

**RADinfo SYSTEMS'
Scan View System
(RSVS)**

DICOM Conformance Statement

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RADIOLOGY INFORMATION SYSTEMS, INC.

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01	2/15/1996	First preliminary version. All pages at revision 01.
02	3/24/1996	Minor corrections made. All pages at revision 02.
04	9/22/1996	Class A Release
05	3/6/2000	Update of supported DICOM Service Classes
06	12/20/2001	Update of supported DICOM Service Classes
07	11/1/2004	Update of supported DICOM Service Classes
08	10/5/2006	Update of supported DICOM Service Classes
09	12/08/2006	Update of supported DICOM Service Classes
10	4/22/2010	Update of supported DICOM Service Classes

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Preface

1.1 Purpose

The DICOM 3.0 Conformance Statement for the RIS Scan View System (RSVS) specifies the DICOM 3.0 service classes, information objects and communication protocols that RSVS supports.

1.2 Audience

This manual is intended for system administrators who wish to compare the RIS RSVS with similar products in precise terms defined by NEMA standards. We assume that you are familiar with the DICOM protocol.

1.3 Structure

This manual is written and formatted in accordance with the NEMA Standards DICOM Conformance Statement Template.

1.4 Related Publications

The following publications contain more information.

Publications	Number
Digital Imaging and Communications in Medicine (DICOM), Part 2: Conformance	NEMA Standards Publication PS3.2
RIS Scan View System (RSVS) User's Guide	RIS-10169601

1.5 Acronyms

The following acronyms and abbreviations are used in this manual.

ACR-NEMA	American College of Radiology and National Electrical Manufacturer's Association
AE	application entity
ANSI	American National Standards Institute
API	application programming interface
CT	computed tomography
DICOM	digital imaging and communications in medicine
DIMSE	DICOM message service element
RSVS	RIS Scan View System
LAN	local area network
MRI	magnetic resonance imaging
NM	nuclear medicine

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SC	secondary captured (scanned image)
SCP	service class provider
SCU	service class user
SOP	service-object pair
TCP/IP	transmission control protocol/internet protocol
UID	unique identifier
US	ultrasonic
WAN	wide area network

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Introduction

Radiology Information Systems' (RADinfo SYSTEMS') Scan View System (RSVS) is application software that converts traditional X-ray film into a digital image and sends/receives the image to/from any other DICOM workstation. RSVS combines the industry's leading film digitizers with a PC-based Image Quality and Reformation Station. This combination provides a cost-effective means to scan film studies of CT, MRI and X-ray images, convert them to digital images, include patient information, reformat images into the DICOM 3.0 format and then send these images anywhere they are needed along the network to a physician review station or to an image management or archive system. RSVS also provides the functionality to review and control image quality, create Presentation State objects or organize images with Key Image Notes.

In scanning medical images, RSVS provides the following capabilities:

- Provide DICOM 3.0 compliant storage service class for scanned/received images.
- Provide a graphical user interface (GUI) to administrative utilities that manage scanner stations and user permission for the scanning systems.
- Provide a graphical user interface (GUI) to monitor scan process that keeps track of operating status of the scan system.
- Provide image manipulation routines to ensure the quality of scanned images.
- Provide DICOM image-formatting utilities to generate type 1 or type 2 DICOM image data set attributes.

In reviewing medical images, RSVS provides the following functions.

- Provide DICOM 3.0 compliant storage and query/retrieve SCPs. Allow a peer DICOM node to send and retrieve images and other DICOM objects to and from it for review purposes.
- Provide DICOM Query/Retrieve SCU. Allow the user to retrieve images and other DICOM objects from a peer DICOM node for review purposes.
- Provide measurement and annotation tools. Allow the user to save the measurement, bitmap overlay and annotation along with the information of customized window/level, display orientation, display area and shutter to a DICOM Grayscale Softcopy Presentation State object.
- Provide graphic interface to allow the user to create Key Image Notes objects, and send these images to a peer DICOM node. Allow the user to display a Key Image Notes object along with images associated with this object.
- Provide DICOM Part 10 Media Read service. Allow the user to read DICOM data from a DICOM portable media and display its contents.

This document describes RSVS conformance with DICOM 3.0 standard. Refer to the *RADinfo Scan View System User's Guide* for detailed documentation of system operation.

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Implementation Model

RSVS provides echo, query/retrieve and storage services for DICOM 3.0 standard images using C-ECHO, C-FIND, C-GET and C-MOVE and C-STORE DIMSE-C service. RSVS also provides DICOM Part 10 media read service.

1.6 APPLICATION DATA FLOW DIAGRAM

Figure 1 is the data flow diagram for the RSVS application.

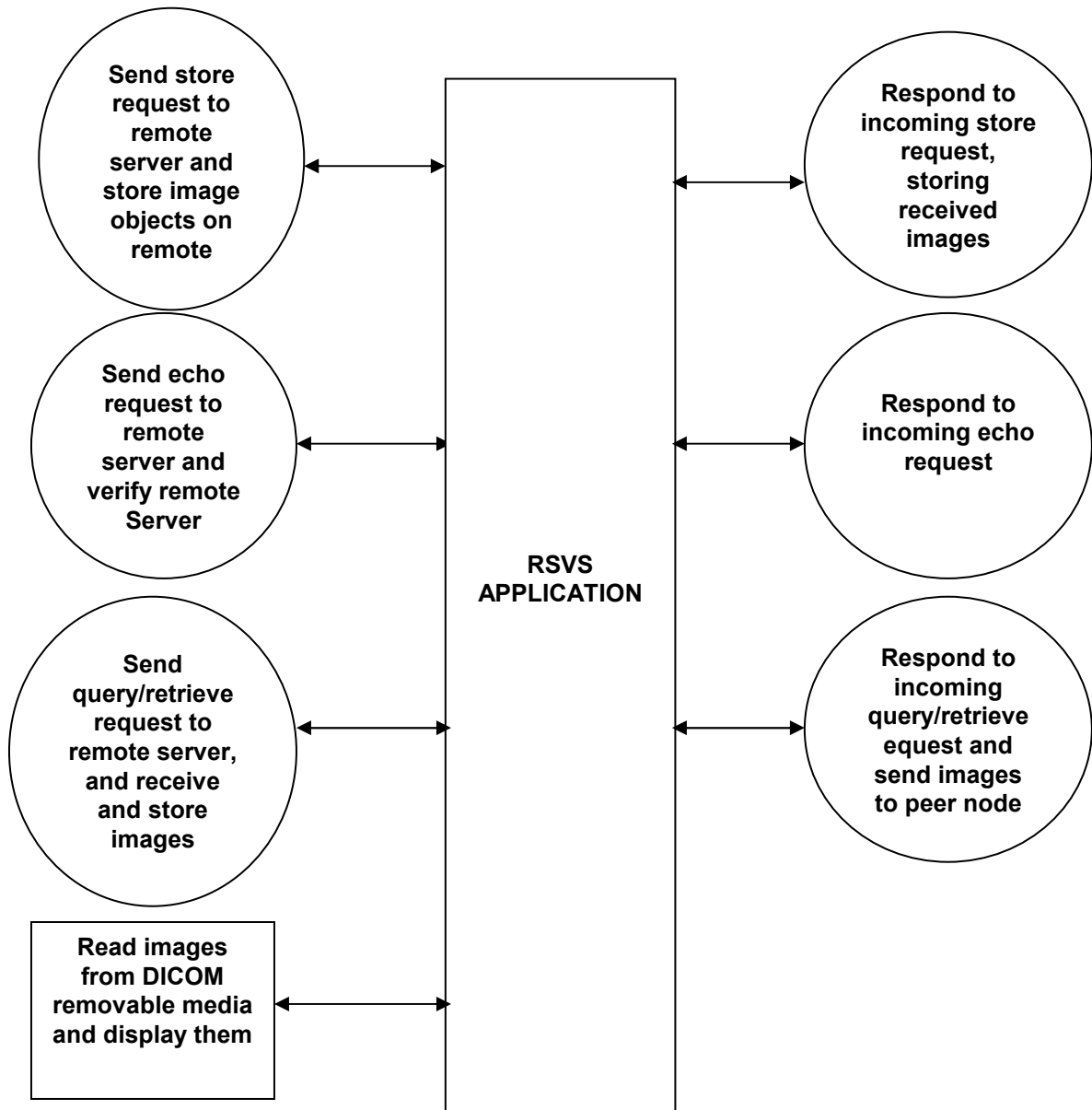


Figure 1. Application Data Flow Diagram

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When the user requests a store service, RSVS initiates a DICOM association request to specified peer node. When the association is established, RSVS sends DICOM storage instances to the peer node with C-STORE service. When the user issues an echo request, RSVS initiates a DICOM association request and verifies availability of the specified remote node in the established association. When the user wants to query and retrieve DICOM objects from a peer node, RSVS tries to establish a DICOM association with the peer node, and issues query/retrieve C-FIND, C-GET and/or C-MOVE requests to the peer node in order to retrieve desired DICOM objects from the specific peer node. When an incoming DICOM association request is received, RSVS creates a dedicated thread to handle the association. In the association, RSVS responds to a storage request and stores the received DICOM objects to a local storage media; RSVS issues an echo response to the echo request initiator in response to a C-ECHO request; RSVS responds to a query/retrieve C-FIND request with a set of responses that carry the information of all objects matched with the query criteria; RSVS responds to a query/retrieve C-GET or C-MOVE request with a set of C-STORE sub-operations and delivers matched DICOM objects to the requester.

1.7 FUNCTIONAL DEFINITION OF THE RSVS APPLICATION ENTITY

RSVS issues a DICOM association request for storage service after the image is scanned and validated. When the association is established between RSVS and a storage service provider, RSVS starts sending the image data to the storage service provider.

When a DICOM association request for storage service is received, RSVS will validate the request and issue association acknowledgement to the initiator. When the association is established, RSVS acts as C-STORE SCP and receives and stores image objects.

RSVS initiates a DICOM association request for the query/retrieve service in response to user's request. In the association, RSVS may issue one or more C-FIND requests to the peer node, depending upon the actual query criteria chosen by the user. RSVS may issue one or more C-MOVE or C-GET requests to the peer node in order to retrieve a desired set of DICOM objects.

In a DICOM association, when RSVS receives a query/retrieve C-FIND request from the peer node, it will search through its local storage with the query criteria. It will send one or more C-FIND responses, which carry the query result, to the peer node. When RSVS receives a query/retrieve C-GET or C-MOVE request from the peer node, it will match the data in its local storage against the query criteria. When matched DICOM objects are found, it will perform C-STORE sub-operations to send images to desired destination.

1.8 SEQUENCING OF REAL-WORLD ACTIVITIES

Not applicable.

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Application Entity Specification

1.9 AE SCAN VIEW SYSTEM SCANNER – SPECIFICATION

RSVS provides standard conformance to the DICOM 3.0 Secondary Capture image storage service object pair class listed in Table 1 as a C-STORE SCU and SCP.

Table 1. Conformance to SOP Class as an SCP and SCU

SOP Class Name	SOP Class UID
Image Storage SOP Classes	See 2.1.2.1.1 for details
Verification	1.2.840.10008.1.1
Query/Retrieve SOP Classes	See 2.1.2.1.1 for details

1.9.1 Association Establishment Policy

1.9.1.1 *General*

The DICOM application context is 1.2.840.10008.3.1.1.1. The maximum PDU size that can be transmitted by RSVS is 8192 bytes.

1.9.1.2 *Asynchronous Nature*

RSVS does not support asynchronous operations and does not perform asynchronous window negotiation.

1.9.1.3 *Implementation Identifying Information*

RSVS provides an implementation class UID, which is 1.2.840.999999.2.3.1996.10.26
RSVS provides an implementation version name of RSVS26OCT96.

1.9.2 Association Initiation Policy

RSVS attempts to initiate one association (C-STORE request) in response to each send command entered by the local user to send a scanned image to a destination node.

RSVS also has a dedicated task thread to accept incoming C-STORE requests.

1.9.2.1 *Associated Real-World Activity – Store an Image in a Destination Node*

The associated real-world activity is a C-STORE request invoked by the RSVS application. Once the association is successfully established, the scanned image is

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transferred from the RSVS station to a destination DICOM node that is assigned to store the images.

1.9.2.2 *Associated Real-World Activity – Receive an Image from a Destination Node*

When an association request for storage is received, RSVS will issue the association acknowledgement. Once the association is established, RSVS will act as C-STORE SCP, receive the images, and store them in local storage.

1.9.2.3 *Associated Real-World Activity – Query Image Information from a Destination Node*

The associated real-world activity is a set of C-FIND requests invoked by the RSVS application. A DICOM association is established for a series of C-FIND requests. The actual combination of the C-FIND requests is determined by the detailed operation on the remote worklist, which is interactive with the end user. When the information of remote images is received with the C-FIND requests, the information will be populated in the remote worklist.

1.9.2.4 *Associated Real-World Activity – Retrieve Image Data from a Destination Node*

The associated real-world activity is a set of C-GET or C-MOVE requests invoked by the RSVS application. When a list of images in the remote worklist is selected for display or retrieval, a dedicated DICOM association will be established. A set of C-GET or C-MOVE requests is initiated by the RSVS application in this association. When the C-GET or C-MOVE request is successfully carried out, C-STORE sub-operations will deliver image data to RSVS from the remote server.

1.9.2.5 *Associated Real-World Activity – Receive a Query Request from a Remote Node*

When an association request for the query request is received, the RSVS application responds with an association acknowledgement. After the association is established, the remote node, acting as the query/retrieve SCU, sends the C-FIND request to RSVS. RSVS searches for matches in the local media storage with query criteria keys. It returns C-FIND responses, one for each match, followed by a final C-FIND response with status not equal to PENDING.

1.9.2.6 *Associated Real-World Activity – Receive a Retrieve Request from a Remote Node*

After an association for the query/retrieve request is established, RSVS receives a C-GET or C-MOVE request from the remote node. RSVS uses the criteria keys encoded in the identifier data set carried by the C-GET or C-MOVE request to search for matches in its local image data storage. It initiates C-STORE sub-operations with C-STORE requests,

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one for each match, to deliver the matched image data to the destination node. Lastly, the RSVS application sends a final C-GET or C-MOVE response with a non-pending status to the remote node.

1.9.2.7 Proposed Presentation Contexts

RSVS supports the presentation context shown in Table 2.

Table 2. Presentation Context Table Syntax

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	ID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP/SCU	None
CR Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP/SCU	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
		CT Image Storage	1.2.840.10008.5.1.4.1.1.2		
Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1				
JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50				
JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51				
JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57				
JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70				
JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90				
JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91				

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		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		

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		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		

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		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		

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		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage	1.2.840.10008.5.1.4.1.1.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital Mammography X-Ray Image Storage	1.2.840.10008.5.1.4.1.1.1.2	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		

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		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital Intra-oral X-Ray Image Storage	1.2.840.10008.5.1.4.1.1.1.3	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		

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		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital Intra-oral X-Ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
X-Ray RF Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		

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		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		

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		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		

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		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Ophthalmic Photography 16 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.2	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.4	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		JPEG Baseline (Process 1) Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50		

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		JPEG Extended (Process 2 & 4) for Lossy JPEG 12 Bit Image Compression	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]):	1.2.840.10008.1.2.4.70		
		JPEG 2000 Image Lossless Compression	1.2.840.10008.1.2.4.90		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		RLE Lossless	1.2.840.10008.1.2.5		
12-Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Grayscale Softcopy Presentation State	1.2.840.10008.5.1.4.1.1.11.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Basic Text Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.11	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Enhanced Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.22	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Key Object Selection Document Storage	1.2.840.10008.5.1.4.1.1.88.59	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Patient Root Query/Retrieve –	1.2.840.10008.5.1.4.1.2.1.1	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP/SCU	None

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FIND		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Patient Root Query/Retrieve – GET	1.2.840.10008.5.1.4.1.2.1.3	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP/SCU	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	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 Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
Study Root Query/Retrieve – GET	1.2.840.10008.5.1.4.1.2.2.3	Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU/SCP	None
		Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1		

1.9.2.8 SOP Specific Conformance

1.9.2.8.1 SOP Specific Conformance for Store SOP Class

Type 1 and Type 2 attributes are included by default in the DICOM SC image data set. The user can edit/modify all of these attributes. RSVS provides a Type 1 and Type 2 check on the SC image DICOM data set before the C-STORE service. If errors are found during the check, RSVS will invoke the user to correct the errors.

1.9.2.8.2 SOP Specific Conformance for Verify SOP Class

RSVS implements standard conformance to the DICOM verification service class.

1.9.2.8.3 SOP Specific Conformance for Query/Retrieve SOP Class

In the query/retrieve SCP, RSVS provides query criteria keys listed in Table 3.

Table 3. Query/Retrieve Keys

Tag	Attribute Name	Level	Supported Match Types
0010, 0010	Patient Name	Patient	Wild card, universal, exact match
0010, 0020	Patient ID	Patient	Wild card, universal, exact match, list
0010, 0030	Patient Date of Birth	Patient	Universal, exact match, range
0010, 0040	Patient Sex	Patient	Universal, exact match
0020, 1200	Total Studies in the Patient	Patient	Universal

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0020, 1202	Total Series in the Patient	Patient	Universal
0020, 1204	Total Images in the Patient	Patient	Universal
0008, 0020	Study Date	Study	Universal, exact match, range
0008, 0030	Study Time	Study	Universal, exact match, range
0008, 0050	Accession Number	Study	Wild card, universal, exact match
0008, 1030	Study Description	Study	Wild card, universal, exact match
0020, 000D	Study Instance UID	Study	Universal, exact match, list
0020, 0010	Study ID	Study	Wild card, universal, exact match
0020, 1206	Total Series in the Study	Study	Universal
0020, 1208	Total Images in the Study	Study	Universal
0008, 0060	Modality	Series	Universal, exact match, list
0020, 000E	Series Instance UID	Series	Universal, exact match, list
0020, 0011	Series Number	Series	Wild card, universal, exact match
0020, 1209	Total Images in the Series	Series	Universal
0008, 0018	SOP Instance UID	Image	Universal, exact match, list
0020, 0013	Image Number	Image	Wild card, universal, exact match

When RSVS uses its query/retrieve SCU to query a peer node, it may start at either Patient Root or Study Root, depending on the initial query criteria. When its list control in its GUI is populated with the items received in the C-FIND responses, RSVS may or may not automatically query the lower levels of the listed items to automatically populate all descending items. If the descending items are not automatically populated, RSVS will issue additional C-FIND requests when the user tries to expand a top-level (i.e., patient level or study level) item. These C-FIND requests will query the information of the descending items of the expanded top-level item.

1.9.3 Private Attributes in the Raw Data IOD

The private attributes in raw data implemented in RSVS are listed in Table 4.

Table 4. The Private Attributes Used in Raw Data

Description	Tag	VR	Notes
Private Creator Element	8801,00F3	LO	
Raw Data Offsets	8801,F301	IS	May have multiple values. Each value specifies an offset of a block of encapsulated raw data. The offset value refers the offset from the beginning of the data field of the Raw Data (8801,F3FF) attribute to the beginning of the data block. The first block starts at offset 0.
Raw Data Sizes	8801,F302	IS	May have multiple values. These values specify the sizes of encapsulated raw data blocks.
Raw Data Name	8801,F310	LO	

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Raw Data Description	8801,F330	LO	
Raw Data Type	8801,F340	SH	
Comments	8801,F3F0	LO	
Raw Data Date	8801,F324	DA	
Raw Data Time	8801,F334	TM	
Raw Data	8801,F3FF	OB	

1.9.4 Media Read Service

RSVS supports all DICOM storage classes listed in Table 1. In addition, RSVS can import a Structured Report from a removable disk, and send it to a remote DICOM node.

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Communication Profiles

1.10 TCP/IP

RSVS uses the TCP/IP stream socket from Microsoft WinSocket.

1.11 PHYSICAL MEDIA SUPPORT

RSVS provides no restriction on the physical network. RSVS can operate using TCP/IP over Ethernet (Thick Wire, Thin Wire, 10 BasT), FDDI (twisted pair into a concentrator, fiber backbone), and commercial telephone network.

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Support of Extended Character Sets

RSVS presently provides no support for extended character sets.