

Digital Imaging and Communications in Medicine (DICOM)

Supplement 59: Key Object Selection Document SOP Class

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DICOM Standards Committee

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Foreword

This Supplement to the DICOM Standard introduces the Key Object Selection Document SOP Class for flagging one or more significant images, waveforms, or other composite objects.

This draft Supplement to the DICOM Standard was developed according to DICOM Committee Procedures.

The DICOM standard is structured as a multi-part document using the guidelines established in the following document:

- ISO/IEC Directives, 1989 Part 3 - Drafting and Presentation of International Standards.

This document is a Supplement to the DICOM Standard. It is an extension to PS 3.3, 3.4, 3.6 and 3.16 of the published DICOM Standard which consists of the following parts:

PS 3.1	-	Introduction and Overview
PS 3.2	-	Conformance
PS 3.3	-	Information Object Definitions
PS 3.4	-	Service Class Specifications
PS 3.5	-	Data Structures and Encoding
PS 3.6	-	Data Dictionary
PS 3.7	-	Message Exchange
PS 3.8	-	Network Communication Support for Message Exchange
PS 3.9	-	Point-to-Point Communication Support for Message Exchange
PS 3.10	-	Media Storage and File Format
PS 3.11	-	Media Storage Application Profiles
PS 3.12	-	Media Formats and Physical Media
PS 3.13	-	Print Management - Point-to-point Communication Support
PS 3.14	-	Grayscale Standard Display Function
PS 3.15	-	Security Profiles
PS 3.16	-	DICOM Content Mapping Resource (being simultaneously balloted in Supplement 53)

These Parts are independent but related documents.

Scope and Field of Application

The Key Object Selection Document SOP Class utilizes the structure and encoding introduced by the Structured Reporting SOP Classes to facilitate “flagging” or “selection” of one or more significant images, waveforms, or other composite objects from one or more studies for a patient.

Suggested uses of the DICOM Key Object Selection Document SOP Class include identification of images or other objects for review, teaching, conferencing, or presentation to the referring physician. It may also be used to identify images that have quality-related defects, are rejected, or otherwise separated from other images in the study.

The IOD is designed to facilitate access to stored Key Object Selection Documents. It introduces a modality identifier of KO, which can be used in a Series-level Query to select Series which contain these documents. It also encodes the purpose of the object selection in the Document Root Content Item (i.e., the document title), which can be used in an Instance-level Query to select documents created for a particular purpose.

The SOP Class has broad applicability to selection of key objects of any type, not just images, but also waveforms, radiation therapy plans, and measurements encoded in structured report documents. This is essential for broad acceptance and implementation of the SOP Class across the several clinical domains served by DICOM.

Since this document proposes changes to existing Parts of DICOM, the reader should have a working understanding of the Standard. This proposed Supplement includes a number of Addenda to existing Parts of DICOM :

- PS 3.3 Information Object Definitions
- PS 3.4 Service Class Specifications
- PS 3.6 Data Dictionary
- PS 3.16 DICOM Content Mapping Resource (being simultaneously balloted in Supplement 53)

Part 3 Addendum

Update PS3.3 Annex A to include Key Object Selection Document IODs and Modules

A.1.4 Overview of the Composite IOD Module Content

**Table A.1-2
COMPOSITE INFORMATION OBJECT MODULES OVERVIEW - NON-IMAGES**

IODs Modules	<u>Key Object Selection</u>
Patient	<u>M</u>
Specimen Identification	<u>C</u>
General Study	<u>M</u>
Patient Study	<u>U</u>
<u>Key Object Document Series</u>	<u>M</u>
General Equipment	<u>M</u>
<u>Key Object Document</u>	<u>M</u>
SR Document Content	<u>M</u>
SOP Common	<u>M</u>

Add the following to PS 3.3 Annex A

A.35.4 Key Object Selection Document Information Object Definition

A.35.4.1 Key Object Selection Document Information Object Description

The Key Object Selection Document IOD is intended for flagging one or more significant images, waveforms, or other composite SOP Instances.

A.35.4.2 Key Object Selection Document IOD Entity-Relationship Model

The E-R Model in Section A.1.2 of this Part applies to the Key Object Selection Document IOD. Table A.35.1-1 specifies the Modules of the Key Object Selection Document IOD.

A.35.4.3 Key Object Selection Document IOD Module Table

Table A.35.4-1 specifies the Modules of the Key Object Selection Document IOD.

**Table A.35.4-1
KEY OBJECT SELECTION DOCUMENT IOD MODULES**

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Specimen Identification	C.7.1.2	C - Required if the Observation Subject is a Specimen

Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
Series	Key Object Document Series	C.17.6.1	M
Equipment	General Equipment	C.7.5.1	M
Document	Key Object Document	C.17.6.2	M
	SR Document Content	C.17.3	M
	SOP Common	C.12.1	M

A.35.4.3.1 Key Object Selection Document IOD Content Constraints

A.35.4.3.1.1 Value Type

Value Type (0040,A040) in the Content Sequence (0040,A730) of the SR Document Content Module is constrained to the following Enumerated Values (see Table C.17.3-1 for Value Type definitions):

TEXT
CODE
UIDREF
PNAME
IMAGE
WAVEFORM
COMPOSITE
CONTAINER

A.35.4.3.1.2 Relationship Constraints

Relationships between Content Items in the content of this IOD shall be conveyed in the by-value mode. See Table C.17.3-2 for Relationship Type definitions.

Note: Relationships by-reference are forbidden. Therefore, Referenced Content Item Identifier (0040,DB73) is not present in any of the Content Items within the SR Document Content Module.

Table A.35.4-2 specifies the relationship constraints of this IOD.

Table A.35.4-2
RELATIONSHIP CONTENT CONSTRAINTS FOR KEY OBJECT SELECTION DOCUMENT IOD

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, IMAGE, WAVEFORM, COMPOSITE
CONTAINER	HAS OBS CONTEXT	TEXT, CODE, UIDREF, PNAME
CONTAINER	HAS CONCEPT MOD	CODE

A.35.4.3.1.3 Template Constraints

The document shall be constructed from TID 2010 Key Object Selection invoked at the root node.

Add the following to PS 3.3 Annex C

C.17.6 Key Object Selection Modules

C.17.6.1 Key Object Document Series Module

Table C.17.6-1 defines the Attributes of the Key Object Document Series.

Note: Series of Key Object Selection Documents are separate from Series of Images or other Composite SOP Instances. Key Object Documents do not reside in a Series of Images or other Composite SOP Instances.

**Table C.17.6-1
KEY OBJECT DOCUMENT SERIES MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	1	Modality type. Enumerated Value: KO = Key Object Selection
Series Instance UID	(0020,000E)	1	Unique identifier of the Series. Note: No specific semantics are specified.
Series Number	(0020,0011)	1	A number that identifies the Series. Note: No specific semantics are specified.
Referenced Study Component Sequence	(0008,1111)	2	Uniquely identifies the Performed Procedure Step SOP Instance for which the Series is created. Only a single Item shall be permitted in this sequence. Notes: See notes on this attribute in Section C.17.1 SR Document Series Module
>Referenced SOP Class UID	(0008,1150)	1C	Uniquely identifies the referenced SOP Class. Required if Referenced Study Component Sequence (0008,1111) is sent.
> Referenced SOP Instance UID	(0008,1155)	1C	Uniquely identifies the referenced SOP Instance. Required if Referenced Study Component Sequence (0008,1111) is sent.

C.17.6.2 Key Object Document Module

Table C.17.6-2 defines the general Attributes of a Key Object Selection Document. These Attributes identify and provide context for the Key Object Selection Document.

**Table C.17.6-2
KEY OBJECT DOCUMENT MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	1	A number that identifies the Document.
Content Date	(0008,0023)	1	The date the document content creation started.
Content Time	(0008,0033)	1	The time the document content creation started.

Referenced Request Sequence	(0040,A370)	1C	Identifies Requested Procedures to which this Document pertains. One or more Items may be included in this sequence. Required if this Document pertains to at least one Requested Procedure.
>Study Instance UID	(0020,000D)	1	Unique identifier for the Study.
>Referenced Study Sequence	(0008,1110)	2	Uniquely identifies the Study SOP Instance. Only a single Item shall be permitted in this sequence.
>>Referenced SOP Class UID	(0008,1150)	1	Uniquely identifies the SOP Class
>>Referenced SOP Instance UID	(0008,1155)	1	Uniquely identifies the SOP Instance.
>Accession Number	(0008,0050)	2	A departmental IS generated number which identifies the order for the Study.
>Placer Order Number/Imaging Service Request	(0040,2016)	2	The order number assigned to the Imaging Service Request by the party placing the order.
>Filler Order Number/Imaging Service Request	(0040,2017)	2	The order number assigned to the Imaging Service Request by the party filling the order.
>Requested Procedure ID	(0040,1001)	2	Identifier of the related Requested Procedure
>Requested Procedure Description	(0032,1060)	2	Institution-generated administrative description or classification of Requested Procedure.
>Requested Procedure Code Sequence	(0032,1064)	2	A sequence that conveys the requested procedure. Zero or one Item may be included in this sequence.
>>Include 'Code Sequence Macro' Table 8.8-1		No Baseline Context ID Number is specified.	
Current Requested Procedure Evidence Sequence	(0040,A375)	1	List of all Composite SOP Instances referenced in the Content Sequence (0040,A730). One or more Items shall be included in this sequence. Note: In the context of the Key Object Selection, the current evidence is considered to be only the set of instances referenced within the Key Object Selection.
>Include 'SOP Instance Reference Macro' Table C.17-3			
Identical Documents Sequence	(0040,A525)	1C	Duplicates of this document, stored with different SOP Instance UIDs. One or more Items may be included in this sequence. Required if this Key Object Selection document references instances in one or more other Studies. See C.17.2.2 and C.17.6.2.1 for further explanation and conditions.
>Include 'SOP Instance Reference Macro' Table C.17-3			

C.17.6.2.1 Identical Documents

If the Current Requested Procedure Evidence Sequence (0040,A375) references SOP Instances both in the current study and in one or more other studies, this document shall be duplicated into each of those other studies, and the duplicates shall be referenced in the Identical Documents Sequence (0040,A525).

Note: Thus a Key Object Selection Document that references images in the current study as well as in a prior or comparison study, would be duplicated into the other study. This allows an application displaying that other study to easily access notes relevant to that study's SOP Instances.

Update PS 3.3 Annex F

**Table F.3-3
DIRECTORY INFORMATION MODULE**

...																														
>Directory Record Type	(0004,1430)	1C	<p>Defines a specialized type of Directory Record by reference to its position in the Media Storage Directory Information Model (see Section F.4).</p> <p>Required if the Directory Record Sequence (0004,1220) is not zero length.</p> <p>Enumerated Values (see Section F.5):</p> <table border="0"> <tr> <td>PATIENT</td> <td>STUDY</td> <td>SERIES</td> </tr> <tr> <td>IMAGE</td> <td>OVERLAY</td> <td>MODALITY LUT</td> </tr> <tr> <td>VOI LUT</td> <td>CURVE</td> <td>TOPIC</td> </tr> <tr> <td>VISIT</td> <td>RESULTS</td> <td>INTERPRETATION</td> </tr> <tr> <td>STUDY COMPONENT</td> <td></td> <td>STORED PRINT</td> </tr> <tr> <td>RT DOSE</td> <td>RT STRUCTURE SET</td> <td></td> </tr> <tr> <td>RT PLAN</td> <td>RT TREAT RECORD</td> <td></td> </tr> <tr> <td>PRESENTATION</td> <td></td> <td>WAVEFORM</td> </tr> <tr> <td>SR DOCUMENT</td> <td></td> <td><u>KEY OBJECT DOC</u></td> </tr> </table> <p>PRIVATE = Privately defined record hierarchy position. Type shall be defined by Private Record UID (0004,1432).</p> <p>MRDR = Special Directory Record which allows indirect reference to a File by multiple Directory Records. Instead of directly referencing a File by its Referenced File ID (0004,1500), a Directory Record of any of the Types define above (except MRDR) may reference a Multi-Referenced File Directory Record which in turn will reference the File by its File ID.</p> <p>Note: Enumerated Values PRINT QUEUE, FILM SESSION, FILM BOX, and IMAGE BOX were previously defined in DICOM for this Attribute. They are now retired. See PS3.3-1998.</p>	PATIENT	STUDY	SERIES	IMAGE	OVERLAY	MODALITY LUT	VOI LUT	CURVE	TOPIC	VISIT	RESULTS	INTERPRETATION	STUDY COMPONENT		STORED PRINT	RT DOSE	RT STRUCTURE SET		RT PLAN	RT TREAT RECORD		PRESENTATION		WAVEFORM	SR DOCUMENT		<u>KEY OBJECT DOC</u>
PATIENT	STUDY	SERIES																												
IMAGE	OVERLAY	MODALITY LUT																												
VOI LUT	CURVE	TOPIC																												
VISIT	RESULTS	INTERPRETATION																												
STUDY COMPONENT		STORED PRINT																												
RT DOSE	RT STRUCTURE SET																													
RT PLAN	RT TREAT RECORD																													
PRESENTATION		WAVEFORM																												
SR DOCUMENT		<u>KEY OBJECT DOC</u>																												
...																														

F.4 BASIC DIRECTORY IOD INFORMATION MODEL

**Table F.4-1
RELATIONSHIP BETWEEN DIRECTORY RECORDS**

Directory Record Type	Section	Directory Record Types which may be included in the next lower-level directory Entity
(Root Directory Entity)	—	PATIENT, TOPIC, PRIVATE
PATIENT	F.5.1	STUDY, PRIVATE
STUDY	F.5.2	SERIES, VISIT, RESULTS, STUDY COMPONENT PRIVATE
SERIES	F.5.3	IMAGE, OVERLAY, MODALITY LUT, VOI LUT, CURVE, STORED PRINT, RT DOSE, RT STRUCTURE SET, RT PLAN, RT TREAT RECORD, PRESENTATION,

		WAVEFORM, SR DOCUMENT, KEY OBJECT DOC , PRIVATE
IMAGE	F.5.4	PRIVATE
OVERLAY	F.5.5	PRIVATE
MODALITY LUT	F.5.6	PRIVATE
VOI LUT	F.5.7	PRIVATE
CURVE	F.5.8	PRIVATE
STORED PRINT	F.5.18	PRIVATE
RT DOSE	F.5.19	PRIVATE
RT STRUCTURE SET	F.5.20	PRIVATE
RT PLAN	F.5.21	PRIVATE
RT TREAT RECORD	F.5.22	PRIVATE
PRESENTATION	F.5.23	PRIVATE
WAVEFORM	F.5.24	PRIVATE
SR DOCUMENT	F.5.25	PRIVATE
KEY OBJECT DOC	F.5.26	PRIVATE
TOPIC	F.5.9	STUDY, SERIES, IMAGE, OVERLAY, MODALITY LUT, VOI LUT, CURVE, STORED PRINT, RT DOSE, RT STRUCTURE SET, RT PLAN, RT TREAT RECORD, PRESENTATION, WAVEFORM, SR DOCUMENT, KEY OBJECT DOC , PRIVATE
VISIT	F.5.10	PRIVATE
RESULTS	F.5.11	INTERPRETATION, PRIVATE
INTERPRETATION	F.5.12	PRIVATE
STUDY COMPONENT	F.5.13	PRIVATE
PRIVATE	F.6.1	PRIVATE, (any of the above as privately defined)
MRDR	F.6.2	(Not applicable)

F.5.26 Key Object Document Directory Record Definition

The Directory Record is based on the specification of Section F.3. It is identified by a Directory Record Type of Value "KEY OBJECT DOC". Table F.5-25 lists the set of keys with their associated Types for such a Directory Record Type. The description of these keys may be found in the Modules related to the Document IE of the Key Object Selection IOD. This Directory Record shall be used to reference a Key Object Selection Document. This type of Directory Record may reference a Lower-Level Directory Entity which includes one or more Directory Records as defined in Table F.4-1.

Table F.5-26
KEY OBJECT DOCUMENT KEYS

Key	Tag	Type	Type
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	
Content Date	(0008,0023)	1	
Content Time	(0008,0033)	1	
Concept Name Code Sequence	(0040,A043)	1	Code describing the concept represented by the root Content Item (Document Title). This sequence shall contain exactly one Item.
Content Sequence	(0040,A730)	1C	Contains the Target Content Items that modify the Concept Name Code Sequence of the root Content Item (Document Title). Required if the root Content Item is the Source Content Item of HAS CONCEPT MOD relationships.
Any Attribute of the Document IE Modules		3	

Note: Because (0004,1511) Referenced SOP Instance UID in File may be used as a "pseudo" Directory Record Key (See Table F.3-3), it is not duplicated in this list of keys.

Part 4 Addendum

Add Key Object Selection Document SOP Class to PS3.4 Annex B

B.5 STANDARD SOP CLASSES

Table B.5-1
STANDARD SOP CLASSES

SOP Class Name	SOP Class UID	IOD (See PS 3.3)
Key Object Selection	1.2.840.10008.5.1.4.1.1.88.59	Key Object Selection Document

B.5.1.5 Structured Reporting Storage SOP Classes

The requirements of See Annex O apply to the following SOP Classes:

- **Basic Text SR**
- **Enhanced SR**
- **Comprehensive SR**

Annex O requirements do not apply to the Key Object Selection Document SOP Class.

Add Key Object Selection Document Media Storage SOP Class to PS3.4 Annex I

I.4 MEDIA STANDARD STORAGE SOP CLASSES

Table I.4-1
Media Storage Standard SOP Classes

SOP Class Name	SOP Class UID	IOD (See PS 3.3)
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Key Object Selection Document

I.4.1.2 Structured Reporting Storage SOP Classes

The requirements of See Annex O apply to the following SOP Classes:

- **Basic Text SR**
- **Enhanced SR**
- **Comprehensive SR**

Annex O requirements do not apply to the Key Object Selection Document SOP Class.

Part 6 Addendum

Add the following UID to PS3.6 Annex A:

ANNEX A (NORMATIVE): REGISTRY OF DICOM UNIQUE IDENTIFIERS (UID)

UID Value	UID NAME	UID TYPE	Part
1.2.840.10008.5.1.4.1.1.88.59	Key Object Selection Document	SOP Class	3.4

Part 16 Addendum

Add the following to PS3.16 Annex A (as adopted in Supplement 53):

TID 2010 KEY OBJECT SELECTION

The Key Object Selection template is intended for flagging one or more significant images, waveforms, or other composite SOP Instances. Key Object Selection contains:

- coded document title stating the reason for significance of the referenced objects in the Key Object Selection,
- optional free form text comment in an explicitly identified language, and
- optional identification of the observer (device or person) which created the Key Object Selection.

Notes: 1. For instance, when this template is used to identify images rejected for quality reasons, the device or person performing the quality assessment is identified in observation context items (invoked through TID 1002). The reason for rejection can be included both as a code used as a concept modifier for the document title, and as text description.

2. The order of object references may be significant, e.g., when the title concept is "For Conference".

The Template can only be instantiated at the root node and cannot be included in other templates. The Template is not extensible; that is, no other content items may be added to this template, or the templates that are included, recursively.

TID 2010 KEY OBJECT SELECTION

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DCID(7010) Key Object Selection Document Titles	1	M		Root node
2	>	HAS CONCEPT MOD	CODE	EV (113011, DCM, "Document Title Modifier")	1-n	U		
3	>	HAS CONCEPT MOD	CODE	EV (113011, DCM, "Document Title Modifier")	1	UC	IF Row 1 Concept Name = (113001, DCM, "Rejected for Quality Reasons") or (113010, DCM, "Quality Issue")	DCID (7011)
4	>	HAS CONCEPT MOD	INCLUDE	ETID(1204) Language of Content Item and Descendants	1	U		
5	>	HAS OBS CONTEXT	INCLUDE	ETID(1002) Observer Context	1	U		
6	>	CONTAINS	TEXT	EV(113012, DCM, "Key Object Description")	1	U		
7	>	CONTAINS	IMAGE	Purpose of Reference shall not be present	1-n	MC	At least one of Rows 7, 8, and 9 shall be present	
8	>	CONTAINS	WAVEFORM	Purpose of Reference shall not be present	1-n	MC	At least one of Rows 7, 8, and 9 shall be present	
9	>	CONTAINS	COMPOSITE	Purpose of Reference shall not be present	1-n	MC	At least one of Rows 7, 8, and 9 shall be present	Shall not reference another Key Object Selection Document

Add the following to PS3.16 Annex B (as adopted in Supplement 53):

CONTEXT ID 7010 – KEY OBJECT SELECTION DOCUMENT TITLE

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
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

CONTEXT ID 7011 – REJECTED FOR QUALITY REASONS

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	111207	Image artifact(s)
DCM	111208	Grid artifact(s)
DCM	111209	Positioning
DCM	111210	Motion blur
DCM	111211	Under exposed
DCM	111212	Over exposed
DCM	111213	No image
DCM	111214	Detector artifact(s)
DCM	111215	Artifact(s) other than grid or detector artifact
DCM	111216	Mechanical failure
DCM	111217	Electrical failure
DCM	111218	Software failure
DCM	111219	Inappropriate image processing
DCM	111220	Other failure
DCM	111221	Unknown failure
DCM	113026	Double exposure

Add the following to PS3.16 Annex D (as adopted in Supplement 53):

DICOM CONTROLLED TERMINOLOGY CODES

Code Value	Code Meaning	Definition
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
113026	Double exposure	Double exposure

Add the following to PS3.16 Annex E (as adopted in Supplement 53):

DICOM CONTROLLED TERMINOLOGY CODES - FRENCH LANGUAGE TRANSLATION

Code Value	Code Meaning English Language	Code Meaning French Language
113000	Of Interest	Interessant
113001	Rejected for Quality Reasons	Rejetées pour des motifs de qualité
113002	For Referring Provider	Pour le référent
113003	For Surgery	Pour la chirurgie
113004	For Teaching	Pour l'enseignement
113005	For Conference	Pour une conférence
113006	For Therapy	Pour la thérapeutique (see note 1)
113007	For Patient	Pour le patient
113008	For Peer Review	Pour relecture par un pair
113009	For Research	Pour la recherche
113010	Quality Issue	Problème de qualité
113011	Document Title Modifier	Modificateur du titre du document
113012	Key Object Description	Description de l'objet clé

Note: 1. Therapy could be translated as « thérapeutique » as well as « traitement ». There is an issue with the word « traitement » because it is the same word used for image processing. To avoid any ambiguity we have chosen the word « thérapeutique » which is less used in common language.