# DICOMweb Modality Services

## SUBMITTED BY Dieter Krotz/Jeroen Medema

## On Behalf of Working Group WG27

(Web Services for DICOM)

## Introduction/Scope

The DICOM Standard defines several services. Two of these are targeted towards modalities, namely the Modality Worklist service (see [PS3.4, Annex K](https://dicom.nema.org/medical/dicom/current/output/html/part04.html#chapter_K), more specifically [K.6.1](https://dicom.nema.org/medical/dicom/current/output/html/part04.html#sect_K.6.1)) and the Modality Performed Procedure Step service (see [PS3.4, Annex F](https://dicom.nema.org/medical/dicom/current/output/html/part04.html#chapter_F), more specifically [F.7-F.9](https://dicom.nema.org/medical/dicom/current/output/html/part04.html#sect_F.7)). Currently, these services are defined using DIMSE.

## Limitations of Current Standard

Both the Modality Worklist service and the Modality Performed Procedure Step service are not yet available in DICOMweb. This limits a) the uptake of DICOMweb for modalities and b) the support of workflow services for modalities that are (intended to be) part of a web-based ecosystem.

## Description of Proposal

Add the Modality Worklist and the Modality Performed Procedure Step services to DICOMweb, in principle based on the existing DICOMweb Worklist service (UPS-RS; see [PS3.18, section 11](https://dicom.nema.org/medical/dicom/current/output/html/part18.html#chapter_11)). This would boil down to creating an informative annex and any normative changes needed if gaps are discovered.

In this, the mapping of MWL to UPS-RS in IHE’s Encounter Based Imaging Workflow profile is considered a good start for the DICOMweb Modality Worklist service.

Also note that the activities in WG20 on the Imaging Service Request Profile Implementation Guide will be taken into account.

## Parts of Standard Affected

It is expected that this work item affects Parts 2, 6, 17 and 18 of the DICOM standard.

## Resources & Timeline

About 12 people are active in Working Group 27. Dieter Krotz from Siemens and Jeroen Medema from Philips have volunteered to work on writing this supplement. It is estimated that this work will take several months. A first draft should be available by April 2024.

Members of WG27 anticipate that two to four hours of Working Group Six meeting time will be required on four occasions during 2024/2025 to review and approve an early draft as well as public comment, letter ballot, and final text versions of the supplement.