



*KODAK DIGITAL SCIENCE*  
Medical Image and Information Library

**DICOM Conformance Statement**

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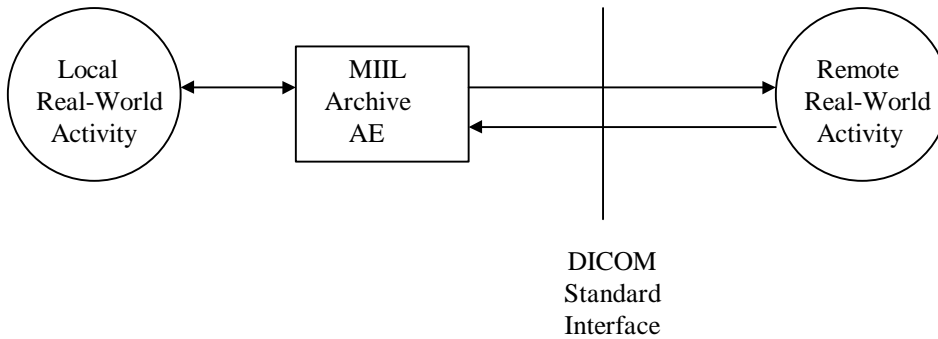
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# 0 Introduction

## 1 Implementation Model

### 1.1 Application Data Flow Diagram



## 2 AE Specifications

### 2.1 MIIL Archive AE

This Application Entity provides conformance to the following DICOM V3.0 SOP Classes:

SOP Class Name	SOP Class UID	Role
Verification	1.2.840.10008.1.1	Both
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	Both
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Both
Ultrasound Multi-frame Image Storage - RETIRED*	1.2.840.10008.5.1.4.1.1.3	Both
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Both
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Both
Ultrasound Image Storage – RETIRED*	1.2.840.10008.5.1.4.1.1.6	Both
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Both
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Both
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Both
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Both

SOP Class Name	SOP Class UID	Role
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	Both
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Both
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	Both
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Both
Patient Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.1.1	SCP
Patient Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.1.2	SCP
Study Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	SCP
Study Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.2.2	SCP
Patient/Study Only Query/Retrieve Information Model – FIND	1.2.840.10008.5.1.4.1.2.3.1	SCP
Patient/Study Only Query/Retrieve Information Model – MOVE	1.2.840.10008.5.1.4.1.2.3.2	SCP

\*Note: The use of these SOP classes is deprecated and support for them will be dropped in a future release.

## 2.1.1 Association Establishment Policies

### 2.1.1.1 General

The MIIL Archive AE runs as a "daemon" process, listening on a configurable TCP port (normally 1604). The AE will always propose a single, configurable maximum PDU size (normally 262,144 bytes). The AE will accept any proposed maximum PDU size between a configurable minimum and maximum (normally 4,096 and 262,144 bytes).

### 2.1.1.2 Number of Associations

The number of simultaneous associations that the MIIL Archive AE can handle is limited only by the system resources of the underlying operating system and defaults to 8.

### 2.1.1.3 Asynchronous Nature

The MIIL Archive AE does not perform asynchronous operations window negotiations.

### 2.1.1.4 Implementation Identifying Information

The MIIL Archive AE will provide a Implementation Class UID of "1.2.840.113564.7.1.3.0". The MIIL Archive AE will provide a Implementation Version Name of "KODAKMIIL3.0". The MIIL Archive AE will provide a configurable Application Entity Title (normally "KDSCDA" followed by the hostid; e.g. "KDSCDA72739045").

## 2.1.2 Association Initiation by Real-World Activity

2.1.2.1 Communication Channel Verification

**2.1.2.1.1 Associated Real-World Activity**

The MIIL Archive AE will attempt a C-ECHO DIMSE-C service to any known DICOM application entity when requested to do so by a service user.

**2.1.2.1.2 Proposed Presentation Contexts**

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification Service Class	1.2.840.10008.1.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

2.1.2.1.2.1 SOP Specific Conformance Statement for Verification SOP Class

The MIIL Archive AE meets the requirements of the Verification Service Class as defined in Annex A of PS 3.4.

2.1.2.2 New Examination

**2.1.2.2.1 Associated Real-World Activity**

This activity is initiated by MIIL Archive AE when it needs to autoroute images to a destination workstation.

**2.1.2.2.2 Presentation Context Table**

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Multi-frame Image Storage – RETIRED	1.2.840.10008.5.1.4.1.1.3	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Image Storage - RETIRED	1.2.840.10008.5.1.4.1.1.6	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCU	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

#### 2.1.2.2.2.1 General Conformance for Image Storage Service Class

The following coercions will be performed on incoming images:

Tag	Name	Coercion Method
(0010,0010)	Patient's Name	If blank set to "unknown-name"
(0010,0020)	Patient ID	If blank set to "unknown-id"
(0010,0030)	Patient's Birth Date	If blank or invalid set to 00010101
(0010,0032)	Patient's Birth Time	If blank or invalid set to 000000
(0010,0040)	Patient's Sex	If 'f' set to 'F', if 'm' set to 'M', if 'o' set to 'O', otherwise, if not 'F', 'M', or 'O' set to 'O'
(0008,0020)	Study Date	If blank or invalid set to today
(0008,0030)	Study Time	If blank or invalid set to 000000
(0008,0021)	Series Date	If blank or invalid set to today
(0008,0031)	Series Time	If blank or invalid set to 000000

### 2.1.3 Association Acceptance Policy

If an external DICOM AE requests an association with MIIL Archive AE but indicates an incorrect called AE title, the MIIL Archive AE will reject the association and provide the indication of called AE title not recognized. The MIIL Archive AE will then determine, through a table lookup mechanism, if the calling AE title is authorized to begin negotiations. If it is not, the MIIL Archive AE will reject the association and provide the indication of calling AE title not recognized. Both of these policies are configurable on or off.

#### 2.1.3.1 Communications Channel Verification

##### 2.1.3.1.1 Associated Real-World Activity

This activity is initiated by an external DICOM Application Entity wishing to verify the existence of a DICOM communications channel.

### 2.1.3.1.2 Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification Service Class	1.2.840.10008.1.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
		JPEG Baseline Transfer Syntax	1.2.840.10008.1.2.4.50		
		JPEG Extended Transfer Syntax	1.2.840.10008.1.2.4.51		

#### 2.1.3.1.2.1 SOP Specific Conformance for Verification Service Class

The MIIL Archive AE meets the requirements of the Verification Service Class as defined in Annex A of PS 3.4.

#### 2.1.3.1.3 Presentation Context Acceptance Criterion

The MIIL Archive AE will only accept presentation contexts from those DICOM application entities for which it has been configured to do so.

#### 2.1.3.1.4 Transfer Syntax Selection Policies

The MIIL Archive AE will choose a transfer syntax from the ordered list presented in the table in section 2.1.3.1.2.

### 2.1.3.2 New Examination

#### 2.1.3.2.1 Associated Real-World Activity

This activity is initiated by an imaging modality desiring to store newly-acquired exam imagery.

#### 2.1.3.2.2 Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Multi-frame Image Storage – RETIRED	1.2.840.10008.5.1.4.1.1.3	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

MR Image Storage	1.2.840.10008.5.1.4.1.1.4	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Image Storage - RETIRED	1.2.840.10008.5.1.4.1.1.6	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
		JPEG Baseline Transfer Syntax	1.2.840.10008.1.2.4.50		
		JPEG Extended Transfer Syntax	1.2.840.10008.1.2.4.51		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
X-Ray Angiographic Bi-Plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

#### 2.1.3.2.2.1 General Conformance for Image Storage Service Class

MIIL Archive AE acts as a Level 2 SCP. It may coerce several data elements so that the incoming data fits into its query model. When such coercion takes place, a C-STORE warning status of 0xB000 is returned to the SCU. Additionally, data element (0000, 0901) is encoded to contain the attribute tags of those elements that were coerced. Any image received via the DICOM Implicit VR Little Endian Transfer Syntax that contains data elements that are not in MIIL Archive's data dictionary will be rejected. For this reason, it is advisable to use one of the explicit VR transfer syntaxes when sending images that contain private data elements.

The following coercions will be performed on incoming images:

Tag	Name	Coercion Method
(0010,0010)	Patient's Name	If blank set to "unknown-name"
(0010,0020)	Patient ID	If blank set to "unknown-id"
(0010,0030)	Patient's Birth Date	If blank or invalid set to 00010101
(0010,0032)	Patient's Birth Time	If blank or invalid set to 000000
(0010,0040)	Patient's Sex	If 'f' set to 'F', if 'm' set to 'M', if 'o' set to 'O', otherwise, if not 'F', 'M', or 'O' set to 'O'
(0008,0020)	Study Date	If blank or invalid set to today
(0008,0030)	Study Time	If blank or invalid set to 000000
(0008,0021)	Series Date	If blank or invalid set to today
(0008,0031)	Series Time	If blank or invalid set to 000000

This version of the MIIL currently does not generate new instance UIDs when it internally compresses an image using JPEG Lossy Compression. Site administrators should take this into consideration when choosing to employ lossy compression.

#### 2.1.3.2.3 Presentation Context Acceptance Criterion

The MIIL Archive AE will only accept presentation contexts from those DICOM application entities for which it has been configured to do so.

#### 2.1.3.2.4 Transfer Syntax Selection Policies

The MIIL Archive AE will choose a transfer syntax from the ordered list presented in the table in section 2.1.3.2.2.

### 2.1.3.3 Query

#### 2.1.3.3.1 Associated Real-World Activity

This activity is initiated by an external DICOM Application Entity wishing to query the MIIL Archive AE for DICOM information objects.

#### 2.1.3.3.2 Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.1.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Study Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Patient/Study Only Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.3.1	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

#### 2.1.3.3.2.1 General Conformance for Query/Retrieve Information Model - FIND

MIIL Archive AE supports only unique and required keys. The following types of attribute matching are supported:

- Single Value Matching
- Universal Matching
- Wild Card Matching
- Range Matching

#### 2.1.3.3.2.2 SOP Specific Conformance for Patient Root Query/Retrieve Information Model - FIND

The IMAGE Query/Retrieve level is not supported.

#### 2.1.3.3.2.3 SOP Specific Conformance for Study Root Query/Retrieve Information Model - FIND

The IMAGE Query/Retrieve level is not supported.

#### 2.1.3.3.3 Presentation Context Acceptance Criterion

The MIIL Archive AE will only accept presentation contexts from those DICOM application entities for which it has been configured to do so.

#### 2.1.3.3.4 Transfer Syntax Selection Policies

The MIIL Archive AE will choose a transfer syntax from the ordered list presented in the table in section 2.1.3.3.2.

#### 2.1.3.4 Request Image(s)

##### 2.1.3.4.1 Associated Real-World Activity

This activity is initiated by an external DICOM Application Entity wishing to move DICOM information objects from the MIIL Archive AE to another DICOM AE.

##### 2.1.3.4.2 Presentation Context Table

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.1.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Study Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.2.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		
Patient/Study Only Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.3.2	DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2	SCP	None
		DICOM Little Endian Transfer Syntax	1.2.840.10008.1.2.1		
		DICOM Big Endian Transfer Syntax	1.2.840.10008.1.2.2		

#### 2.1.3.4.3 Presentation Context Acceptance Criterion

The MIIL Archive AE will only accept presentation contexts from those DICOM application entities for which it has been configured to do so.

#### 2.1.3.4.4 Transfer Syntax Selection Policies

The MIIL Archive AE will choose a transfer syntax from the ordered list presented in the table in section 2.1.3.4.2.

## 3 Communication Profiles

### 3.1 TCP/IP Stack

#### 3.1.1 API

While not strictly applicable because this implementation is a software package not intended to be integrated into different environments, this implementation uses the System V TLI socket API or the Berkeley Sockets API, as appropriate.

#### 3.1.2 Physical Media Support

This implementation supports any physical media that the underlying hardware (Sun SPARC Workstation) supports, provided there exists a TCP/IP stack implementation for the physical media.

### 3.2 Point-to-Point Stack

This implementation supports the Point-to-Point protocol that emulates a TCP/IP stack and provides connectivity over a serial port to a modem.

## 4 Extensions/Specializations/Privatizations

### 4.1 Standard Extended/Specialized/Private SOPs

#### 4.1.1 General Image IOD

The General Image IOD is extended with the following data elements. These elements are encoded as specified in Section 7.8 of PS 3.5. The Implementor Identification is encoded as “Kodak Archive1”.

Tag	Name	VR	VM
(0029,xx00)	Image Quality	US	1
(0029,xx01)	Original Pixel Data CRC	UL	1

##### 4.1.1.1 Image Quality

This data element is a bit mask describing the image quality. If bit 0 is set, this indicates that the pixel data decompressed without error upon retrieval from the long-term archive, but failed a supplemental CRC check. If bit 1 is set, this indicates that demographic data in the original Patient IOD has been overwritten with new data from the patient demographic database. All other bits have no significance and will be unset.

##### 4.1.1.2 Original Pixel Data CRC

This data element contains the CRC of the pixel data before it was subjected to lossless compression. The CRC is calculated according to ANSI X3.66-1979.

### 4.2 Private Transfer Syntaxes

MIIL Archive AE neither proposes nor accepts any private transfer syntaxes.

## 5 Configuration

### 5.1 AE Title/Presentation Address Mapping

AE Title/Presentation Address mapping is accomplished through a table lookup mechanism that returns one presentation address when given an AE Title. It is permitted for different AE Titles to map to the same presentation address.

### 5.2 Configurable Parameters

The following parameters are configurable:

- TCP listening port number
- Proposed PDU size
- Application Entity Title
- Number of times to attempt retry of C-STORE operations

## 6 Support of Extended Character Sets

The MIIL Archive AE supports all character sets specified in Section C.12.1.1.2 of PS3.3.

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