

DICOM Change Proposal

STATUS	Assigned
Date of Last Update	2025/11/05
Person Assigned	David Clunie, dclunie@dclunie.com
Submitter Name	Jeroen Medema, jeroen.medema@philips.com Wim Corbijn, wim.corbijn.van.willenswaard@philips.com
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Change Number	CP-
Log Summary: Correct IE Level of Patient Attributes in Required Matching Attributes in Studies Search	
Name of Standard	
PS3.18	
Rationale for Change: Section 10.6.1.2.1 Attribute/Value Pair Requirements claims that “The user may include the following Attributes in the request: • Patient IE Attributes (see Section 10.6.1.2.3) …” while the tables in Section 10.6.1.2.3 do not list this level. Clarify that the model is the Study Root Query/Retrieve Information Model, and that Attributes of Patients are considered to be Attributes of Studies.	
Change Wording: See below.	

Update PS3.18, Section 10:

5 10 Studies Service and Resources

10.1 Overview

The Studies Resource enables a user agent to store, retrieve, update, and search an origin server for DICOM Studies, Series, and Instances, along with their /metadata, /rendered, and /thumbnail variants; as well as Frames and Bulkdata.

10 The Retrieve transaction of this Service is also known as WADO-RS. The Store transaction of this Service is also known as STOW-RS. The Search transaction of this Service is also known as QIDO-RS. See Section 10.3.

10.1.1 Resource Descriptions

The Studies Service manages a collection of DICOM Study resources. Each Study is organized in a hierarchy of sub-resources that correspond to the DICOM Information Model. S (see Section 7 “DICOM Model of the Real World” in PS3.3) and the Study Root Query/Retrieve Information Model (see Section C.3.2 in PS3.4).

15 Note. In the Study Root Query/Retrieve Information Model, the top level is the Study level, and Attributes of Patients are considered to be Attributes of Studies.

There are three top level resources:

/studies	references all Studies managed by the service.
/series	references all Series managed by the service.
/instances	references all Instances managed by the service.

20 ***Update PS3.18, Section 10.6.1.2.1:***

10.6.1.2.1 Attribute/Value Pair Requirements

DICOM Attribute/Value pairs included as Query Parameters in the request shall satisfy the requirements in Section 8.3.4.1.

The user agent may include the following Attributes in the request:

25 • Patient IE Attributes, which are considered to be Attributes of Studies (see Section 10.6.1.2.3)

• Study IE Attributes (only allowed if the resource is All Studies, All Series, All Instances)

• Series IE Attributes (only allowed if the resource is Study's Series, All Series, Study's Instances, or All Instances)

• Composite Instance IE Attributes (only allowed if the resource is Study's Instances, Study Series' Instances, or All Instances)

30 • Additional Query/Retrieve Attributes (see Section C.3.4 in PS3.4)

• Private Data Element Tags and their corresponding Private Creator Element Tags

• Timezone Offset From UTC (0008,0201)

The following are examples of Search URIs with valid Attribute/value pairs:

/studies?PatientID=11235813

35 /studies?PatientID=11235813&StudyDate=20130509

/studies?00100010=SMITH*&00101002.00100020=11235813&limit=25

/studies?00100010=SMITH*&OtherPatientIDsSequence.00100020=11235813

/studies?PatientID=11235813&includefield=00081048,00081049,00081060

40 /studies?PatientID=11235813&includefield=00081048&includefield=00081049&includefield=00081060

/studies?PatientID=11235813&StudyDate=20130509-20130510

/studies?StudyInstanceUID=1.2.392.200036.9116.2.2.2162893313.1029997326.94587,1.2.392.200036.9116.2.2.2162893313.1029997326.94583

/studies?00230010=AcmeCompany&includefield=00231002&includefield=00231003

45 /studies?00230010=AcmeCompany&00231001=001239&includefield=00231002&includefield=00231003

Update PS3.18, Section 10.6.1.2.3:

10.6.1.2.3 Required Matching Attributes

50 The origin server shall support the IE Levels specified in Table 10.6.1-4.

Note. The top IE Level is the Study level, and Attributes of Patients are considered to be Attributes of Studies.

Table 10.6.1-4. Required IE Levels by Resource

Resource	IE Level		
	Study	Series	Instance
All Studies	X		
Study's Series		X	
Study's Instances		X	X
All Series	X	X	
Study Series' Instances			X
All Instances	X	X	X

The origin server shall support the matching Attributes specified in Table 10.6.1-5 for each supported IE Level.

Table 10.6.1-5. Required Matching Attributes

IE Level	Attribute Name	Tag
Study	Study Date	(0008,0020)
	Study Time	(0008,0030)
	Accession Number	(0008,0050)
	Modalities In Study	(0008,0061)
	Referring Physician Name	(0008,0090)
	Patient Name	(0010,0010)
	Patient ID	(0010,0020)
	Study Instance UID	(0020,000D)
	Study ID	(0020,0010)
Series	Modality	(0008,0060)
	Series Instance UID	(0020,000E)
	Series Number	(0020,0011)
	Performed Procedure Step Start Date	(0040,0244)
	Performed Procedure Step Start Time	(0040,0245)
	Request Attributes Sequence	(0040,0275)
	>Scheduled Procedure Step ID	(0040,0009)
	>Requested Procedure ID	(0040,1001)
Instance	SOP Class UID	(0008,0016)
	SOP Instance UID	(0008,0018)
	Instance Number	(0020,0013)

55 Note

While some of the Data Elements in Table 10.6.1-5 are optional in Section C.6.2.1 in PS3.4, the above list is consistent with those required for IHE RAD-14. See [IHE RAD TF-2] Table 4.14-1.

10.6.1.2.4 Optional Repository Query Attributes

60 The origin server may support the matching Repository Query Attributes in Table 10.6.1.2.4-1 (see Section C.6.4.2 in PS3.4).

Table 10.6.1.2.4-1. Required IE Levels by Resource

IE Level	Attribute Name	Tag
Study	Prior Record Key	(0008,041C)
	Maximum Number of Records	(0008,0429)
Series	Prior Record Key	(0008,041C)
	Maximum Number of Records	(0008,0429)
Instance	Prior Record Key	(0008,041C)
	Maximum Number of Records	(0008,0429)