work best if a couple of elements of the task are post-coordinated (e.g. Find all CT reads, or find all neuro reads, or find all reads that are PET and Cardiac.)</p> <p>IHE RRR-WF profiles the use of the main workitem code to specify a read task. It would be useful to do a first cut culling of available workitems in the C-FIND. If needed, the procedure code of the study to be reported can be included as a return key for more fine grain selection on the client.</p> <p>A large list of pre-coordinated codes would require many subscriptions since we don't have a good C-FIND syntax for ORs on matches against a single attribute.</p> <p>Also codes are needed to specify the type of report requested from the reading task.</p> <p>Rather than add a Workitem Modifier attribute, this CP adds code sets that can be included in the Scheduled Workitem Code or in the Scheduled Processing Parameters Sequence via a new TID to identify the read Modality and the Specialty. As long as deployments use one set in the Scheduled Workitem Code and include the other in the Scheduled Processing Parameters Sequence (which is profiled in IHE), it will be possible to get two layers of AND. Using a generic Workitem code still allows two layers of AND. It will be important for SCP implementations to support C-FIND filtering on content sequences (such as the Parameters Sequence) in addition to filtering on code sequences.</p> <p>This CP adds the corresponding codes to DICOM.</p> <p>The following links were consulted for report type codes but none with appropriate semantics were found: https://www.hl7.org/fhir/valueset-diagnostic-report-status.html https://phinvas.cdc.gov/vads/ViewCodeSystem.action?id=2.16.840.1.113883.12.85</p>	
Correction Wording:	

Modify Table C.30.2-1 to remove the CID specifications

Table C.30.2-1. Unified Procedure Step Scheduled Procedure Information Module Attributes

Attribute Name	Tag	Attribute Description
...		
Scheduled Workitem Code Sequence	(0040,4018)	Coded description of the Procedure Step. Only a single Item shall be included in this Sequence.

Attribute Name	Tag	Attribute Description
>Include Table 8.8-1 "Code Sequence Macro Attributes"		Baseline CID is CID 9231 "Workitem Definition" . Note This CID has generic workitems. An implementation may choose to define more specific, detailed workitems.
Scheduled Processing Parameters Sequence	(0074,1210)	Processing parameters to be used by the performing system when carrying out the Procedure Step. Zero or more Items shall be included in this Sequence.
>Include Table 10-2 "Content Item Macro Attributes Description"		No Baseline CIDs are defined for Concept Name Code Sequence or Concept Code Sequence.
>Content Item Modifier Sequence	(0040,0441)	Sequence that specifies modifiers for a Protocol Context Content Item. One or more Items are permitted in this Sequence.
>>Include Table 10-2 "Content Item Macro Attributes Description"		No Baseline CIDs are defined for Concept Name Code Sequence or Concept Code Sequence.
...		

In PS3.16 Add TID to Annex C Acquisition Context Module and Protocol Context Templates to link the concepts and relevant codesets for Radiology Reading Task Parameters, and update the name of the Annex.

C Acquisition Context Module and, Protocol and Workflow Context Templates (Normative)

This Annex specifies the content of Templates for Acquisition and, Protocol and Workflow Context required by DICOM IODs.

Templates for Acquisition and, Protocol and Workflow Context

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TID 8200 Radiology Reading Task Parameters

This Template describes parameters for a radiology reading task.

Note: Specialty to Read is nested inside Modality to Read in order to facilitate C-FIND matching against both Modality and Specialty.

Type: Extensible

Order: Non-Significant

Table TID 8200. Radiology Reading Task Parameters

	NL	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		CODE	EV (128002,DCM, "Modality to Read")	1	U		DCID 29 "Acquisition Modality"
2	>	CODE	EV (128003,DCM, "Reader Specialty")	1	U		DCID 7449 "Reader Specialty"
3		CODE	EV (128004,DCM,	1-n	U		DCID 9233 "Requested Report Types"

		"Report Requested")				
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Update CID 9231:

CID 9231 Workitem Definition

Type: Extensible

Version: 2002090420160601

Table CID 9231. Workitem Definition

Coding Scheme Designator	Code Value	Code Meaning
DCM	110001	Image Processing
DCM	110002	Quality Control
DCM	110003	Computer Aided Diagnosis
DCM	110004	Computer Aided Detection
DCM	110005	Interpretation
DCM	110006	Transcription
DCM	110007	Report Verification
<u>DCM</u>	<u>128001</u>	<u>Add Addendum to Report</u>
DCM	110008	Print
DCM	110009	No subsequent Workitems
DCM	110013	Media Import

Add CID with codes for Reader Specialty:

CID 7449 Reader Specialty

This content group describes specialties that may be relevant to a diagnostic imaging reading task.

Type: Extensible

Version: 20160601

Table CID 7449. Reader Specialty

Coding Scheme Designator	Code Value	Code Meaning
DCM	128006	Abdominal Imaging Specialty
DCM	128007	Cardiac Imaging Specialty
DCM	128008	Head and Neck Imaging Specialty
DCM	128009	Musculoskeletal Imaging Specialty
DCM	128010	Neurology Specialty
DCM	128011	Neuroradiology Imaging Specialty
DCM	128012	OB/Gyn Imaging Specialty
DCM	128013	Oncologic Imaging Specialty
DCM	128014	Oncology Specialty
DCM	128015	Thoracic Imaging Specialty
DCM	128016	Pediatric Imaging Specialty
DCM	128017	Vascular Imaging Specialty

Add CID 9233 with codes for use in the Scheduled Processing Parameters Sequence

CID 9233 Requested Report Types

This content group describes types of reports that may be requested as the output of a diagnostic imaging reporting task.

Type: Extensible
Version: 20160601

Table CID 9233. Requested Report Types

Coding Scheme Designator	Code Value	Code Meaning
DCM	121362	Preliminary Report
DCM	128005	Final Report

Add Definitions to PS3.16 Annex D (associated definitions are provided for reference)

Code Value	Code Meaning	Definition	Notes
110005	Interpretation	The work item task is to prepare a report that contains the interpretation of an imaging study work item.	

Code Value	Code Meaning	Definition	Notes
121360	Replaced report	The reference is to a predecessor report that has been replaced by the current report.	
121361	Addended report	The reference is to a predecessor report to which the current report provides an addendum.	
121362	Preliminary report	A report that precedes the final report and may contain only limited information; it may be time sensitive, and it is not expected to contain all the reportable findings.	
121363	Partial report	A report that is not complete.	
128001	Add Addendum to Report	The task is to add an addendum to an existing report.	
128002	Modality to Read	The imaging study to be read involves the specified modality	
128003	Reader Specialty	The specialty of the reader of the imaging study	
128004	Report Requested	The type of report that is being requested.	
128005	Final Report	A final report is a report that is expected to contain all information and all the reportable findings.	
128006	Abdominal Imaging Specialty	A medical specialty concerned with abdominal imaging.	
128007	Cardiac Imaging Specialty	A medical specialty concerned with cardiac imaging.	
128008	Head and Neck Imaging Specialty	A medical specialty concerned with head and neck imaging.	
128009	Musculoskeletal Imaging Specialty	A medical specialty concerned with musculoskeletal imaging.	
128010	Neurology Specialty	A medical specialty concerned with neurology.	
128011	Neuroradiologic Imaging Specialty	A medical specialty concerned with neuroradiologic imaging.	
128012	OB/Gyn Imaging Specialty	A medical specialty concerned with obstetric and gynecologic imaging.	
128013	Oncologic Imaging Specialty	A medical specialty concerned with oncologic imaging.	
128014	Oncology Specialty	A medical specialty concerned with oncology.	
128015	Thoracic Imaging Specialty	A medical specialty concerned with thoracic imaging.	
128016	Pediatric Imaging Specialty	A medical specialty concerned with pediatric imaging.	
128017	Vascular Imaging Specialty	A medical specialty concerned with vascular imaging.	

In PS3.6 Add new Context Group UIDs:

Table A-3. Context Group UID Values

Context UID	Context Identifier	Context Group Name
1.2.840.10008.6.1.1119	CID 7449	Reader Specialty

Context UID	Context Identifier	Context Group Name
<u>1.2.840.10008.6.1.1120</u>	<u>CID 9233</u>	<u>Requested Report Types</u>