

Customer Information Bulletin

Title

DICOM Conformance Statement

Scope

Rogan OnLine XS Archiver

Target Group

Service Engineers

How To Contact

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1 Introduction

1.1 Revision History

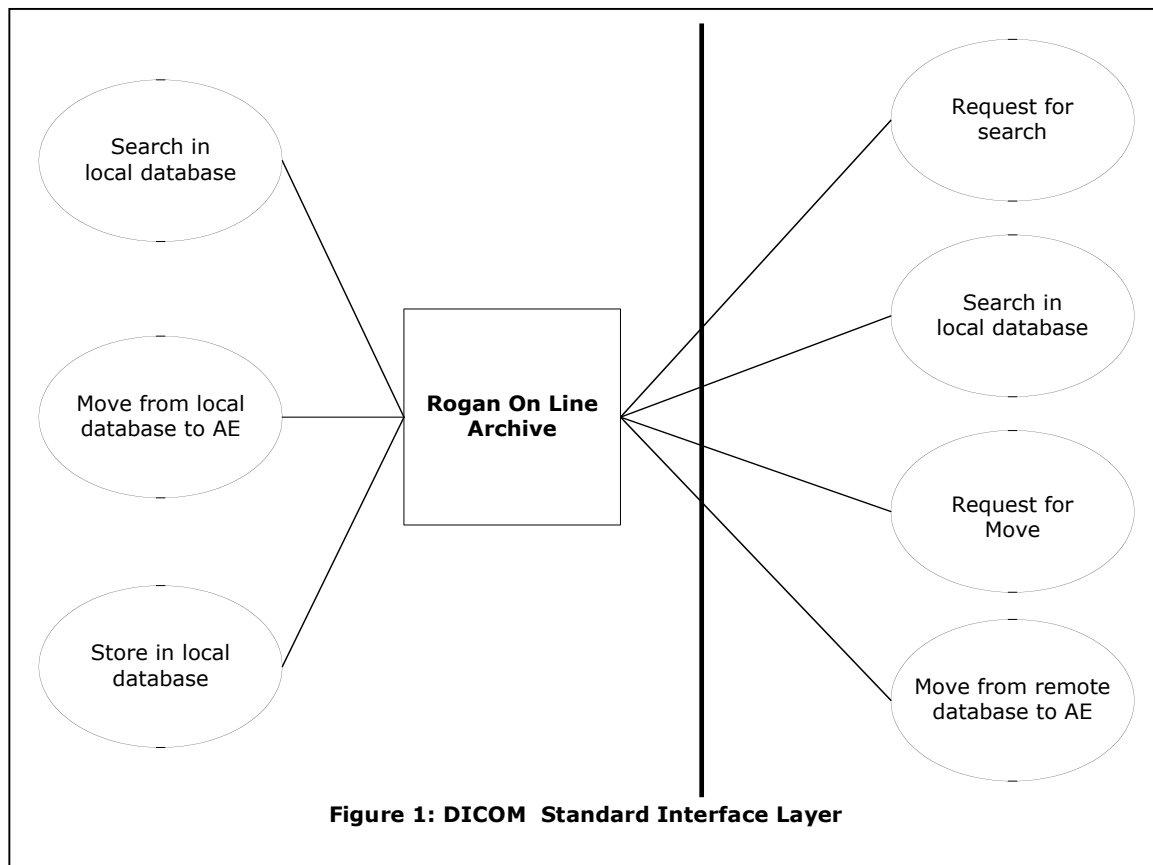
Revision	Who	Reason for Change	Changes
00	W.H. Philipse	Initial Version	
01	W.H. Philipse	Update for Version 5.0.	
02	W.H. Philipse	Update for Version 5.5 (+SP1)	
03	W.H. Philipse	Update for Version 6.0	

1.2 Audience

This document is addressed to Service Engineers that may be involved in the installation of this product or the validation of the DICOM interoperability.

1.3 Product

Rogan OnLine XS Archiver is an archiving application for a DICOM environment. This document describes Rogan OnLine XS Archiver's DICOM conformance. It can be used to determine whether and up to what degree Rogan OnLine XS Archiver can cooperate with other DICOM applications. Please note that this product will continue to evolve, and that new additions may be available. For the latest details on connectivity for this product, please contact your reseller for more information.



2 Implementation Model

2.1 Application Data Flow Diagram

Rogan OnLine XS Archiver 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.

Rogan OnLine XS Archiver 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.

2.2 Functional Definition of AE

Rogan OnLine XS Archiver waits for another application to connect at the presentation address configured for its Application Entity Title. Rogan OnLine XS Archiver expects any connecting application to be a DICOM application.

Rogan OnLine XS Archiver will accept associations with Presentation Contexts for SOP Classes of the Storage Service Class. It will receive images on these Presentation Contexts and archive them.

Rogan OnLine XS Archiver will accept associations with Presentation Contexts for SOP Classes of the Query/Retrieve Class. It will accept queries on these Presentation Contexts and return information on the stored images, or it will move the images to another application.

If these queries refer to unknown images, Rogan OnLine XS Archiver can query other DICOM AE's where these images may be stored.

3 AE Specifications

By default here is only one AE, Rogan OnLine XS Archiver. The actual name is configurable. It is possible to associate two additional AE Titles (by default: RED and YELLOW) with storing of high- and medium-priority images. The effect is that the associated studies are visible from Rogan View Pro as high or medium priority.

3.1 Rogan OnLine XS Archiver Specification

OnLine XS Archiver provides Standard Conformance to the following DICOM V3.0 SOP Classes:

SOP Class Name:	SOP Class UID	SCU	SCP
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
SOP Class Name:	SOP Class UID	SCU	SCP
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
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
SOP Class Name:	SOP Class UID	SCU	SCP
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
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	x	x
Storage Commitment Push Model	1.2.840.10008.1.20.1	x	x

3.1.1 Association Establishment Policies

3.1.1.1 General

Rogan OnLine XS Archiver is able to establish associations and to accept requested associations. The PDU size is unlimited.

3.1.1.2 Number of Associations

Rogan OnLine XS Archiver can accept any number of associations, only limited by physical resources like memory and disk space.

3.1.1.3 Asynchronous Nature

Rogan OnLine XS Archiver does not support asynchronous communication.

3.1.1.4 Implementation Identifying Information

The Implementation Version Name is ROGAN_DICOM_203

The Implementation Class UID is 1.2.528.1.1008.0.203

The current version name is Rogan OnLine XS Archiver 6.0

3.1.2 Association Initiation Policy

Rogan OnLine XS Archiver will initiate an association with an AE that acts as a secondary data location when it receives a Find or a Move request.

Rogan OnLine XS Archiver will initiate an association with an AE that is specified as the move destination when it receives a Query or a Move request.

Rogan OnLine XS Archiver will initiate an association with an AE that is specified as a routing destination in the Rogan OnLine XS Archiver configuration.

Rogan OnLine XS Archiver will initiate an association with an AE that has previously sent a Storage Commit N-ACTION request, in order to send it the Storage Commit N-EVENT-REPORT.

Rogan OnLine XS Archiver will initiate an association with an AE in order to send it a Storage Commit N-ACTION request, in order to confirm the storage of images that it has previously sent to that AE.

Rogan OnLine XS Archiver will initiate an association with an AE in order to send it a Modality Performed Procedure Step N-CREATE or N-SET request, if that AE has been configured as peer IHE PPS Manager and a modality has just been sending an MPPS message to Rogan OnLine XS Archiver.

3.1.2.1 Find Request

3.1.2.1.1 Associated Real-World Activity

Rogan OnLine XS Archiver receives a Find request, commonly from an AE that acts as a viewing station, where it is generated by a user. It responds by sending a Find request to secondary storage locations, querying its own database and returning the combined results.

3.1.2.1.2 Proposed Presentation Contexts

The following Presentation Contexts may be proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Patient Root Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Study Root Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
Patient / Study Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none

3.1.2.1.2.1 SOP Specific Conformance to the Supported Query SOP Classes

Priority processing is not supported.

3.1.2.2 Move Request

3.1.2.2.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Move* request, commonly from an AE that acts as a viewing station, where it is generated by a user. If the image is not within the Rogan OnLine XS Archiver system, a *Move* request will be sent to a secondary storage location.

3.1.2.2.2 Proposed Presentation Contexts

The following Presentation Contexts may be proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Patient Root Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Study Root Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Patient / Study Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none

3.1.2.2.2.1 SOP Specific Conformance to the Supported Move SOP Classes

Priority processing is not supported.

3.1.2.3 Store Request

3.1.2.3.1 Associated Real-World Activities

1. Rogan OnLine XS Archiver receives a *Move* request, commonly from an AE that acts as a viewing station, where it is generated by a user. Rogan OnLine XS Archiver sends the images through a *C-STORE* command to the destination AE as specified in the *Move* request.
2. A periodic task is activated and, based on configurable criteria, decides to store a subset of recently received images to one or more Storage SCP's.

3.1.2.3.2 Proposed Presentation Contexts

The following table lists the Presentation Contexts that may be proposed. They will never be presented all at once. The default behaviour is to present Implicit VR LE and Explicit VR LE in one context. If Rogan OnLine XS Archiver knows that the SCP supports Lossless JPEG, it will propose Lossless JPEG in another context for those Storage SOP Classes that actually contain Pixel Data. One can define per Storage SCP which Transfer Syntaxes must be negotiated. For example, if the configuration item of the storage SCP has a "SendSyntax" property with values "LOSSLESS", "EXPLICIT", then for each Storage SOP Class a PC with Explicit VR LE will be proposed, and for Storage SOP Classes with pixels another PC with Lossless JPEG will be proposed.

Abstract Syntax		Transfer Syntax		Role	Ext. Negotiation
Name	UID	Name	UID		
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Explicit VR JPEG Lossless	1.2.840.10008.1.2.4.70	SCU	none

		Default			
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Explicit VR JPEG	1.2.840.10008.1.2.4.70	SCU	none

		Lossless Default			
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
RT Beams Treatment	1.2.840.10008.5.1.4.1.1.481.4	DICOM Implicit	1.2.840.10008.1.2	SCU	none

Record Storage		VR Little Endian			
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	DICOM Implicit VR Little	1.2.840.10008.1.2	SCU	none

		Endian			
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Stored Print Storage	1.2.840.10008.5.1.1.1.27	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Stored Print Storage	1.2.840.10008.5.1.1.1.27	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Stored Print Storage	1.2.840.10008.5.1.1.1.27	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Explicit VR Little	1.2.840.10008.1.2.1	SCU	none

		Endian			
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Multiframe Grayscale Word Secondary Capture	1.2.840.10008.5.1.4.1.1.7.3	DICOM Implicit VR Little	1.2.840.10008.1.2	SCU	none

Image Storage		Endian			
Multiframe Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Multiframe Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	DICOM Explicit VR Little	1.2.840.10008.1.2.1	SCU	none

		Endian			
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCU	none

3.1.2.3.2.1 SOP Specific Conformance to the Supported Store SOP Classes

If Rogan OnLine XS Archiver knows that the SCP accepts Lossless JPEG, it will store SOP Instances with pixels using that transfer syntax. SOP Instances without pixels are stored through the Implicit or Explicit Little Endian syntax, whichever was accepted by the SCP. If the SCP is able to accept Explicit VR, but somehow always accepts Implicit VR, it is possible through configuration to omit the proposal of Implicit VR for that SCP.

3.1.2.4 Storage Commit Request

3.1.2.4.1 Associated Real-World Activity

Rogan OnLine XS Archiver has just stored a number of images on a Routing Destination, and it has been configured to request Storage Commit for those images. It opens an association with the Storage Commit AE associated with that destination (which does not have to be the same AET) and sends out the appropriate N-ACTION request. This is retried indefinitely.

3.1.2.4.2 Proposed Presentation Context

The following Presentation Context may be proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Storage Commit	1.2.840.10008.1.20.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

3.1.2.4.2.1 SOP Specific Conformance to the Storage Commit SOP Class

Priority processing is not supported.

3.1.2.5 Storage Commit Response

3.1.2.5.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Storage Commit* request, commonly from a Modality that has acquired images, where it is generated by a user. Rogan OnLine XS Archiver will open a new association with the modality (whose AE title must be known and mapped to an IP/port combination in the configuration) and report the status through an N-EVENT-REPORT message. If the modality does not respond, the message is kept, and Rogan OnLine XS Archiver periodically tries to resend it until it has been acknowledged by the modality.

3.1.2.5.2 Proposed Presentation Context

The following Presentation Context may be proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Storage Commit	1.2.840.10008.1.20.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

3.1.2.5.2.1 SOP Specific Conformance to the Storage Commit SOP Class

Priority processing is not supported.

3.1.2.6 Modality Performed Procedure Step

3.1.2.6.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Modality Performed Procedure Step* message, commonly from a Modality that has acquired images, where it is generated by a user. If Rogan OnLine XS Archiver has been configured to pass such messages through to other systems (as is required for the IHE actor *Performed Procedure Step Manager*), Rogan OnLine XS Archiver will open an association with each configured system (DSS/OF, Report Manager) (whose AE titles must be known and mapped to an IP/port combination in the configuration) and forward the message it has just received.

If the destination does not respond, the message is kept, and Rogan OnLine XS Archiver periodically tries to resend it until it has been acknowledged by the destination.

3.1.2.6.2 Proposed Presentation Context

The following Presentation Context may be proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none

3.1.2.6.2.1 SOP Specific Conformance to the Storage Commit SOP Class

None.

3.1.3 Association Acceptance Policy

Rogan OnLine XS Archiver will accept an association from any DICOM AE. But the Presentation Contexts that are offered may be different for each AE.

3.1.3.1 Store Request

3.1.3.1.1 Real-world Activity Associated with Store Request

A remote AE wants to store an image on the Rogan OnLine XS Archiver, either automatically or on request of a user.

3.1.3.1.2 Proposed Presentation Contexts

The following Presentation Contexts will be accepted by Rogan OnLine XS Archiver when receiving a Store request from an AE that is configured as one that is allowed to store images:

Abstract Syntax		Transfer Syntax		Role	Ext. Negotiation
Name	UID	Name	UID		
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital Intra-oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital Intra-oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital Mammography X-Ray Image Storage - For	1.2.840.10008.5.1.4.1.1.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none

Presentation					
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
PET Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Nuclear Medicine Image Storage (retired)	1.2.840.10008.5.1.4.1.1.5	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Ultrasound Multiframe Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
X-Ray Angiographic Bi-Plane Image Storage (retired)	1.2.840.10008.5.1.4.1.1.12.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

		Endian			
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Stored Print Storage	1.2.840.10008.5.1.1.27	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Stored Print Storage	1.2.840.10008.5.1.1.27	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Stored Print Storage	1.2.840.10008.5.1.1.27	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Explicit VR JPEG Lossless	1.2.840.10008.1.2.4. 70	SCP	none

		Default			
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
VL Slide Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
X-Ray Fluoroscopy Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none

Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Mammography CAD SR	1.2.840.10008.5.1.4.1.1.88.50	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Multiframe Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Multiframe Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none
Multiframe Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Multiframe Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Multiframe Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4. 70	SCP	none

Storage					
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Multiframe True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	DICOM Implicit 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	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Twelve Lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Ambulatory ECG	1.2.840.10008.5.1.4.1.1.9.1.3	DICOM Explicit	1.2.840.10008.1.2.1	SCP	none

Waveform Storage		VR Little Endian			
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	none
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	DICOM Explicit VR JPEG Lossless Default	1.2.840.10008.1.2.4.70	SCP	none

3.1.3.1.2.1 SOP Specific Conformance to the SOP Storage Classes

Rogan OnLine XS Archiver conforms to the SOP's of the Storage Service Class at Level 2 (Full). No elements are discarded or coerced by Rogan OnLine XS Archiver, including Lossy Image Compression (0028,2110).

However, due to communication with a HIS/RIS system, patient demographics and procedure identification numbers may be updated in the database to keep the archive in sync with the rest of the hospital IT systems.

Likewise, an operator with the right permissions can alter image elements manually. Digital Signature Support is at Signature Level 1. SCP may not preserve Digital Signatures and does not replace them.

If a Status of Success has been returned by the C-STORE response, the image has been stored on the Rogan OnLine XS Archiver short term partition and is immediately available through C-FIND and C-MOVE. The exception is when silent discarding of duplicate images has been configured: then the Success code may mean that the second copy was discarded. This feature should only be used if modalities cannot cope with the failure code, and have no way of remembering which images they have already sent successfully.

The duration of the storage is indefinite. An operator with the correct permissions can manually delete images from the archive. When images have been written to other media, they may be removed from the short term partition. If the media are in a jukebox, they can be retrieved automatically, but eventually the images will end up off-line, depending on the configuration.

If the Status is C000, the image has not been stored successfully. If a retry gives the same result, the log file of Rogan OnLine XS Archiver must be consulted to find the cause for store failure.

3.1.3.1.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept multiple proposed Presentation Context that match any of their accepted Presentation Contexts for specific SCU's, if Rogan OnLine XS Archiver has been configured to accept those contexts from these SCU's. For example, if the configuration item for one SCU has a property "ReceiveSyntax" with values "LOSSLESS", "EXPLICIT", then multiple Presentation Contexts corresponding to those syntaxes will be accepted.

3.1.3.1.4 Transfer Syntax Selection Policies

Rogan OnLine XS Archiver will select Explicit VR in favour of Implicit VR for Storage SOP Classes if the choice is available.

3.1.3.2 Find Request

3.1.3.2.1 Real-world Activity Associated with Find Request

Rogan OnLine XS Archiver receives a *Find* request, commonly from an AE that acts as a viewing station, where it is generated by a user.

3.1.3.2.2 Accepted Presentation Contexts

The following Presentation Contexts will be accepted by Rogan OnLine XS Archiver when receiving a *Find* request:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Patient Root Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Study Root Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Patient/Study Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

3.1.3.2.2.1 SOP Specific Conformance to the Supported Query SOP Classes

The default keys available for querying the database are:

Key	Tag	Match	Return
SOP Class UID	0008,0016	X	X
SOP Instance UID	0008,0018	X	X
Study Date	0008,0020	X	X
Study Time	0008,0030	X	X
Content Time	0008,0033	X	X
Accession Number	0008,0050	X	X
Modality	0008,0060	X	X
Modalities in Study	0008,0061	X	X
Institution Name	0008,0080	X	X
Referring Physician	0008,0090	X	X
Station Name	0008,1010	X	X
Study Description	0008,1030	X	X
Series Description	0008,103e	X	X
Patient's Name	0010,0010	X	X
Patient ID	0010,0020	X	X
Patient's Date of Birth	0010,0030	X	X
Patient's Sex	0010,0040	X	X
Body Part Examined	0018,0015	X	X
Study Instance UID	0020,000d	X	X
Series Instance UID	0020,000e	X	X
Study ID	0020,0010	X	X
Series Number	0020,0011	X	X
Instance Number	0020,0013	X	X
Number of Patient Related Studies	0020,1200		X
Number of Patient Related Series	0020,1201		X
Number of Patient Related Instances	0020,1202		X
Number of Study Related Series	0020,1204		X
Number of Study Related Instances	0020,1208		X
Number of Series Related Instances	0020,1209		X
Requesting Service	0032,1033	X	X

Additionally, the user can configure up to 10 additional elements that can be queried for.

If IHE support is purchased, additional fields are available for querying:

Key	Tag	Match	Return
Request Attribute Sequence	0040,0275	X	X
Performed Procedure Step Start Date	0040,0244	X	X
Performed Procedure Step Start Time	0040,0245	X	X

In IHE mode, images specific keys are:

Key	Tag	Match	Return
Rows	0028,0010		X
Columns	0028,0011		X
Bits Allocated	0028,0100		X
Number of Frames	0028,0008		X

Samples per Pixel	0028,0004		X
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In IHE mode, presentation state specific keys are:

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

In IHE mode, report specific keys are:

Key	Tag	Match	Return
Completion Flag	0040,A491	X	X
Verification Flag	0040,A493	X	X
Content Date	0008,0023	X	X
Content Time	0008,0033	X	X
Observation DateTime	0040,A032	X	X
Verifying Observer Sequence	0040,A073	X	X
>Verifying Organization	0040,A027		X
>Verification DateTime	0040,A030	X	X
>Verifying Observer Name	0040,A075	X	X
>Verifying Observer Identification Code Sequence	0040,A088		X
Referenced Request Sequence	0040,A370		X
>Study Instance UID	0020,000D		X
>Accession Number	0008,0050		X
>Requested Procedure ID	0040,1000		X
>Requested Procedure Code Sequence	0032,1064		X
>>Code Value	0008,0100		X
>>Coding Scheme Designator	0008,0102		X
>>Coding Scheme Version	0008,0103		X
>>Code Meaning	0008,0104		X
Concept Name Code Sequence	0040,A043	X	X
>Code Value	0008,0100	X	X
>Coding Scheme Designator	0008,0102	X	X
>Coding Scheme Version	0008,0103		X
>Code Meaning	0008,0104		X

In IHE mode, Key Object specific keys are:

Key	Tag	Match	Return
Content Date	0008,0023	X	X
Content Time	0008,0033	X	X
Observation DateTime	0040,A032	X	X
Referenced Request Sequence	0040,A370		X
>Study Instance UID	0020,000D		X
>Accession Number	0008,0050		X
>Requested Procedure ID	0040,1000		X
>Requested Procedure Code Sequence	0032,1064		X
>>Code Value	0008,0100		X
>>Coding Scheme Designator	0008,0102		X
>>Coding Scheme Version	0008,0103		X
>>Code Meaning	0008,0104		X
Concept Name Code Sequence	0040,A043	X	X
>Code Value	0008,0100	X	X
>Coding Scheme Designator	0008,0102	X	X
>Coding Scheme Version	0008,0103		X
>Code Meaning	0008,0104		X

Matching of attributes with VR=PN is case-insensitive. This involves Patient Name and Referring Physician, plus any other user defined elements with VR=PN.

3.1.3.2.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept the first proposed Presentation Context that matches any of its accepted Presentation Contexts.

3.1.3.2.4 Transfer Syntax Selection Policies

Not applicable.

3.1.3.3 Move Request

3.1.3.3.1 Real-world Activity Associated with Move Request

Rogan OnLine XS Archiver receives a *Move* request, commonly from an AE that acts as a viewing station, where it is generated by a user.

3.1.3.3.2 Accepted Presentation Contexts

The following Presentation Contexts will be accepted by Rogan OnLine XS Archiver when receiving a *Move* request:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Patient Root Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.1.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Study Root Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.2.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none
Patient / Study Query / Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.3.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

3.1.3.3.2.1 SOP Specific Conformance to the Supported Move SOP Classes

None.

3.1.3.3.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept the first proposed Presentation Context that matches any of its accepted Presentation Contexts.

3.1.3.3.4 Transfer Syntax Selection Policies

Not applicable.

3.1.3.4 Storage Commit Request

3.1.3.4.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Storage Commit* N-ACTION request, commonly from a Modality that has acquired images, where it is generated by a user. Rogan OnLine XS Archiver acknowledges the request through the N-ACTION-RSP, processes it and sends the response over a separate association (see 3.1.2.4 Storage Commit Re).

3.1.3.4.2 Proposed Presentation Context

The following Presentation Context is proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Storage Commit	1.2.840.10008.1.20.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

3.1.3.4.2.1 SOP Specific Conformance to the Storage Commit SOP Class

None.

3.1.3.4.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept the first proposed Presentation Context that matches any of its accepted Presentation Contexts.

3.1.3.4.4 Transfer Syntax Selection Policies

Not applicable.

3.1.3.5 Storage Commit Event Report

3.1.3.5.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Storage Commit* N-EVENT-REPORT request, from an Application Entity to which Rogan OnLine XS Archiver has just sent a *Storage Commit* N-ACTION request.

Each image corresponding to an item in the Referenced SOP Sequence is marked as Committed, and possibly as Archived (based on configuration).

Each image corresponding to an item in the Failed SOP Sequence is marked to be resent.

3.1.3.5.2 Proposed Presentation Context

The following Presentation Context is proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Storage Commit	1.2.840.10008.1.20.1	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCU	none

3.1.3.5.2.1 SOP Specific Conformance to the Storage Commit SOP Class

None.

3.1.3.5.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept the first proposed Presentation Context that matches any of its accepted Presentation Contexts.

3.1.3.5.4 Transfer Syntax Selection Policies

Not applicable.

3.1.3.6 Modality Performed Procedure Step

3.1.3.6.1 Associated Real-world Activity

Rogan OnLine XS Archiver receives a *Modality Performed Procedure Step* message, commonly from a Modality that has acquired images, where it is generated by a user.

Rogan OnLine XS Archiver responds with the N-CREATE-RSP or N-SET-RSP and stores the MPPS instance internally in order to be able to update its contents and forward it to other AE's according to the requirements for the IHE actor *Performed Procedure Step Manager*. (see 3.1.2.6 Modality Performed Procedure Step)

3.1.3.6.2 Proposed Presentation Contexts

The following Presentation Context is proposed:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	DICOM Implicit VR Little Endian	1.2.840.10008.1.2	SCP	none

3.1.3.6.2.1 SOP Specific Conformance to the MPPS SOP Class

None.

3.1.3.6.3 Presentation Context Acceptance Criterion

Rogan OnLine XS Archiver will accept the first proposed Presentation Context that matches any of its accepted Presentation Contexts.

3.1.3.6.4 Transfer Syntax Selection Policies

Not applicable.

4 Communication Profiles

4.1 Supported Communication Stacks

Rogan OnLine XS Archiver provides DICOM V3.0 TCP/IP Network Communication Support as defined in PS 3.8.

4.2 TCP/IP Stack

Rogan OnLine XS Archiver uses the WinSock TCP/IP stack as provided by the Windows NT and Windows 2000 operating system.

4.2.1 Physical Media Support

Rogan OnLine XS Archiver can connect to any medium that supports TCP/IP.

5 Extensions / Specializations / Privatizations

None.

6 Configuration

6.1 AE Title / Presentation Address Mapping

See 6.2.1 HPConfig.ini.

6.2 Configurable Parameters

6.2.1 HPConfig.ini

Most properties of Rogan OnLine XS Archiver can be configured in a file called HPCONFIG.INI. The following are relevant for its DICOM properties.

- Application Entity Title
- TCP/IP Port
- Names, IP addresses and ports of other DICOM AE's that may be queried
- Names, IP addresses and ports of other DICOM AE's to which images or normalized messages may be moved, the transfer syntaxes that may be used to accomplish this
- Names, IP addresses and ports of other DICOM AE's from which images or normalized messages may be received, the transfer syntaxes that may be used to accomplish this
- Behaviour when receiving duplicate images
- PDU size to request

7 Support of Extended Character Sets

Rogan OnLine XS Archiver retains any extended character information. Use of single byte extended character sets is supported as long as all characters are from the same repertoire.