

SOFT *medical*

DICOM Agent
Conformance Statement

Version 1.4
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www.softmedical.com

Softmedical
5929 Trans Canada Hwy, Suite 310
St-Laurent, Quebec
H4T 1Z6 Canada

voice: 514-747-1018
toll free: 877-747-1018
data: 514-747-8629

e-mail: info@softmedical.com

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Table 0: Document history

Revision	Author	Date	Comments
1.0	Rudy	November 1998	initial version
1.1	Rudy	May 10, 1999	added Query/Retrieve SCP
1.2	Rudy	June 29, 1999	added Storage Commitment SCP
1.3	Rita	June 30, 2000	added Modality Worklist SCP added optional matching attributes for the C-Find SCP added C-Find SCP Keys for Presentation State and SR Updated storage SOP Added conformance to SR and PS Storage Added MPPS SCP, SCU
1.4	Rudy	July 30, 2003	added Print Management SCU added General Purpose Worklist, Scheduled Procedure Step, Performed Procedure Step

1. Introduction

This document defines the conformance of Softmedical's DICOM Agent.

1.1. Sources for this Document

- ACR-NEMA Digital Imaging and Communications in Medicine (DICOM) v3.0, 2003.

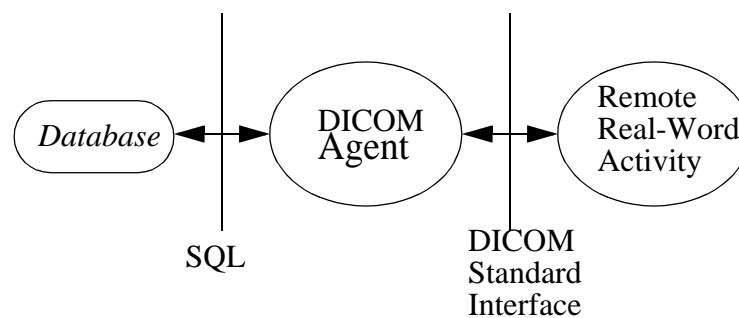
1.2. Symbols and Abbreviations

The following symbols and abbreviations are used:

- ACR American College of Radiology
- ANSI American National Standards Institute
- DICOM Digital Imaging and Communications in Medicine
- DIMSE DICOM Message Service Element
- DIMSE-C DICOM Message Service Element-Composite
- DIMSE-N DICOM Message Service Element-Normalized
- NEMA National Electrical Manufacturers Association
- PDU Protocol Data Unit
- SCP Service Class Provider
- SCU Service Class User
- SOP Service Object Pair
- TCP/IP Transmission Control Protocol/Internet Protocol
- UID Unique Identifier

2. Implementation Model

2.1. Application Data Flow Diagram



2.1.1. Store

DICOM Agent receives images and stores them in its database as DICOM files.
DICOM Agent sends images to other DICOM peers.

2.1.2. Query

DICOM Agent issues and responds to queries.

2.1.3. Retrieve

DICOM Agent issues and responds to retrieve requests.

2.1.4. Storage Commitment

DICOM Agent receives storage commitments and notify about their status.

2.1.5. Modality Worklist

DICOM Agent responds to Modality Worklist queries.

2.1.6. Modality Performed Procedure Step

DICOM Agent creates, updates, and responds to Modality Performed Procedure Step.

2.1.7. General Purpose Worklist

DICOM Agent issues and responds to General Purpose Worklist queries.

2.1.8. General Purpose Scheduled Procedure Step

DICOM Agent issues and responds to General Purpose Scheduled Procedure Step actions.

2.1.9. General Purpose Performed Procedure Step

DICOM Agent creates, updates, and responds to General Purpose Performed Procedure Step.

2.1.10. Print Management

DICOM Agent issues print requests.

3. AE Specifications

3.1. DICOM Agent - Specification

DICOM Agent provides Standard Conformance to the following DICOM V3.0 SOP Classes.

Table 1: Verification SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
Verification	1.2.840.10008.1.1

Table 2: Storage SOP Classes-SCU and SCP

SOP Class Name	SOP Class UID
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1
CT Image Storage Ultrasound	1.2.840.10008.5.1.4.1.1.2
Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1.4
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1
Digital Mammography Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2
Digital Mammography Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50

Table 2: Storage SOP Classes-SCU and SCP

SOP Class Name	SOP Class UID
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59

Table 3: Query SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
Study Root Query/Retrieve Information Model C-Find	1.2.840.10008.5.1.4.1.2.2.1

Table 4: Retrieve SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
Study Root Query/Retrieve Information Model C-Move	1.2.840.10008.5.1.4.1.2.2.2

Table 5: Storage Commitment SOP Class-SCP

SOP Class Name	SOP Class UID
Storage Commitment Push Model	1.2.840.10008.1.20.1

Table 6: Modality Worklist SOP Class-SCP

SOP Class Name	SOP Class UID
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31

Table 7: Modality Performed Procedure Step- SCU and SCP

SOP Class Name	SOP Class UID
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3

Table 8: General Purpose Worklist SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
General Purpose Worklist Information Model - FIND	1.2.840.10008.5.1.4.32.1
General Purpose Worklist Management Meta	1.2.840.10008.5.1.4.32

Table 9: General Purpose Scheduled Procedure Step SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
General Purpose Scheduled Procedure Step	1.2.840.10008.5.1.4.32.2

Table 9: General Purpose Scheduled Procedure Step SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
General Purpose Worklist Management Meta	1.2.840.10008.5.1.4.32

Table 10: General Purpose Performed Procedure Step SOP Class-SCU and SCP

SOP Class Name	SOP Class UID
General Purpose Performed Procedure Step	1.2.840.10008.5.1.4.32.3
General Purpose Worklist Management Meta	1.2.840.10008.5.1.4.32

Table 11: Print Management SOP Class-SCU

SOP Class Name	SOP Class UID
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9

DICOM Agent provides Standard Conformance to the following transfer syntaxes:

Table 12: Transfer Syntaxes

Transfer Syntax Name	UID
Explicit VR Big Endian	1.2.840.10008.1.2.2
Explicit VR Little Endian	1.2.840.10008.1.2.1
Implicit VR Little Endian	1.2.840.10008.1.2

3.1.1. Association Establishment Policies

3.1.1.1. General

DICOM Agent has no limitation on the maximum PDU size.

3.1.1.2. Number of Associations

The number of simultaneous associations accepted by DICOM Agent can be configured based on the hardware resources. There is no limit imposed by DICOM Agent.

3.1.1.3. Asynchronous Nature

Multiple outstanding transactions are not supported.

3.1.1.4. Implementation Identifying Information

DICOM Agent is identified as follows:

- Implementation Class UID 2.16.124.10.2.1.2.0
- Implementation Version Name SoftmedicalDicomAgentxxxxx
where xxxxx is the DICOM Agent software version number.

3.1.2. Association Initiation by Real-World Activity

DICOM Agent initiates an association in order to verify a communication, to query data for patient, study, image or other composite object, to retrieve images or other composite objects, to store images or other composite objects, to notify about the status of a storage commitment, to forward modality performed procedure steps, to query for general purpose worklist, to change the status of a general purpose scheduled procedure step, to generate or update a general purpose performed procedure step, and to print.

3.1.2.1. Real World Activity - Verification

3.1.2.1.1. Associated Real World Activity - Verification

DICOM Agent will issue C-ECHO-RQ requests to verify the validity of DICOM connection.

3.1.2.1.2. Proposed Presentation Contexts - Verification

Table 13: Proposed Presentation Contexts - Verification

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 1	Table 12	SCU	None

3.1.2.2. Real World Activity -Query

3.1.2.2.1. Associated Real World Activity - Query

DICOM Agent will issue C-FIND-RQ to query a SCP for data.

3.1.2.2.2. Proposed Presentation Contexts - Query

Table 14: Proposed Presentation Contexts - Query

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 3	Table 12	SCU	None
Table 8	Table 12	SCU	None

3.1.2.2.3. SOP Specific Conformance Statement for SOP Class Query/Retrieve

DICOM Agent requests the following Return Keys. Matching Keys are indicated in **bold**

Table 15: Patient Level Keys- SCU

Description	Tag
Patient name	(0010, 0010)
Patient ID	(0010, 0020)
Patient's Birth Date	(0010,0030)
Patient's Sex	(0010,0040)

Table 16: Study Level Keys- SCU

Description	Tag
Study instance UID	(0020, 000D)
Study ID	(0020, 0010)
Study date	(0008, 0020)
Study time	(0008, 0010)
Accession number	(0008, 0050)
Modalities in Study	(0008,0061)
Referring Physician's Name	(0008,0090)
Number of Study Related Series	(0020,1206)
Number of Study Related Instances	(0020,1208)

Table 17: Series Level Keys- SCU

Description	Tag
Series instance UID	(0020, 000E)
Series number	(0020, 0011)
Modality	(0008, 0060)
Number of Series Related Instances	(0020,1209)
Request Attributes Sequence	(0040,0275)
>Requested Procedure ID	(0040,1001)
>Scheduled Procedure Step ID	(0040,0009)
Performed Procedure Step Start Date	(0040,0244)

Table 17: Series Level Keys- SCU

Description	Tag
Performed Procedure Step Start Time	(0040,0245)

Table 18: Composite Object Instance Level Keys- SCU

Description	Tag
SOP instance UID	(0008, 0018)
Instance number	(0020, 0013)
SOP Class UID	(0008,0016)

Table 19: Additional Image Specific Keys- SCU

Description	Tag
Rows	(0028,0010)
Columns	(0028,0011)
Bits Allocated	(0028,0100)
Number of Frames	(0028,0008)

Table 20: Additional Presentation State Specific Keys- SCU

Description	Tag
Presentation Label	(0070,0080)
Presentation Description	(0070,0081)
Presentation Creation Date	(0070,0082)
Presentation Creation Time	(0070,0083)
Presentation Creator's Name	(0070,0084)
Referenced Series Sequence	(0008,1115)
>Series Instance UID	(0020,000E)
>Referenced Image Sequence	(0008,1140)
>>Referenced SOP Class UID	(0008,1150)
>>Referenced SOP Instance UID	(0008,1155)

Table 21: Additional SR (and Evidence Document) Instance Specific Keys- SCU

Description	Tag
Completion Flag	(0040,A491)
Verification Flag	(0040,A493)
Content Date	(0008,0023)
Content Time	(0008,0033)
Observation Date Time	(0040,A032)
Verifying Observer Sequence	(0040,A073)
Verifying Organization	(0040,A027)
>Verification Date Time	(0040,A030)
>Verifying Observer Name	(0040,A075)
>Verifying Observer Identification Code Sequence	(0040,A088)
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Accession Number	(0008,0050)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Coding Scheme Version	(0008,0103)
>>Code Meaning	(0008,0104)
Concept Name Code Sequence	(0040,A043)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Coding Scheme Version	(0008,0103)
>Code Meaning	(0008,0104)
Content Template Sequence	(0040,A504)
>Template Identifier	(0040,DB00)

**Table 22: Additional Key Object Selection Document
Instance Specific Keys- SCU**

Description	Tag
Content Date	(0008,0023)
Content Time	(0008,0033)
Observation Date Time	(0040,A032)
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Accession Number	(0008,0050)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Coding Scheme Version	(0008,0103)
>>Code Meaning	(0008,0104)
Concept Name Code Sequence	(0040,A043)
> Code Value	(0008,0100)
> Coding Scheme Designator	(0008,0102)
>Coding Scheme Version	(0008,0103)
>Code Meaning	(0008,0104)

3.1.2.2.4. SOP Specific Conformance Statement for SOP Class General Purpose Worklist

DICOM Agent supports the following General Purpose Worklist Return Keys; Matching Keys are indicated in **bold**

**Table 23: Attributes for the General Purpose Worklist Information Model- SOP
Common**

Description	Tag
Specific Character Set	(0008,0005)
SOP Class UID	(0008,0016)
SOP Instance UID	(0008,0018)

Table 24: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
General Purpose Scheduled Procedure Step Status	(0040,4001)
Input Availability Flag	(0040,4020)
General Purpose Scheduled Procedure Step Priority	(0040,4003)
Scheduled Procedure Step ID	(0040,0009)
Scheduled Workitem Code Sequence	(0040,4018)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Processing Applications Code Sequence	(0040,4004)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Name Code Sequence	(0040,4025)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Class Code Sequence	(0040,4026)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Geographical Location Code Sequence	(0040,4027)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)

Table 24: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
Scheduled Procedure Step Start Date and Time	(0040,4005)
Expected Completion Date and Time	(0040,4011)
Scheduled Human Performers Sequence	(0040,4034)
> Human Performer Code Sequence	(0040,4009)
>> Code Value	(0008,0100)
>> Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Human Performer's Name	(0040,4037)
>Human Performer's Organization	(0040,4036)
Referenced Study Component Sequence	(0008,1111)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)
Input Information Sequence	(0040,4021)
>Study Instance UID	(0020,000D)
>Referenced Series Sequence	(0008,1115)
>>Series Instance UID	(0020,000E)
>>Retrieve AE Title	(0008,0054)
>>Storage Media File-Set ID	(0088,0130)
>>Storage Media File-Set UID	(0088,0140)
>>Referenced SOP Sequence	(0008,1199)
>>>Referenced SOP Class UID	(0008,1150)
>>>Referenced SOP Instance UID	(0008,1155)
Relevant Information Sequence	(0040,4022)
>Study Instance UID	(0020,000D)
>Referenced Series Sequence	(0008,1115)
>>Series Instance UID	(0020,000E)

Table 24: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
>>Retrieve AE Title	(0008,0054)
>>Storage Media File-Set ID	(0088,0130)
>>Storage Media File-Set UID	(0088,0140)
>>Referenced SOP Sequence	(0008,1199)
>>>Referenced SOP Class UID	(0008,1150)
>>>Referenced SOP Instance UID	(0008,1155)
Resulting General Purpose Performed Procedure Step Sequence	(0040,4015)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)
Actual Human Performers Sequence	(0040,4035)
>Human Performer Code Sequence	(0040,4009)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Human Performer's Name	(0040,4037)
>Human Performer's Organization	(0040,4036)
Study Instance UID	(0020,000D)
Multiple Copies Flag	(0040,4006)

Table 25: Attributes for the General Purpose Worklist Information Model- General Purpose Scheduled Procedure Step Relationship

Description	Tag
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Referenced Study Sequence	(0008,1110)
>>Referenced SOP Class UID	(0008,1150)

Table 25: Attributes for the General Purpose Worklist Information Model- General Purpose Scheduled Procedure Step Relationship

Description	Tag
>>Referenced SOP Instance UID	(0008,1155)
> Requested Procedure ID	(0040,1001)
>Requested Procedure Description	(0032,1060)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
> Accession Number	(0008,0050)
>Requesting Physician	(0032,1032)

Table 26: Attributes for the General Purpose Worklist Information Model- Patient Identification

Description	Tag
Patient's Name	(0010,0010)
Patient ID	(0010,0020)

Table 27: Attributes for the General Purpose Worklist Information Model- Patient Demographic

Description	Tag
Patients Birth Date	(0010,0030)
Patient's Sex	(0010,0040)
Confidentiality constraint on patient data	(0040,3001)

Table 28: Attributes for the General Purpose Worklist Information Model- Patient Medical

Description	Tag
Patient State	(0038,0500)
Pregnancy Status	(0010,21C0)
Medical Alerts	(0010,2000)

Table 28: Attributes for the General Purpose Worklist Information Model- Patient Medical

Description	Tag
Contrast Allergies	(0010,2110)
Special Needs	(0038,0050)
Patient Weight	(0010,1030)

3.1.2.3. Real World Activity - Retrieve

3.1.2.3.1. Associated Real World Activity - Retrieve

DICOM Agent will issue C-MOVE-RQ to retrieve images and reports.

3.1.2.3.2. Proposed Presentation Contexts- Retrieve

Table 29: Proposed Presentation Contexts - Retrieve

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 4	Table 12	SCU	None

3.1.2.4. Real World Activity -Storage

3.1.2.4.1. Associated Real World Activity - Storage

DICOM Agent issues C-STORE-RQ to store information objects.

3.1.2.4.2. Proposed Presentation Contexts - Storage

Table 30: Proposed Presentation Contexts - Storage

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 2	Table 12	SCU	None

3.1.2.4.3. SOP Specific Conformance Statement for SOP Class Grayscale Softcopy Presentation State Storage

Presentation related attributes for new SOP Instances of a Grayscale Softcopy Presentation State Storage SOP are derived from operator intervention.

The Image Storage SOP Classes which may be referenced by instances of the Grayscale Softcopy Presentation State Storage SOP are enumerated in Table 2.

3.1.2.4.4. SOP Specific Conformance Statement for SOP Class Basic Text SR

The Image or other composite object Storage SOP Classes which may be referenced by instances of the Structured Reporting Storage SOP are enumerated in Table 2.

A new SOP Instance UID is generated for an existing SR Document if the SR Document Content has been modified as specified in section O.3 of part 4 of the standard.

3.1.2.5. Real World Activity -Storage Commitment Notification

3.1.2.5.1. Associated Real World Activity - Storage Commitment Notification

DICOM Agent issues N-EVENT-REPORT-RQ to inform the SCU whether or not it has accepted storage commitment responsibility for the SOP instances referenced by a Storage Commitment Request.

3.1.2.5.2. Proposed Presentation Contexts - Storage Commitment Notification

Table 31: Proposed Presentation Contexts - Storage Commitment Notification

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 5	Table 12	SCP	None

3.1.2.5.3. SOP Specific Conformance Statement for SOP Class Storage Commitment

DICOM Agent does not support the optional Storage Media File-Set in the N-EVENT-REPORT. DICOM Agent does not support the optional Retrieve AE Title in the N-EVENT-REPORT.

3.1.2.6. Real World Activity - Modality Performed Procedure Step

3.1.2.6.1. Associated Real World Activity - Modality Performed Procedure Step

DICOM Agent issues N-CREATE-RQ to create an instance of the Modality Performed Procedure Step SOP.

DICOM Agent issues N-SET-RQ to set Attribute Values of an instance of the Modality Performed Procedure Step SOP.

3.1.2.6.2. Proposed Presentation Contexts - Modality Performed Procedure Step

Table 32: Proposed Presentation Contexts - Modality Performed Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 7	Table 12	SCU	None

3.1.2.6.3. SOP Specific Conformance Statement for SOP Class Modality Performed Procedure Step

Attributes of type-1 and type-2 can be used.

DICOM Agent will forward MPPS N-CREATE and MPPS N-SET to configured AE.

3.1.2.7. Real World Activity - General Purpose Scheduled Procedure Step

3.1.2.7.1. Associated Real World Activity - General Purpose Scheduled Procedure Step

DICOM Agent issues N-ACTION-RQ to request the modification of Attribute Values of an instance of the General Purpose Scheduled Procedure Step SOP Class and provide information about a specific real-world General Purpose Scheduled Procedure Step that is under control of the SCP.

3.1.2.7.2. Proposed Presentation Contexts - General Purpose Scheduled Procedure Step

Table 33: Proposed Presentation Contexts - General Purpose Scheduled Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 9	Table 12	SCU	None

3.1.2.8. Real World Activity - General Purpose Performed Procedure Step

3.1.2.8.1. Associated Real World Activity - General Purpose Performed Procedure Step

DICOM Agent issues N-CREATE-RQ to create an instance of the General Purpose Performed Procedure Step SOP.

DICOM Agent issues N-SET-RQ to set Attribute Values of an instance of the General Purpose Performed Procedure Step SOP.

3.1.2.8.2. Proposed Presentation Contexts - General Purpose Performed Procedure Step

Table 34: Proposed Presentation Contexts -General Purpose Performed Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 10	Table 12	SCU	None

3.1.2.8.3. SOP Specific Conformance Statement for SOP Class General Purpose Performed Procedure Step

Attributes of type-1 and type-2 can be used.

3.1.2.9. Real World Activity - Print Management

3.1.2.9.1. Associated Real World Activity - Print Management

DICOM Agent issues print requests asking a print management SCP to print a set of images.

3.1.2.9.2. Proposed Presentation Contexts - Print Management

Table 35: Proposed Presentation Contexts -Print Management

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 11	Table 12	SCU	None

3.1.2.9.3. SOP Specific Conformance Statement for SOP Class Print Management

The optional Presentation LUT SOP Class and Basic Annotation Box SOP Class are supported. The only value supported for Image Display Format (2010,0010) is STANDARD\C,R. All other attributes' value are configurable.

3.1.3. Association Acceptance Policy

DICOM Agent accepts an association in response to a verification, to a query, to retrieve images or other composite objects, to store images or other composite objects, to commit storage, to modality performed procedure step creation and update, to general purpose worklist query, to general purpose scheduled procedure step actions, and to general purpose performed procedure step creation and update.

3.1.3.1. Real World Activity - Verification

3.1.3.1.1. Associated Real World Activity - Verification

DICOM Agent will respond with C-ECHO-RSP to Verification requests.

3.1.3.1.2. Acceptable Presentation Contexts - Verification

Table 36: Acceptable Presentation Contexts - Verification

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 1	Table 12	SCP	None

3.1.3.1.3. SOP Specific Conformance for SOP Class Verification

DICOM Agent returns one of the following status codes:

Table 37: C-ECHO Response Status Values

Code	Status	Description
0000	Success	Operation performed properly

3.1.3.1.4. Presentation Context Acceptance Criterion - Verification

DICOM Agent will always accept all of the Presentation Context for the Verification SOP Class mentioned in Table 36.

3.1.3.1.5. Transfer Syntax Selection Policies - Verification

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.2. Real World Activity -Query

3.1.3.2.1. Associated Real World Activity - Query

DICOM Agent will respond with C-FIND-RSP to query requests.

3.1.3.2.2. Acceptable Presentation Contexts- Query

Table 38: Acceptable Presentation Contexts - Query

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 3	Table 12	SCP	None
Table 6	Table 12	SCP	None
Table 8	Table 12	SCP	None

3.1.3.2.3. Matching Key Type - Query

DICOM Agent supports all required matching key types:

Table 39: Matching Key Type - Query

Matching key type	
SV	single valued match
WC	wild card match
SQ	sequence match
DR	date range match

3.1.3.2.4. C-FIND Response Status Values

DICOM Agent returns one of the following status codes to a C-FIND request.

Table 40: C-FIND Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
FF00	Pending	Matches are continuing - Current Match is supplied and any Optional Keys were supported in the same manner as Required Keys.
FF01	Pending	Matches are continuing - Warning that one or more Optional Keys were not supported for existence and/or matching for this Identifier.

Table 40: C-FIND Response Status Values

Code	Status	Description
A700	Refused	Out of Resources
A900	Failed	Identifier contains a request that does not match the specified SOP Class.
C001	Failed	Unable to process.

3.1.3.2.5. SOP Specific Conformance Statement for SOP Class Query/Retrieve

DICOM Agent supports the following Return Keys; Matching Keys are indicated in **bold**

Table 41: Patient Level Keys- SCP

Description	Tag
Patient name	(0010, 0010)
Patient ID	(0010, 0020)
Patient's Birth Date	(0010,0030)
Patient's Sex	(0010,0040)

Table 42: Study Level Keys- SCP

Description	Tag
Study instance UID	(0020, 000D)
Study ID	(0020, 0010)
Study date	(0008, 0020)
Study time	(0008, 0010)
Accession number	(0008, 0050)
Modalities in Study	(0008,0061)
Referring Physician's Name	(0008,0090)
Number of Study Related Series	(0020,1206)
Number of Study Related Instances	(0020,1208)

Table 43: Series Level Keys- SCP

Description	Tag
Series instance UID	(0020, 000E)
Series number	(0020, 0011)

Table 43: Series Level Keys- SCP

Description	Tag
Modality	(0008, 0060)
Number of Series Related Instances	(0020,1209)
Request Attributes Sequence	(0040,0275)
> Requested Procedure ID	(0040,1001)
> Scheduled Procedure Step ID	(0040,0009)
Performed Procedure Step Start Date	(0040,0244)
Performed Procedure Step Start Time	(0040,0245)

Table 44: Composite Object Instance Level Keys- SCP

Description	Tag
SOP instance UID	(0008, 0018)
Instance number	(0020, 0013)
SOP Class UID	(0008,0016)

Table 45: Additional Image Specific Keys- SCP

Description	Tag
Rows	(0028,0010)
Columns	(0028,0011)
Bits Allocated	(0028,0100)
Number of Frames	(0028,0008)

Table 46: Additional Presentation State Specific Keys- SCP

Description	Tag
Presentation Label	(0070,0080)
Presentation Description	(0070,0081)
Presentation Creation Date	(0070,0082)
Presentation Creation Time	(0070,0083)
Presentation Creator's Name	(0070,0084)
Referenced Series Sequence	(0008,1115)

Table 46: Additional Presentation State Specific Keys- SCP

Description	Tag
>Series Instance UID	(0020,000E)
>Referenced Image Sequence	(0008,1140)
>>Referenced SOP Class UID	(0008,1150)
>>Referenced SOP Instance UID	(0008,1155)

Table 47: Additional SR (and Evidence Document) Instance Specific Keys- SCP

Description	Tag
Completion Flag	(0040,A491)
Verification Flag	(0040,A493)
Content Date	(0008,0023)
Content Time	(0008,0033)
Observation Date Time	(0040,A032)
Verifying Observer Sequence	(0040,A073)
Verifying Organization	(0040,A027)
>Verification Date Time	(0040,A030)
>Verifying Observer Name	(0040,A075)
>Verifying Observer Identification Code Sequence	(0040,A088)
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Accession Number	(0008,0050)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Coding Scheme Version	(0008,0103)
>>Code Meaning	(0008,0104)
Concept Name Code Sequence	(0040,A043)

Table 47: Additional SR (and Evidence Document) Instance Specific Keys- SCP

Description	Tag
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Coding Scheme Version	(0008,0103)
>Code Meaning	(0008,0104)
Content Template Sequence	(0040,A504)
>Template Identifier	(0040,DB00)

Table 48: Additional Key Object Selection Document Instance Specific Keys- SCP

Description	Tag
Content Date	(0008,0023)
Content Time	(0008,0033)
Observation Date Time	(0040,A032)
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Accession Number	(0008,0050)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Coding Scheme Version	(0008,0103)
>>Code Meaning	(0008,0104)
Concept Name Code Sequence	(0040,A043)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Coding Scheme Version	(0008,0103)
>Code Meaning	(0008,0104)

3.1.3.2.6. SOP Specific Conformance Statement for SOP Class Modality Worklist

DICOM Agent supports the following Modality Worklist Return Keys; Matching Keys are indicated in **bold**

Table 49: Attributes for the Modality Worklist Information Model - Scheduled Procedure Step

Description	Tag
Scheduled Procedure Step Sequence	(0040,0100)
> Scheduled Station AE Title	(0040,0001)
> Scheduled Procedure Step Start Date	(0040,0002)
>Scheduled Procedure Step Start Time	(0040,0003)
> Modality	(0008,0060)
>Scheduled Performing Physician's Name	(0040,0006)
>Scheduled Procedure Step Description	(0040,0007)
>Scheduled Action Item Code Sequence	(0040,0008)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Scheduled Procedure Step ID	(0040,0009)

Table 50: Attributes for the Modality Worklist Information Model- Requested Procedure

Description	Tag
Requested Procedure ID	(0040,1001)
Requested Procedure Description	(0032,1060)
Requested Procedure Code Sequence	(0032,1064)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Study Instance UID	(0020,000D)
Referenced Study Sequence	(0008,1110)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)

Table 51: Attributes for the Modality Worklist Information Model- Imaging Service Request

Description	Tag
Accession Number	(0008,0050)
Requesting Physician	(0032,1032)
Referring Physician's Name	(0008,0090)

Table 52: Attributes for the Modality Worklist Information Model- Visit Identification

Description	Tag
Admission ID	(0038,0010)

Table 53: Attributes for the Modality Worklist Information Model- Visit Status

Description	Tag
Current Patient Location	(0038,0300)

Table 54: Attributes for the Modality Worklist Information Model- Visit Relationship

Description	Tag
Referenced Patient Sequence	(0008,1120)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)

Table 55: Attributes for the Modality Worklist Information Model- Patient Identification

Description	Tag
Patient's Name	(0010,0010)
Patient ID	(0010,0020)

Table 56: Attributes for the Modality Worklist Information Model- Patient Demographic

Description	Tag
Patients Birth Date	(0010,0030)
Patient's Sex	(0010,0040)

Table 56: Attributes for the Modality Worklist Information Model- Patient Demographic

Description	Tag
Confidentiality constraint on patient data	(0040,3001)

Table 57: Attributes for the Modality Worklist Information Model- Patient Medical

Description	Tag
Patient State	(0038,0500)
Pregnancy Status	(0010,21C0)
Medical Alerts	(0010,2000)
Contrast Allergies	(0010,2110)
Special Needs	(0038,0050)
Patient Weight	(0010,1030)

3.1.3.2.7. SOP Specific Conformance Statement for SOP Class General Purpose Worklist

DICOM Agent supports the following General Purpose Worklist Return Keys; Matching Keys are indicated in **bold**

Table 58: Attributes for the General Purpose Worklist Information Model- SOP Common

Description	Tag
Specific Character Set	(0008,0005)
SOP Class UID	(0008,0016)
SOP Instance UID	(0008,0018)

Table 59: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
General Purpose Scheduled Procedure Step Status	(0040,4001)
Input Availability Flag	(0040,4020)
General Purpose Scheduled Procedure Step Priority	(0040,4003)

Table 59: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
Scheduled Procedure Step ID	(0040,0009)
Scheduled Workitem Code Sequence	(0040,4018)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Processing Applications Code Sequence	(0040,4004)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Name Code Sequence	(0040,4025)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Class Code Sequence	(0040,4026)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Station Geographical Location Code Sequence	(0040,4027)
>Code Value	(0008,0100)
>Coding Scheme Designator	(0008,0102)
>Code Meaning	(0008,0104)
Scheduled Procedure Step Start Date and Time	(0040,4005)
Expected Completion Date and Time	(0040,4011)
Scheduled Human Performers Sequence	(0040,4034)
>Human Performer Code Sequence	(0040,4009)

Table 59: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Human Performer's Name	(0040,4037)
>Human Performer's Organization	(0040,4036)
Referenced Study Component Sequence	(0008,1111)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)
Input Information Sequence	(0040,4021)
>Study Instance UID	(0020,000D)
>Referenced Series Sequence	(0008,1115)
>>Series Instance UID	(0020,000E)
>>Retrieve AE Title	(0008,0054)
>>Storage Media File-Set ID	(0088,0130)
>>Storage Media File-Set UID	(0088,0140)
>>Referenced SOP Sequence	(0008,1199)
>>>Referenced SOP Class UID	(0008,1150)
>>>Referenced SOP Instance UID	(0008,1155)
Relevant Information Sequence	(0040,4022)
>Study Instance UID	(0020,000D)
>Referenced Series Sequence	(0008,1115)
>>Series Instance UID	(0020,000E)
>>Retrieve AE Title	(0008,0054)
>>Storage Media File-Set ID	(0088,0130)
>>Storage Media File-Set UID	(0088,0140)
>>Referenced SOP Sequence	(0008,1199)

Table 59: Attributes for the General Purpose Worklist Information Model - General Purpose Scheduled Procedure Step Information

Description	Tag
>>>Referenced SOP Class UID	(0008,1150)
>>>Referenced SOP Instance UID	(0008,1155)
Resulting General Purpose Performed Procedure Step Sequence	(0040,4015)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)
Actual Human Performers Sequence	(0040,4035)
>Human Performer Code Sequence	(0040,4009)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Human Performer's Name	(0040,4037)
>Human Performer's Organization	(0040,4036)
Study Instance UID	(0020,000D)
Multiple Copies Flag	(0040,4006)

Table 60: Attributes for the General Purpose Worklist Information Model- General Purpose Scheduled Procedure Step Relationship

Description	Tag
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Referenced Study Sequence	(0008,1110)
>>Referenced SOP Class UID	(0008,1150)
>>Referenced SOP Instance UID	(0008,1155)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Description	(0032,1060)
>Requested Procedure Code Sequence	(0032,1064)

Table 60: Attributes for the General Purpose Worklist Information Model- General Purpose Scheduled Procedure Step Relationship

Description	Tag
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Accession Number	(0008,0050)
>Requesting Physician	(0032,1032)

Table 61: Attributes for the General Purpose Worklist Information Model- Patient Identification

Description	Tag
Patient's Name	(0010,0010)
Patient ID	(0010,0020)

Table 62: Attributes for the General Purpose Worklist Information Model- Patient Demographic

Description	Tag
Patients Birth Date	(0010,0030)
Patient's Sex	(0010,0040)
Confidentiality constraint on patient data	(0040,3001)

Table 63: Attributes for the General Purpose Worklist Information Model- Patient Medical

Description	Tag
Patient State	(0038,0500)
Pregnancy Status	(0010,21C0)
Medical Alerts	(0010,2000)
Contrast Allergies	(0010,2110)
Special Needs	(0038,0050)
Patient Weight	(0010,1030)

3.1.3.2.8. Presentation Context Acceptance Criterion - Query

DICOM Agent will accept any number of Query Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.2.9. Transfer Syntax Selection Policies - Query

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.3. Real World Activity - Retrieve

3.1.3.3.1. Associated Real World Activity - Retrieve

DICOM Agent will respond with C-MOVE-RSP to retrieve requests. DICOM Agent will initiate an association with the move destination to accomplish the C-STORE sub-operations.

3.1.3.3.2. Acceptable Presentation Context - Retrieve

Table 64: Acceptable Presentation Contexts - Retrieve

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 4	Table 12	SCP	None

3.1.3.3.3. SOP Specific Conformance for SOP Class Retrieve

DICOM Agent returns one of the following status codes to a C-MOVE request.

Table 65: C-MOVE Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
FF00	Pending	Sub Operations are continuing
B000	Warning	Sub Operations Complete - One or more Failures
A701	Refused	Out of Resources.Unable to calculate number of matches
A702	Refused	Out of Resources - Unable to perform sub-operations
A801	Failed	Move Destination Unknown
A900	Failed	Identifier Does Not Match SOP Class
C002	Failed	Unable to process at this time.

3.1.3.3.4. Presentation Context Acceptance Criterion - Retrieve

DICOM Agent will accept any number of Retrieve Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.3.5. Transfer Syntax Selection Policies - Retrieve

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.4. Real World Activity -Storage

3.1.3.4.1. Associated Real World Activity - Storage

DICOM Agent will respond with C-STORE-RSP.

3.1.3.4.2. Acceptable Presentation Context -Storage

Table 66: Acceptable Presentation Contexts - Storage

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 2	Table 12	SCP	None

3.1.3.4.3. SOP Specific Conformance for SOP Class Storage

DICOM Agent returns one of the following status codes to a C-STORE request.

Table 67: C-STORE Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
B007	Warning	Data Set does not match SOP Class
A700	Refused	Out of Resources. No enough storage space.
A900	Failed	Data Set does not match SOP Class
C000	Failed	Cannot understand

3.1.3.4.4. SOP Specific Conformance Statement for SOP Class Grayscale Softcopy Presentation State Storage

Presentation attributes from Modality LUT, VOI LUT, Presentation LUT, Shutter, Pre-Spatial Transformation Annotation, Spatial Transformation, and Post-Spatial Transformation Annotation influence the display of an image referred to by an instance of the Grayscale softcopy Presentation State Storage SOP.

The Image Storage SOP Classes which may be referenced by instances of the Grayscale Softcopy Presentation State Storage SOP are enumerated in Table 2.

3.1.3.4.5. SOP Specific Conformance Statement for SOP Class Basic Text SR

The Image or other composite object Storage SOP Classes which may be referenced by instances of the Structured Reporting Storage SOP are enumerated in Table 2. They will be displayed.

Referenced presentation states will be applied on referenced composite object as specified in the SOP Specific Conformance Statement for SOP Class Grayscale Softcopy Presentation State Storage. Spatial Coordinates attributes will be displayed.

3.1.3.4.6. Presentation Context Acceptance Criterion - Storage

DICOM Agent will accept any number of Storage Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.4.7. Transfer Syntax Selection Policies - Storage

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.5. Real World Activity - Storage Commitment

3.1.3.5.1. Associated Real World Activity - Storage Commitment

DICOM Agent will respond with N-ACTION-RSP to N-ACTION request.

3.1.3.5.2. Acceptable Presentation Contexts - Storage Commitment

Table 68: Acceptable Presentation Contexts - Storage Commitment

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 5	Table 12	SCP	None

3.1.3.5.3. SOP Specific Conformance for SOP Class Storage Commitment

DICOM Agent returns one of the following status codes:

Table 69: N-ACTION Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A900	Failed	Operation failed

DICOM Agent does not support the optional Storage Media File-Set in the N-ACTION. DICOM Agent can be configured to delete SOP instances that are older than a period of time.

3.1.3.5.4. Presentation Context Acceptance Criterion - Storage Commitment

DICOM Agent will accept any number of Storage Commitment Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.5.5. Transfer Syntax Selection Policies - Storage Commitment

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.6. Real World Activity - Modality Performed Procedure Step

3.1.3.6.1. Associated Real World Activity - Modality Performed Procedure Step

DICOM Agent will respond with N-CREATE-RSP to N-CREATE request.
 DICOM Agent will respond with N-SET-RSP to N-SET request.

3.1.3.6.2. Acceptable Presentation Contexts - Modality Performed Procedure Step

Table 70: Acceptable Presentation Contexts - Modality Performed Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 7	Table 12	SCP	None

3.1.3.6.3. SOP Specific Conformance for SOP Class Modality Performed Procedure Step

DICOM Agent returns one of the following status codes:

Table 71: N-CREATE Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A900	Failed	Operation failed

Table 72: N-SET Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A900	Failed	Operation failed

Attribute Values may be provided for all type-1 and type-2 attributes.
 Scheduled Procedure Step information are removed from the Modality Worklist after the corresponding Performed Procedure Step has been discontinued or completed.
 Coercion of attributes is permitted for the patient identification information and the scheduling information.
 Modality Performed Procedure Step SOP Instance life time can be configured.

3.1.3.6.4. Presentation Context Acceptance Criterion - Modality Performed Procedure Step

DICOM Agent will accept any number of Modality Performed Procedure Step Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.6.5. Transfer Syntax Selection Policies - Modality Performed Procedure Step

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.7. Real World Activity - General Purpose Scheduled Procedure Step

3.1.3.7.1. Associated Real World Activity - General Purpose Scheduled Procedure Step

DICOM Agent will respond with N-ACTION-RSP to N-ACTION request.

3.1.3.7.2. Acceptable Presentation Contexts - General Purpose Scheduled Procedure Step

Table 73: Acceptable Presentation Contexts - General Purpose Scheduled Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 9	Table 12	SCP	None

3.1.3.7.3. SOP Specific Conformance for SOP Class General Scheduled Procedure Step

DICOM Agent returns one of the following status codes:

Table 74: N-ACTION Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A501	Failed	Step may no longer be updated
A502	Failed	Wrong Transaction UID
A503	Failed	Step is already in the "IN PROGRESS" state

When a new Instance of the General Purpose Scheduled Procedure Step SOP Class with the status "SCHEDULED" is created, it becomes a work item that can be queried with the General Purpose Worklist SOP Class.

The SCP will not update any General Purpose Scheduled Procedure Step attribute after its state has been set to "IN PROGRESS" or "SUSPENDED" or "DISCONTINUED" or "COMPLETED". A discontinued step is not automatically updated to completed or scheduled. General Purpose Scheduled Procedure Step SOP Instance life time can be configured.

3.1.3.7.4. Presentation Context Acceptance Criterion - General Purpose Scheduled Procedure Step

DICOM Agent will accept any number of General Purpose Scheduled Procedure Step Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.7.5. Transfer Syntax Selection Policies - General Purpose Scheduled Procedure Step

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

3.1.3.8. Real World Activity - General Purpose Performed Procedure Step

3.1.3.8.1. Associated Real World Activity - General Purpose Performed Procedure Step

DICOM Agent will respond with N-CREATE-RSP to N-CREATE request.

DICOM Agent will respond with N-SET-RSP to N-SET request.

3.1.3.8.2. Acceptable Presentation Contexts - General Purpose Performed Procedure Step

Table 75: Acceptable Presentation Contexts - General Purpose Performed Procedure Step

Abstract Syntax	Transfer Syntax	Role	Extended Negotiation
Table 10	Table 12	SCP	None

3.1.3.8.3. SOP Specific Conformance for SOP Class Modality Performed Procedure Step

DICOM Agent returns one of the following status codes:

Table 76: N-CREATE Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A504	Failed	General Purpose Scheduled Procedure Step SOP Instance is not in the "IN PROGRESS" state
A505	Failed	Referenced General Purpose Scheduled Procedure Step Transaction UID does not match the Transaction UID of the N-ACTION request.

Table 77: N-SET Response Status Values

Code	Status	Description
0000	Success	Operation performed properly
A506	Failed	General Purpose Performed Procedure Step SOP Instance is not in the "IN PROGRESS" state

Attribute Values may be provided for all type-1 and type-2 attributes.

General Purpose Scheduled Procedure Step information are removed from the General Purpose Worklist when the corresponding Performed Procedure Step has been started, discontinued or completed.

Coercion of attributes is permitted for the patient identification information and the scheduling information.

General Purpose Performed Procedure Step SOP Instance life time can be configured.

3.1.3.8.4. Presentation Context Acceptance Criterion - General Purpose Performed Procedure Step

DICOM Agent will accept any number of General Purpose Performed Procedure Step Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

3.1.3.8.5. Transfer Syntax Selection Policies - General Purpose Performed Procedure Step

DICOM Agent will select the Transfer Syntax in the order they are shown in Table 12.

4. Communications Profiles

DICOM Agent provides DICOM V3.0 TCP/IP Network Communication Support, as defined in Part 8 of the DICOM standard.

4.1. TCP/IP Stack

DICOM Agent inherits its TCP/IP stack from the computer system upon which it executes.

4.2. Physical Media Support

DICOM Agent is indifferent to the physical medium over which TCP/IP executes; it inherits this from the computer system upon which it executes.

5. Extensions/Specializations/Privatizations

Not applicable.

6. Configuration

DICOM Agent configuration can be modified with a graphical user interface.

7. Support for Extended Character Sets

Extended character sets are not supported in this release.