



DICOM Modality Worklist Conformance Statement

Document 4016 Revision B

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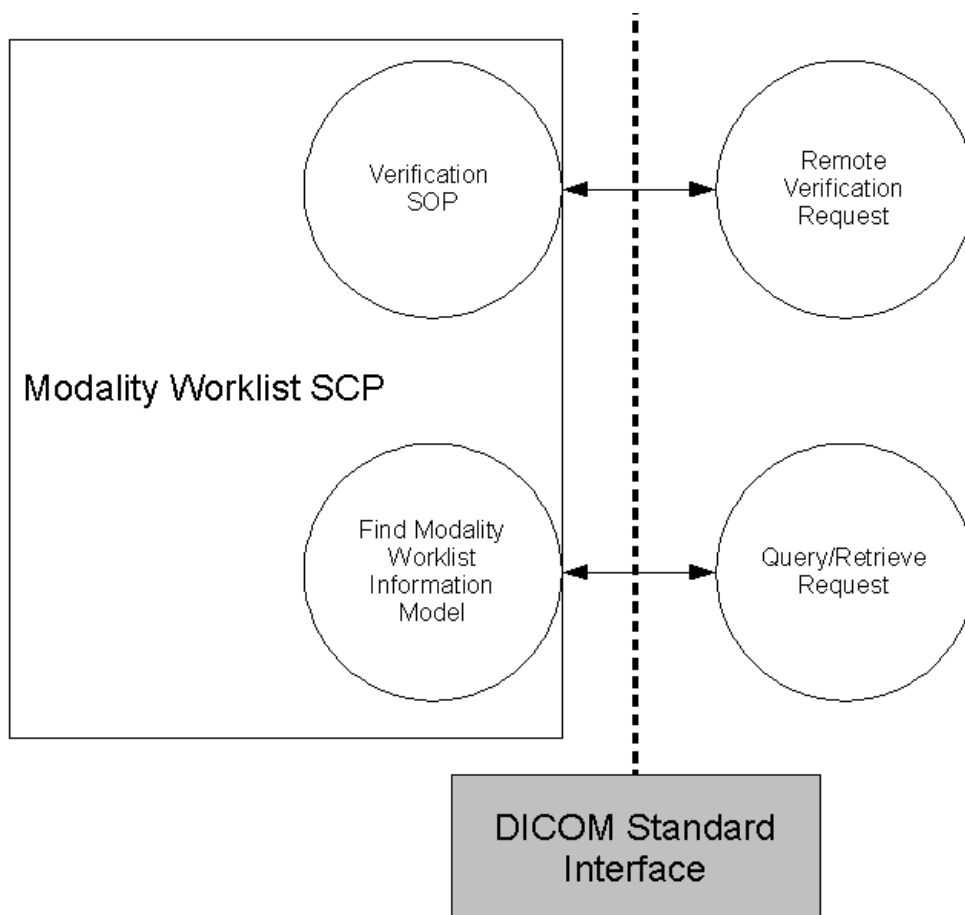
<i>Software Version</i>	<i>Implementation Date</i>	<i>Comments</i>
2.0.0	November 2007	Production Release

1.0 Introduction

This document is the DICOM conformance statement for the Modality Worklist Service Class Provider (SCP). Further information regarding abbreviations and definitions can be found in the Digital Imaging and Communications in Medicine (DICOM) standard (<ftp://medical.nema.org/medical/dicom/2008/>).

2.0 Implementation Model

2.1 Application Data Flow Diagram





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2.2 Functional Definition of Application Entities

The Worklist service implements a SCP for the Basic Worklist Management Service. It listens for association requests from a Worklist Management SCU on a specified TCP/IP port. If the association is acknowledged and a query received, the Worklist service will respond to the calling SCU with the Worklist information. The Worklist service also supports the Verification Service Class.

2.3 Sequencing of Real-World Activities

Not applicable.

3.0 Application Entity Specifications

3.1 Modality Worklist Application Entity

The Worklist service Application Entity provides Standard Conformance to the following DICOM 3.0 Standard SOP Classes as SCP:

SOP Class Name	SOP Class UID
Verification	1.2.840.10008.1.1
Basic Worklist Management	1.2.840.10008.5.1.4.31

3.2 Association Establishment Policies

3.2.1 General

The Worklist service listens for association requests from a Worklist Management SCU on a specified TCP/IP port. If the association is acknowledged and a query received, the Worklist service will respond to the calling SCU with the Worklist information.

Application Context Name	1.2.840.10008.3.1.1.1
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3.2.2 Number of Associations

The number of parallel associations that the Worklist service can accept is configurable and limited only to the capacity of the operating environment.

3.2.3 Asynchronous Communication

Not supported.

3.2.4 Implementation Identifying Information

Implementation Class UID	1.2.276.0.7230010.3.0.3.5.4
Implementation Version Name	OFFIS_DCMTK_354

3.3 Association Initiation Policy

3.3.1 Association Initiation by Real-World Activity

A worklist management SCU can send a C-Find request to the Worklist service and if the association is accepted it will respond with matching entries in the repository.

3.4 Association Acceptance Policy

3.4.1 Accepted Presentation Contexts

The Worklist service will accept presentation contexts for all of the supported SOP Classes using any of the transfer syntaxes:

SOP Class Name	SOP Class UID
Little Endian Implicit	1.2.840.10008.1.2
Little Endian Explicit	1.2.840.10008.1.2.1
Big Endian Explicit	1.2.840.10008.1.2.2

Extended negotiation is not supported for any transfer syntax.



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3.4.2 SOP Specific Conformance for the Modality Worklist Service

The Worklist service supports the following attributes as matching keys:

Attribute Name	Attribute Tag
Accession Number	(0008,0050)
Referring Physician Name	(0008,0090)
Patient Name	(0010,0010)
Patient ID	(0010,0020)
Patient Birth Date	(0010,0030)
Patient Sex	(0010,0040)
Requesting Physician	(0032,1032)
Admission ID	(0038,0010)
Scheduled Procedure Step Sequence	
> Modality	(0008,0060)
> Scheduled Station AET	(0040,0001)
> SPS Start Date	(0040,0002)
> SPS Start Time	(0040,0003)
> Performing Physician Name	(0040,0006)
Requested Procedure	



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Requested Procedure ID	(0040,1001)
Requested Procedure Priority	(0040,1003)

The Worklist service supports the following attributes as return keys:

Attribute Name	Attribute Tag
Specific Character Set	(0008,0005)
Accession Number	(0008,0050)
Institution Name	(0008,0080)
Institution Address	(0008,0081)
Referring Physician Name	(0008,0090)
Referenced Study Sequence	
> Referenced SOP Class UID	(0008,1150)
> Referenced SOP Instance UID	(0008,1155)
Referenced Patient Sequence	
> Referenced SOP Class UID	(0008,1150)
> Referenced SOP Instance UID	(0008,1155)
Patient Information	
Patient Name	(0010,0010)
Patient ID	(0010,0020)

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Patient Birth Date	(0010,0030)
Patient Sex	(0010,0040)
Other Patient IDs	(0010,1000)
Other Patient Names	(0010,1001)
Patient Size	(0010,1020)
Patient Weight	(0010,1030)
Patient Address	(0010,1040)
Military Rank	(0010,1080)
Medical Alerts	(0010,2000)
Contrast Allergies	(0010,2110)
Ethnic Group	(0010,2160)
Smoking Status	(0010,21a0)
Additional Patient History	(0010,21b0)
Pregnancy Status	(0010,21c0)
Last Menstrual Date	(0010,21d0)
Patient Comments	(0010,4000)
Study Instance UID	(0020,000d)
Requesting Physician	(0032,1032)

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Requesting Service	(0032,1033)
Req. Procedure Description	(0032,1060)
Requested Procedure Code Sequence	
> Code Value	(0008,0100)
> Coding Scheme Designator	(0008,0102)
> Coding Scheme Version	(0008,0103)
> Code Meaning	(0008,0104)
Admission Information	
Admission ID	(0038,0010)
Issuer of Admission ID	(0038,0011)
Special Needs	(0038,0050)
Current Patient Location	(0038,0300)
Patient State	(0038,0500)
Scheduled Procedure Step Sequence	
> Modality	(0008,0060)
> Requested Contrast Agent	(0032,1070)
> Scheduled Station AET	(0040,0001)
> SPS Start Date	(0040,0002)

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> SPS Start Time	(0040,0003)
> SPS End Date	(0040,0004)
> SPS End Time	(0040,0005)
> Performing Physician Name	(0040,0006)
> SPS Description	(0040,0008)
Schedule Protocol Code Sequence	
>> Code Value	(0008,0100)
>> Coding Scheme Designator	(0008,0102)
>> Coding Scheme Version	(0008,0103)
>> Code Meaning	(0008,0104)
> SPS ID	(0040,0009)
> Scheduled Station Name	(0040,0010)
> SPS Location	(0040,0011)
> Pre Medication	(0040,0012)
> SPS Status	(0040,0020)
> SPS Comments	(0040,0400)
Requested Procedure	
Requested Procedure ID	(0040,1001)



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Request Reason	(0040,1002)
Requested Procedure Priority	(0040,1003)
Patient Transport Arrangements	(0040,1004)
Requested Procedure Location	(0040,1005)
Confidentiality Code	(0040,1008)
Reporting Priority	(0040,1009)
Result Recipients	(0040,1010)
Requested Procedure Comments	(0040,1400)
Reason for Imaging Service Request (ISR)	(0040,2001)
ISR Issue Date	(0040,2004)
ISR Issue Time	(0040,2005)
Order Entered By	(0040,2008)
Order Entry Location	(0040,2009)
Order Callback Phone	(0040,2010)
ISR Placer Order Number	(0040,2016)
ISR Filler Order Number	(0040,2017)
ISR Comments	(0040,2400)
Confidentiality Constraint on Patient Data	(0040,3001)



4.0 Communication Profiles

4.1 TCP/IP Stack – Supported

The Worklist service inherits the TCP/IP stack from the Microsoft Windows operating system.

No other profiles are supported.

5.0 Extensions/Specializations/Privatizations

Not applicable.

6.0 Configuration

All configurable options may be set in the Modality Worklist Configuration GUI installed with the Worklist service and the configuration guide.