

# DICOM Change Proposal

STATUS	Letter Ballot
Date of Last Update	2026/01/28
Person Assigned	Wim Corbijn
Submitter Name	Jeroen Medema, <a href="mailto:jeroen.medema@philips.com">jeroen.medema@philips.com</a>
Submission Date	2025/04/01

Change Number	CP-2551
Log Summary:	Add Protocol Approvals to NPI Service
Name of Standard	PS3.18
Rationale for Change:	Protocol Approvals are not in the Non-Patient Instance Service and Resources, while these also should be manageable with DICOMweb. One could argue that these have been added implicitly, as their IOD is also contained in A.82 "Procedure Protocol IODs" in PS3.3, but that conflicts with their separate Q/R SOP Classes defined in Annex II of PS3.3. Furthermore, a protocol approval seems not to have the same semantics as a defined procedure.
Change Wording:	See below.

## ***Update Section 12. Non-Patient Instance Service and Resources by adding Protocol Approvals***

### 5 **12 Non-Patient Instance Service and Resources**

#### **12.1 Overview**

...

##### 12.1.1 Resource Descriptions

...

10    npi-name = "color-palettes"  
        / "defined-procedure-protocols"  
        / "hanging-protocols"  
        / "implant-templates"  
        / "inventories"  
 15    / **"protocol-approvals"**

uid ; is the Unique Identifier of an NPI Instance

Table 12.1.1-1 contains the templates for the NPI Resource Categories.

**Table 12.1.1-1. Resource Categories, URI Templates and Descriptions**

Resource Category	URI Template and Description	Corresponding IODs	Storage Class	Information Model
Color Palette	/color-palettes{/uid}	Section A.58 “Color Palette IOD” in PS3.3	Section GG “Non-Patient Object Storage Service Class” in PS3.4	Section X.1.3 “Query/Retrieve Information Model” in PS3.4
Defined Procedure Protocol	/defined-procedure-protocols{/uid}	Section A.82 “Procedure Protocol IODs” in PS3.3, <b>except for “Protocol Approval IODs” in A.82.3</b>	Section GG “Non-Patient Object Storage Service Class” in PS3.4	Section HH.1.3 “Query/Retrieve Information Model” in PS3.4
Hanging Protocol	/hanging-protocols{/uid}	Section A.44 “Hanging Protocol IOD” in PS3.3	Section GG “Non-Patient Object Storage Service Class” in PS3.4	Section U.1.3 “Query/Retrieve Information Model” in PS3.4
Implant Template	/implant-templates{/uid}	Section A.61 “Generic Implant Template IOD” in PS3.3	Section GG “Non-Patient Object Storage Service Class” in PS3.4	Section BB.1.3 “Query/Retrieve Information Model” in PS3.4
Inventory	/inventories{/uid}	Section A.88 “Inventory IOD” in PS3.3	Section GG “Non-Patient Object Storage Service Class” in PS3.4	Section JJ.2 “Inventory Q/R Information Model” in PS3.4
<b><u>Protocol Approval</u></b>	<b><u>/protocol-approvals{/uid}</u></b>	<b><u>Section A.82.3 “Protocol Approval IODs” in PS3.3</u></b>	<b><u>Section GG “Non-Patient Object Storage Service Class” in PS3.4</u></b>	<b><u>Section II.1.3 “Query/Retrieve Information Model” in PS3.4</u></b>

20 ...

### 12.6.1.2 Query Parameters

...

**Table 12.6.1-2. NPI Resource Search Attributes**

Resource Category	Behaviors and Matching Key Attributes
Color Palette	Section X.6.1.2 “Color Palette Attributes” in PS3.4.
Defined Procedure Protocol	Section HH.6.1.2 “Defined Procedure Protocol Attributes” in PS3.4.
Hanging Protocol	Section U.6.1.2 “Hanging Protocol Attributes” in PS3.4.
Implant Template	Section BB.6.1.2 “Implant Template Attributes” in PS3.4.
Inventory	Section JJ.2.2 “Inventory Q/R Information Model Attributes” in PS3.4.
<b><u>Protocol Approval</u></b>	<b><u>Section II.6.1.2 “Protocol Approval Attributes” in PS3.4.</u></b>

...

<b>Update Annex H. Capabilities Description</b>
---

...

**Table H-1. Resources and Methods**

Service	Resource	Transactions	Reference
Studies (see Section 10.1.1)			
	studies	Search for Studies Store Instances	Section 10.6 Section 10.5
	{StudyInstance}	Retrieve Study Store Study Instances	Section 10.4 Section 10.5
	metadata	Retrieve Study Metadata	Section 10.4
	rendered	Retrieve Rendered Study	Section 10.4
	renderedmpr	Retrieve Rendered MPR Volume Study	Section 10.4
	rendered3d	Retrieve Rendered 3D Volume Study	Section 10.4
	thumbnail	Retrieve Study Thumbnail	Section 10.4
	bulkdata	Retrieve Study Bulkdata	Section 10.4
	pixeldata	Retrieve Study Pixel Data	Section 10.4
	series	Search for Study Series	Section 10.6
	{SeriesInstance}	Retrieve Series	Section 10.4
	metadata	Retrieve Series Metadata	Section 10.4
	rendered	Retrieve Rendered Series	Section 10.4
	renderedmpr	Retrieve Rendered MPR Volume Series	Section 10.4
	rendered3d	Retrieve Rendered 3D Volume Series	Section 10.4
	thumbnail	Retrieve Series Thumbnail	Section 10.4
	bulkdata	Retrieve Series Bulkdata	Section 10.4
	pixeldata	Retrieve Series Pixel Data	Section 10.4
	instances	Search for Study Series Instances	Section 10.4
	{SOPInstance}	Retrieve Instance	Section 10.4
	metadata	Retrieve Instance Metadata	Section 10.4

Service	Resource	Transactions	Reference
	rendered	Retrieve Rendered Instance	Section 10.4
	renderedmpr	Retrieve Rendered MPR Volume Instance	Section 10.4
	rendered3d	Retrieve Rendered 3D Volume Instance	Section 10.4
	thumbnail	Retrieve Instance Thumbnail	Section 10.4
	bulkdata	Retrieve Instance Bulkdata	Section 10.4
	pixeldata	Retrieve Instance Pixel Data	Section 10.4
	frames	N/A	N/A
	{framelist}	Retrieve Frames	Section 10.4
	rendered	Retrieve Rendered Frames	Section 10.4
	renderedmpr	Retrieve Rendered MPR Volume Frames	Section 10.4
	rendered3d	Retrieve Rendered 3D Volume Frames	Section 10.4
	thumbnail	Retrieve Frame Thumbnail	Section 10.4
	pixeldata	Retrieve Frame Pixel Data	Section 10.4
	instances	Search for Study Instances	Section 10.6
	series	Search for Series	Section 10.6
	{SeriesInstance}	N/A	N/A
	{instances}	Search for Instances	Section 10.6
	instances	Search for Instances	Section 10.6
	{BulkDataReference}	Retrieve Bulkdata	Section 10.4
Worklist (see Section 11.1.1)			
	workitems	Search for Workitem Create Workitem	Section 11.9 Section 11.4
	{Workitem}	Retrieve Workitem Update Workitem	Section 11.4 Section 11.6
	state	Change Workitem State	Section 11.7
	cancelrequest	Request Workitem Cancellation	Section 11.8
	subscribers	N/A	N/A
	{AETitle}	Subscribe	Section 11.10
		Unsubscribe	Section 11.11

Service	Resource	Transactions	Reference
	1.2.840.10008.5.1.4.34.5	N/A	N/A
	subscribers	N/A	N/A
	{AETitle}	Subscribe Unsubscribe	Section 11.10 Section 11.11
	suspend	Unsubscribe	Section 11.11
	1.2.840.10008.5.1.4.34.5.1	N/A	N/A
	subscribers	N/A	N/A
	{AETitle}	Subscribe Unsubscribe	Section 11.10 Section 11.11
	suspend	Suspend Worklist Subscription	Section 11.11
Non-Patient Instance (see Section 12.1.1)			
	color-palettes	N/A	N/A
	{uid}	Retrieve Store Search	Section 12.4 Section 12.5 Section 12.6
	defined-procedure-protocol	N/A	N/A
	{uid}	Retrieve Store Search	Section 12.4 Section 12.5 Section 12.6
	hanging-protocol	N/A	N/A
	{uid}	Retrieve Store Search	Section 12.4 Section 12.5 Section 12.6
	implant-templates	N/A	N/A
	{uid}	Retrieve Store Search	Section 12.4 Section 12.5 Section 12.6
	inventories	N/A	N/A
	{uid}	Retrieve Store	Section 12.4 Section 12.5

Service	Resource	Transactions	Reference
		Search	Section 12.6
	<u>protocol-approval</u>	<u>N/A</u>	<u>N/A</u>
	<u>{uid}</u>	<u>Retrieve</u> <u>Store</u> <u>Search</u>	<u>Section 12.4</u> <u>Section 12.5</u> <u>Section 12.6</u>
Storage Commitment Requests (see Section 13.1.1)			
	commitment-requests	Request	Section 13.4
		Result Check	Section 13.5