

DICOM Conformance Statement

IRE Store Channel®

Version 4

Revision Date: March /2010

Document Version 1.2



IRE Rayos X S.A

<http://www.irerayosx.com>

TABLE OF CONTENTS

1	INTRODUCTION	5
1.1	Version History	5
1.2	General Information And Copyright	5
1.3	Related documents	5
2	IMPLEMENTATION MODEL	6
2.1	Application Data Flow Diagram	6
2.2	Functional definitions of ae's	8
2.3	Sequencing of Real-World Activities	8
2.3.1	Storage SCP	8
2.3.2	Storage SCU	8
2.3.3	Modality Worklist SCP	8
2.3.4	MPPS SCP	9
2.3.5	Storage Commitment SCP/SCU	9
2.3.6	Query/Retrieve SCP	9
2.3.7	MEDIA STORAGE	9
3	AE SPECIFICATIONS	10
3.1	IRE Store Channel Specification	10
3.2	STORAGE SCP AE	13
3.2.1	Association Establishment Policies	13
3.2.1.1	General	13
3.2.1.2	Number of Associations	13
3.2.1.3	Asynchronous Nature	13
3.2.1.4	Association Initiation Policy	13
3.2.1.5	Implementation Identifying Information	13
3.2.1.6	Real-World Activity – Storage SCP	13
3.2.1.6.1	Associated Real-World Activity	13
3.2.1.6.2	Acceptable Presentation Context Table	13
3.3	STORAGE SCU AE	22
3.3.1	Association Establishment Policies	22
3.3.1.1	General	22
3.3.1.2	Number of Associations	22
3.3.1.3	Asynchronous Nature	22
3.3.1.4	Implementation Identifying Information	22
3.3.2	Association Initiation Policy	22
3.3.2.1	Real-World Activity – Storage SCU	22
3.3.2.1.1	Associated Real-World Activity	22
3.3.2.1.2	Proposed Presentation Contexts Table	22
3.4	MODALITY WORKLIST SCP AE	30
3.4.1	Association Establishment Policies	31

3.4.1.1	General	31
3.4.1.2	Number of Associations	31
3.4.1.3	Asynchronous Nature	31
3.4.1.4	Association Initiation Policy	31
3.4.1.5	Implementation Identifying Information	31
3.4.1.6	Real-World Activity – Modality Worklist SCP	31
3.4.1.6.1	Associated Real-World Activity	31
3.4.1.6.2	Acceptable Presentation Context Table	31
3.5	MPPS SCP AE	32
3.5.1	Association Establishment Policies	32
3.5.1.1	General	32
3.5.1.2	Number of Associations	32
3.5.1.3	Asynchronous Nature	32
3.5.1.4	Association Initiation Policy	32
3.5.1.5	Implementation Identifying Information	32
3.5.1.6	Real-World Activity – MPPS SCP	32
3.5.1.6.1	Associated Real-World Activity	32
3.5.1.6.2	Acceptable Presentation Context Table	33
3.6	STORAGE COMMITMENT SCP AE	33
3.6.1	Association Establishment Policies	33
3.6.1.1	General	33
3.6.1.2	Number of Associations	33
3.6.1.3	Asynchronous Nature	33
3.6.1.4	Association Initiation Policy	34
3.6.1.5	Implementation Identifying Information	34
3.6.1.6	Real-World Activity – Storage Commitment SCP/SCU	34
3.6.1.6.1	Associated Real-World Activity	34
3.6.1.6.2	Acceptable Presentation Context Table	34
3.7	QUERY/RETRIEVE SCP AE	35
3.7.1	Association Establishment Policies	35
3.7.1.1	General	35
3.7.1.2	Number of Associations	35
3.7.1.3	Asynchronous Nature	35
3.7.1.4	Association Initiation Policy	35
3.7.1.5	Implementation Identifying Information	35
3.7.1.6	Real-World Activity – Query/Retrieve SCP	35
3.7.1.6.1	Associated Real-World Activity	35
3.7.1.6.2	Acceptable Presentation Context Table	36
3.8	MEDIA STORAGE AE	37
3.8.1	Real-World Activities for Media Access	38
3.8.1.1	Media Storage Application Profiles	38
3.8.1.2	SOP Classes and Transfer Syntaxes supported	38
4	COMMUNICATION PROFILES	39
4.1	Supported Communications Stacks	39
4.2	TCP/IP Stack	39
4.2.1	Physical Media Support	39
4.3	Augmented and Private Application Profiles	39

5	EXTENSIONS, SPECIALIZATIONS, AND PRIVATIZATIONS	40
5.1	Extended, Specialized and Private SOP Classes	40
5.2	Private Transfer Syntaxes	40
6	CONFIGURATION	41
6.1	IRE Store Channel Application AE Configuration	41
6.1.1	AE Title and presentation address mapping for IRE Store Channel Application	41
6.1.2	Configurable parameters for IRE Store Channel Application	41
6.2	SUPPORT OF EXTENDED CHARACTER SETS	41

DICOM CONFORMANCE STATEMENT

1 INTRODUCTION

1.1 VERSION HISTORY

Revision	Who	Reason for Change	Changes
00	J.M. Veneroso Benitez	Initial Versión	
1.2	J.M. Veneroso Benitez	Modification to QR Support	

1.2 GENERAL INFORMATION AND COPYRIGHT

The IRE Store Channel server is an archiving application for a DICOM environment. This document describes IRE Store Channel PACS conformance. It can be used to determine whether and up to what degree IRE Store Channel PACS can cooperate with other DICOM applications.

This DICOM Conformance Statement (DCS) specifies its conformance to DICOM V3.0. It contains detailed information about the DICOM Service Classes that are supported by this product. This DCS is formatted similar to the sample template shown in DICOM PS3.2 Annex A.

Please note that this document can be changed at any time without notice. For further information, or the latest version of this document, please contact IRE Rayos X or refer to Web site: <http://www.irerayosx.com>

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1.3 RELATED DOCUMENTS

This implementation is based on the Digital Imaging and Communication in Medicine DICOM® standard documents (NEMA PS 3.1-12, 1993 and following editions).

2 IMPLEMENTATION MODEL

2.1 APPLICATION DATA FLOW DIAGRAM

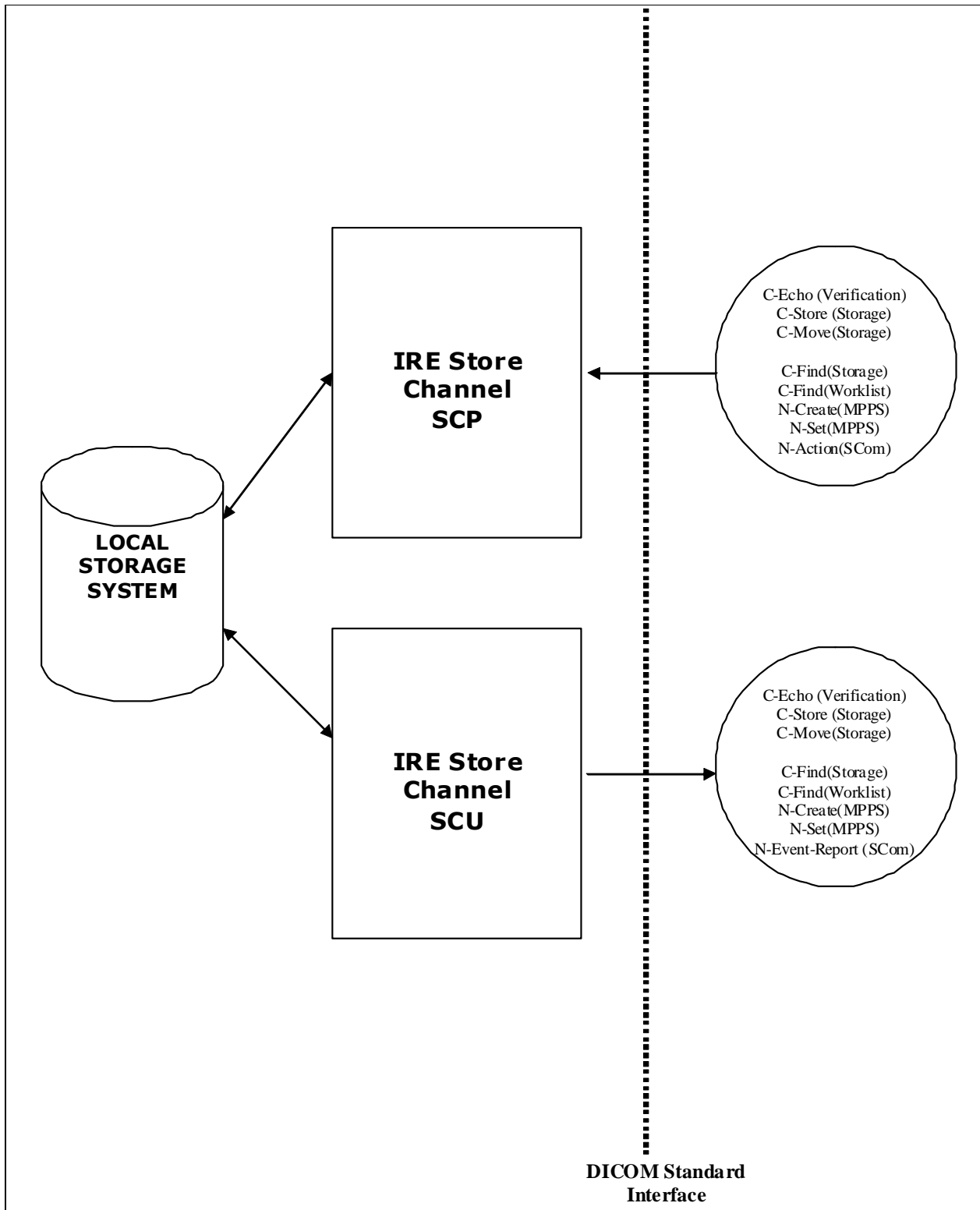
IRE Store Channel is an application running on a dedicated server. It will handle storage and retrieval of images, including searching for them. It can also query other archives for data not contained in its own system.

IRE Store Channel will respond to requests for search, requests for move and request for storage. If necessary, it will issue requests for search and requests for move.

The IRE Store Channel application provides DICOM functionality for the purpose of:

- Network Storage (receive/send images and other composite objects)
- handling of Modality Worklist queries
- handling of Modality Performed Procedure Step requests
- handling of Storage Commitment requests
- handling of Query and Retrieve requests
- Media Storage on Exchangeable Media (read and write).

See following figure for the Application Data Flow Diagram.



2.2 FUNCTIONAL DEFINITIONS OF AE'S

IRE Store Channel waits for another application to connect at the presentation address configured for its Application Entity Title. IRE Store Channel expects any connecting application to be a DICOM application over the TCP/IP protocol stack.

The functions supported by the IRE Store Channel Server application entities are:

SCU	SCP
Verification	Verification
Storage	Storage
Storage Commitment	Query/Retrieve
	Modality Worklist Management
	Modality Performed Procedure Step
	Storage Commitment

2.3 SEQUENCING OF REAL-WORLD ACTIVITIES

2.3.1 Storage SCP

IRE Store Channel can receive images and other DICOM composite objects transmitted over the network from a DICOM Storage SCU Application. Received instances will then be saved in the local storage system and indexed in the database server.

2.3.2 Storage SCU

IRE Store Channel can send images and other DICOM composite objects over the network to a DICOM Storage SCP Application.

This will happen:

- as a consequence of user's interaction
- automatically if auto-routing is configured
- in response to a retrieve request from an authorized remote system

2.3.3 Modality Worklist SCP

IRE Store Channel will receive queries generated by a DICOM Modality Worklist SCU (typically an Acquisition Modality) and will perform the requested query on its internal database. The results of the query will be returned to the SCU (one response for each matching Scheduled Procedure Step).

2.3.4 MPPS SCP

IRE Store Channel will accept Modality Performed Procedure Step requests from a DICOM MPPS SCU.

The SCU will inform IRE Store Channel that a specific Procedure Step has been started (using N-CREATE-RQ messages) and later that this Procedure Step has been completed or discontinued (using N-SET-RQ messages).

2.3.5 Storage Commitment SCP/SCU

IRE Store Channel will accept Storage Commitment requests (N-ACTION-RQ) from a DICOM Storage Commitment SCU.

At a later time and using a different association, IRE Store Channel will inform the SCU that the requested instances have been reliably stored (N-EVENT-REPORT-RQ).

2.3.6 Query/Retrieve SCP

IRE Store Channel will accept Queries (C-FIND-RQ) from a DICOM Query-Retrieve SCU.

IRE Store Channel will accept Retrieve requests (C-MOVE-RQ) from a DICOM Query-Retrieve SCU and will consequently transfer the requested instances using its C-STORE SCU features.

2.3.7 MEDIA STORAGE

IRE Store Channel can read existing images residing on a CD-R and write new images on a CD-R. The IRE Store Channel Application provides a system utility for burning CD-ROMs.

3 AE SPECIFICATIONS

By default here is only one AE : "GATESTORE" The actual name is configurable. However, the IRE Store Channel, for compatibility purpose, will also accept callings to an additional AE Title composed by adding the "WKL" suffix to the main AE Title, ex. "GATESTOREWKL".

3.1 IRE STORE CHANNEL SPECIFICATION

IRE Store Channel provides Standard Conformance to the following DICOM V3.0 SOP Classes and roles.

SOP Class Name	SOP Class UID	SCP	SCU
Verification			
Verification	1.2.840.10008.1.1	x	x
Storage			
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	x	x
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	x	x
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	x	x
Digital Mammography X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.2	x	x
Digital Mammography X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	x	x
Digital Intra-oral X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.3	x	x
Digital Intra-oral X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	x	x
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	x	x
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	x	x
Retired Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3	x	x
Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	x	x
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	x	x
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	x	x
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	x	x
Retired Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.5	x	x
Retired Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6	x	x
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	x	x

Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	x	x
Multi-Frame Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	x	x
Multi-Frame Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	x	x
Multi-Frame Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	x	x
Multi-Frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	x	x
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	x	x
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	x	x
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	x	x
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	x	x
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	x	x
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	x	x
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	x	x
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	x	x
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	x	x
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	x	x
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	x	x
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	x	x
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	x	x
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	x	x
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	x	x
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	x	x
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	x	x
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	x	x
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	x	x
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	x	x
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	x	x
Video Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	x	x
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	x	x
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	x	x

Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	x	x
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	x	x
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	x	x
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	x	x
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	x	x
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	x	x
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	x	x
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	x	x
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	x	x
Standalone PET Curve Storage	1.2.840.10008.5.1.4.1.1.128	x	x
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	x	x
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	x	x
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	x	x
RT Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	x	x
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	x	x
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	x	x
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	x	x
Query / Retrieve			
Patient Root Query/Retrieve Information Model FIND	1.2.840.10008.5.1.4.1.2.1.1	x	x
Patient Root Query/Retrieve Information Model MOVE	1.2.840.10008.5.1.4.1.2.1.2	x	x
Study Root Query/Retrieve Information Model FIND	1.2.840.10008.5.1.4.1.2.2.1	x	x
Study Root Query/Retrieve Information Model MOVE	1.2.840.10008.5.1.4.1.2.2.2	x	x
Patient/Study Only Query/Retrieve Information Model FIND	1.2.840.10008.5.1.4.1.2.3.1	x	x
Patient/Study Only Query/Retrieve Information Model MOVE	1.2.840.10008.5.1.4.1.2.3.2	x	x
Worklist Management			
Modality Worklist Management	1.2.840.10008.5.1.4.31	X	
MPPS			

Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	x	
Worklist Management			
Storage Commitment Push Model	1.2.840.10008.1.20.1	x	x

3.2 STORAGE SCP AE

3.2.1 Association Establishment Policies

3.2.1.1 General

The Storage SCP AE accepts associations from remote DICOM Storage SCU applications. The configuration of IRE Store Channel allows to configure such parameters as Application Entity title, host name, and port number. The maximum accepted PDU sizes will be up to 64 KB (65536 bytes).

The SOP class Extended Negotiation is not supported.

3.2.1.2 Number of Associations

The IRE Store Channel supports multiple associations. By default the maximum number of simultaneous associations that the IRE Store Channel will support when it acts as an SCP is 10.

3.2.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.2.1.4 Association Initiation Policy

Not Applicable.

3.2.1.5 Implementation Identifying Information

The Implementation Class UID is "1.3.6.1.4.1.34289. 4"

The Implementation Version Name "IRESC4"

3.2.1.6 Real-World Activity – Storage SCP

3.2.1.6.1 Associated Real-World Activity

The IRE Store Channel Storage SCP AE has the capability to receive images and other composite objects (f.i. Grayscale Softcopy Presentation States and Key Object Selection Documents), via the Dicom Storage services using the Presentation Contexts defined in the Table shown below, from all the allowed source device(s).

The Storage provider process is listening for incoming instances; when an instance is received, it is stored and indexed locally.

3.2.1.6.2 Acceptable Presentation Context Table

The presentation contexts accepted by the Storage SCP AE are summarized in the following Acceptable Presentation Contexts Table:

Abstract Syntax	Transfer Syntax	Role	Extend
-----------------	-----------------	------	--------

Name	UID	Name	UID		ed Negoc.
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Mammography X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Mammography X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Intra-oral X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

Digital Intra-oral X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Retired Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE

Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Retired Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.5	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Retired Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

Multi-Frame Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			

Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	Implicit VR Little Endian Explicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE

VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
Video Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCP	NONE

Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Standalone PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
RT Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian			

3.2.1.6.2.1 SOP Specific Conformance Statement for the Storage SOP Class

The IRE Store Channel Storage SCP AE conforms to the SOPs of the Storage Service Class at Level 2 (Full).

Private data will be preserved.

3.2.1.6.2.2 Presentation Context Acceptance Criterion

All the above listed presentation contexts will be accepted.

New SOP Class or unlisted Presentation Context will be accepted and stored as they are received.

3.2.1.6.2.3 Transfer Syntax Selection Policies

The Storage SCP AE will place the highest priority on the first syntax listed in the Accepted Presentation Contexts Table above, and decreasing priority on following syntaxes. Different lists of syntaxes and different orders can be configured if necessary.

3.3 STORAGE SCU AE

This Application Entity provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCU:

see table in par.3.3.2.1.2

3.3.1 Association Establishment Policies

3.3.1.1 General

The following DICOM Application Context Name is proposed for all DICOM services:

Application Context Name	1.2.840.10008.3.1.1.1
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The SOP class Extended Negotiation is not supported.

3.3.1.2 Number of Associations

The maximum number of associations initiated by IRE Store Channel acting as Storage SCU is 1.

3.3.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.3.1.4 Implementation Identifying Information

See par. 3.2.1.5

3.3.2 Association Initiation Policy

IRE Store Channel will initiate an association with a DICOM Storage SCP:

- as a consequence of user's interaction
- automatically if auto-routing is configured
- in response to a retrieve request from an authorized remote system

The called and calling AE Titles are configuration dependent.

3.3.2.1 Real-World Activity – Storage SCU

3.3.2.1.1 Associated Real-World Activity

IRE Store Channel has the capability to send images and other DICOM composite objects via the Dicom Storage services using the Presentation Contexts defined in the Table shown below, to all of the selected destination device(s).

3.3.2.1.2 Proposed Presentation Contexts Table

The presentation contexts proposed by the Storage SCU AE are summarized in the following Proposed Presentation Contexts Table:

Abstract Syntax		Transfer Syntax		Role	Extend ed Negoc.
Name	UID	Name	UID		

Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Mammography X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Mammography X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Digital Intra-oral X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

Digital Intra-oral X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Retired Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Ultrasound Multi Frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Retired Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.5	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Retired Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

Multi-Frame Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Multi-Frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE
Video Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Implicit VR Little Endian Explicit VR Little Endian JPEG lossy Baseline Proc 1 JPEG Lossless, Proc 14 RLE lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5	SCU	NONE

Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
Standalone PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		

RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		JPEG lossy Baseline Proc 1	1.2.840.10008.1.2.4.50		
		JPEG Lossless, Proc 14	1.2.840.10008.1.2.4.70		
		RLE lossless	1.2.840.10008.1.2.5		
RT Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

3.3.2.1.2.1 SOP Specific Conformance Statement for the Storage SOP Class

None.

3.4 MODALITY WORKLIST SCP AE

This Application Entity provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP:

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

3.4.1 Association Establishment Policies

3.4.1.1 General

The Modality Worklist SCP AE accepts associations from remote DICOM Modality Worklist SCU applications.

The SOP class Extended Negotiation is not supported.

3.4.1.2 Number of Associations

The IRE Store Channel supports multiple associations. By default the maximum number of simultaneous associations that the IRE Store Channel will support when it acts as an SCP is 10.

3.4.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.4.1.4 Association Initiation Policy

Not Applicable.

3.4.1.5 Implementation Identifying Information

See par. 3.2.1.5

3.4.1.6 Real-World Activity – Modality Worklist SCP

3.4.1.6.1 Associated Real-World Activity

The IRE Store Channel Modality Worklist SCP AE will accept queries generated by a DICOM Modality Worklist SCU (typically an Acquisition Modality) and will perform the requested query on its internal database. The results of the query will be returned to the SCU (one response for each matching Scheduled Procedure Step).

3.4.1.6.2 Acceptable Presentation Context Table

The presentation contexts accepted by the Modality Worklist SCP AE are summarized in the following Acceptable Presentation Contexts Table:

Abstract Syntax		Transfer Syntax		Role	Extended Negot.
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

3.4.1.6.2.1 SOP Specific Conformance Statement for the Modality Worklist SOP Class

None.

3.4.1.6.2.2 Presentation Context Acceptance Criterion

All the above listed presentation contexts will be accepted.

3.4.1.6.2.3 Transfer Syntax Selection Policies

Implicit VR Little Endian is the preferred Transfer Syntax.

3.5 MPPS SCP AE

This Application Entity provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP:

SOP Class Name	SOP Class UID
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3

3.5.1 Association Establishment Policies

3.5.1.1 General

The MPPS SCP AE accepts associations from remote DICOM MPPS SCU applications.

The SOP class Extended Negotiation is not supported.

3.5.1.2 Number of Associations

The IRE Store Channel supports multiple associations. By default the maximum number of simultaneous associations that the IRE Store Channel will support when it acts as an SCP is 10.

3.5.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.5.1.4 Association Initiation Policy

Not Applicable.

3.5.1.5 Implementation Identifying Information

See par. 3.2.1.5

3.5.1.6 Real-World Activity – MPPS SCP

3.5.1.6.1 Associated Real-World Activity

The IRE Store Channel MPPS SCP AE has the capability to receive Modality Performed Procedure Step messages N-CREATE-RQ and N-SET-RQ, using the Presentation Contexts defined in the Table shown below, from all the allowed source device(s).

The SCU will inform IRE Store Channel that a specific Procedure Step has been started (using N-CREATE-RQ messages) and later that this Procedure Step has been completed or discontinued (using N-SET -RQ messages).

IRE Store Channel will update its local database accordingly, keeping track of scheduled and unscheduled Performed Procedure Steps

3.5.1.6.2 Acceptable Presentation Context Table

The presentation contexts accepted by the MPPS SCP AE are summarized in the following Acceptable Presentation Contexts Table:

Abstract Syntax		Transfer Syntax		Role	Extend ed Negot.
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

3.5.1.6.2.1 SOP Specific Conformance Statement for the Storage SOP Class

None.

3.5.1.6.2.2 Presentation Context Acceptance Criterion

All the above listed presentation contexts will be accepted.

3.5.1.6.2.3 Transfer Syntax Selection Policies

Implicit VR Little Endian is the preferred Transfer Syntax.

3.6 STORAGE COMMITMENT SCP AE

This Application Entity provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP:

SOP Class Name	SOP Class UID
Storage Commitment Push Model SOP Class	1.2.840.10008.5.1.20.1

3.6.1 Association Establishment Policies

3.6.1.1 General

The Storage Commitment SCP AE accepts associations from remote DICOM Storage Commitment SCU applications.

The SOP class Extended Negotiation is not supported.

3.6.1.2 Number of Associations

The IRE Store Channel supports multiple associations. By default the maximum number of simultaneous associations that the IRE Store Channel will support when it acts as an SCP is 10.

3.6.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.6.1.4 Association Initiation Policy

Not Applicable.

3.6.1.5 Implementation Identifying Information

See par. 3.2.1.5

3.6.1.6 Real-World Activity – Storage Commitment SCP/SCU

3.6.1.6.1 Associated Real-World Activity

The IRE Store Channel Storage Commitment SCP AE has the capability to receive Storage Commitment requests, using the Presentation Contexts defined in the Table shown below, from all the allowed source device(s).

As soon as possible, IRE Store Channel will query its local database for the existence of the referenced SOP Instances and send a success notification (N-EVENT-REPORT message) to the remote AE if all SOP Instances result as successfully stored. This will be done in a new association.

After selected images (by the user) are successfully sent to a DICOM Storage SCP, a request by IRE Store Channel Storage Commitment SCU for Storage Commitment will be made to the DICOM Storage SCP for the sent images.

3.6.1.6.2 Acceptable Presentation Context Table

The presentation contexts accepted by the Storage Commitment SCP AE are summarized in the following Acceptable Presentation Contexts Table:

Abstract Syntax		Transfer Syntax		Role	Extended Negot.
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP/SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Storage Commitment Push Model SOP Class	1.2.840.10008.5.1.20.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP/SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

3.6.1.6.2.1 SOP Specific Conformance Statement for the Storage Commitment SOP Class

None.

3.6.1.6.2.2 Presentation Context Acceptance Criterion

All the above listed presentation contexts will be accepted.

3.6.1.6.2.3 Transfer Syntax Selection Policies

Implicit VR Little Endian is the preferred Transfer Syntax.

3.7 QUERY/RETRIEVE SCP AE

This Application Entity provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP:

SOP Class Name	SOP Class UID
Patient Root Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.1.1
Patient Root Query/Retrieve- MOVE	1.2.840.10008.5.1.4.1.2.1.2
Study Root Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.2.1
Study Root Query/Retrieve- MOVE	1.2.840.10008.5.1.4.1.2.2.2
Patient/Study Only Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.3.1
Patient/Study Only Query/Retrieve – MOVE	1.2.840.10008.5.1.4.1.2.3.2

3.7.1 Association Establishment Policies

3.7.1.1 General

The Query/Retrieve SCP AE accepts associations from remote DICOM Query/Retrieve SCU applications.

The SOP class Extended Negotiation is not supported.

3.7.1.2 Number of Associations

The IRE Store Channel supports multiple associations. By default the maximum number of simultaneous associations that the IRE Store Channel will support when it acts as an SCP is 10.

3.7.1.3 Asynchronous Nature

Asynchronous mode is not supported.

3.7.1.4 Association Initiation Policy

Not Applicable.

3.7.1.5 Implementation Identifying Information

See par. 3.2.1.5

3.7.1.6 Real-World Activity – Query/Retrieve SCP

3.7.1.6.1 Associated Real-World Activity

The IRE Store Channel Query/Retrieve SCP AE will accept Queries (C-FIND-RQ) from a DICOM Query SCU, using the Presentation Contexts defined in the Table shown below, from all the allowed source device(s).

IRE Store Channel will accept Retrieve requests (C-MOVE-RQ) from a DICOM Retrieve SCU and will consequently transfer the requested instances using its C-STORE SCU features.

3.7.1.6.2 Acceptable Presentation Context Table

The presentation contexts accepted by the Query/Retrieve SCP AE are summarized in the following Acceptable Presentation Contexts Table:

Abstract Syntax		Transfer Syntax		Role	Extend ed Negoc.
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Patient Root Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Patient Root Query/Retrieve- MOVE	1.2.840.10008.5.1.4.1.2.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Study Root Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Study Root Query/Retrieve- MOVE	1.2.840.10008.5.1.4.1.2.2.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Patient/Study Only Query/Retrieve – FIND	1.2.840.10008.5.1.4.1.2.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Patient/Study Only Query/Retrieve – MOVE	1.2.840.10008.5.1.4.1.2.3.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

3.7.1.6.2.1 SOP Specific Conformance Statement for the Query/Retrieve SOP Class

Key Attributes Supported in C-FIND.

Patient Level		
Patient's Name	(0010,0010)	Matching
Patient ID	(0010,0020)	Matching
Patient's Birth Date	(0010,0030)	Matching
Patient's Sex	(0010,0040)	Matching
Patient's Age	(0010,1010)	Matching
Patient's Weight	(0010,1030)	Matching
Study Level		

Study Instance UID	(0020,000D)	Matching
Study ID	(0020,0010)	Matching
Accession Number	(0008,0050)	Matching
Study Date	(0008,0020)	Matching
Modalities In Study	(0008,0061)	Matching
Referring Physician's Name	(0008,0090)	Matching
Study Description	(0008,1030)	Matching
Operator's Name	(0008,1070)	Matching
Institution Name	(0008,0080)	Matching
Requesting Physician	(0032,1032)	Matching
Series Level		
Series Instance UID	(0020,000E)	Matching
Modality	(0008,0060)	Matching
Series Number	(0020,0011)	Matching
Series Description	(0008,103E)	Returned
Body Part Examined	(0018,0015)	Returned
Series Date	(0008,0021)	Returned
Series Time	(0008,0031)	Returned
Image Level		
Instance Number	(0020,0013)	Matching
SOP Instance UID	(0008,0018)	Matching

All Matching Keys are also Returned Keys.

3.7.1.6.2.2 Presentation Context Acceptance Criterion

All the above listed presentation contexts will be accepted.

3.7.1.6.2.3 Transfer Syntax Selection Policies

Implicit VR Little Endian is the preferred Transfer Syntax.

3.8 MEDIA STORAGE AE

The IRE Store Channel provides standard conformance to DICOM Interchange Option of the Media Storage Service Class. The Application Profile and roles are listed below.

Application Profile Supported	Real World Activity	Role	SC Option
STD-GEN-CD	Load request	FSR	Interchange

General Purpose CD-R Image Interchange Profile	Storage request	FSC	Interchange
STD-XABC-CD	Load request	FSR	Interchange
Basic Cardiac X-ray Image Interchange Profile	Storage request	FSC	Interchange

3.8.1 Real-World Activities for Media Access

IRE Store Channel supports the following Real-World Activities:

- Load Request: DICOM SOP Instances are imported from media to the local AE on user request (if the DICOMDIR is not found in the File-set, the CD is not accepted)
- Storage Request: DICOM SOP Instances are exported to CD-R.

3.8.1.1 Media Storage Application Profiles

See table above. There is no exception or specialization. The entire Basic Directory Information Object Model is supported.

3.8.1.2 SOP Classes and Transfer Syntaxes supported

The SOP Classes comply to the standard and allow full support of the referenced application profiles according to the SOP instances that are referenced for Storage Service acceptance.

4 COMMUNICATION PROFILES

4.1 SUPPORTED COMMUNICATIONS STACKS

IRE Store Channel provides DICOM V3.0 TCP/IP Network Communication Support as defined in PS 3.8.

4.2 TCP/IP STACK

IRE Store Channel inherits the TCP/IP stack from the host operating system upon which it executes.

4.2.1 Physical Media Support

IRE Store Channel is indifferent to the physical medium over which TCP/IP executes; it inherits this from the operating system upon which it exists.

4.3 AUGMENTED AND PRIVATE APPLICATION PROFILES

No augmented or private application profiles are supported for this implementation of the Media Storage Service Class.

5 EXTENSIONS, SPECIALIZATIONS, AND PRIVATIZATIONS

5.1 EXTENDED, SPECIALIZED AND PRIVATE SOP CLASSES

No extended, specialized or private SOP Classes are supported.

5.2 PRIVATE TRANSFER SYNTAXES

No private transfer syntaxes are supported.

6 CONFIGURATION

6.1 IRE STORE CHANNEL APPLICATION AE CONFIGURATION

The configuration of IRE Store Channel is stored in the main database system in XML format.

6.1.1 AE Title and presentation address mapping for IRE Store Channel Application

Presentation address mapping are configured in the User Interface. The Host Name, Port Number, and Application Title map an Application Entity (AE) Title to a Presentation Address in TCP/IP for the provider to which you wish to connect.

Note: The host name maps to an IP address as specified by the operating system host table. Port Number 104 is the reserved port on PC systems for standard DICOM connectivity. Any valid port number may be used.

6.1.2 Configurable parameters for IRE Store Channel Application

The following parameters are configurable for this AE (Local):

- Local AE Title
- Local IP Address
- Local Port

The following parameters are configurable for each remote AE:

- Remote AE Title
- Responding TCP/IP Port Number
- Remote IP Address

6.2 SUPPORT OF EXTENDED CHARACTER SETS

The character set used on this system is ISO IR 100