



# **IMCO-PACS DICOM Conformance Statement**

**Document 4014 Revision B**

**IMCO Technologies  
N27 W23957 Paul Road  
Pewaukee, WI 53072**



# IMCO-PACS DICOM Conformance Statement

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## 1.0 Introduction

This document is the DICOM 3.0 Conformance Statement for IMCO-PACS. IMCO-PACS is a self-contained, networked, computer system used for capturing, storing, and displaying diagnostic medical images. The system conforms to the DICOM 3.0 standard to allow the sharing of medical information with other digital imaging systems.

## 2.0 Implementation Model

The XPACQ (Acquisition) AE can receive storage image objects as a C-STORE SCP. As an SCP, it can respond to external storage requests which are either unsolicited or a result of DICOM C-MOVE requests. It can also receive storage commitment push model N-ACTION requests from the SCU. The XPACQ can send all N-EVENT reports over this same association or open a new association to the SCU and send the N-EVENT report over the new association.

The XP Query/Retrieve SCP AE allows external systems to query IMCO-PACS® for patient, study and series demographic queries as a C-FIND SCP. Also, image retrievals will be processed by this AE as a C-MOVE SCP.

The XP Sender AE can send storage image objects as a C-STORE SCU. It receives requests from a user to transmit a list of images to a specific DICOM destination.

The Print Management AE enables users to initiate an association with a DICOM-complaint printer to print a list of selected images.

## 3.0 DICOM Conformance Statement of XPACQ Service

This describes the DICOM Network Communication Service supported by XPACQ Application. XPACQ operates with Storage SCP, Storage Commitment SCP and Storage SCU, and supports the following SOP Service Classes.

### 3.1 Verification SOP Classes

SOP Class	SOP Class UID
Verification	1.2.840.10008.1.1



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## 3.2 Acceptable Storage SOP Classes

SOP Class	SOP Class UID
Computed Radiology Image Storage	1.2.840.10008.5.1.4.1.1.1
Digital X-ray Image Storage –For Presentation	1.2.840.10008.5.1.4.1.1.1.1
Digital X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.1.1
Digital Mammography X-ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.2
Digital Mammography X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.2.1
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
Ultrasound Multi-Frame Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3
Ultrasound Multi-Frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1
MR Image Storage	1.2.840.10008.5.1.4.1.1.4
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1

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X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128
Digital Intra-oral X-ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.3
Digital Intra-oral X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.3.1
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1

### 3.3 Acceptable Storage Commitment SOP Classes

SOP Class	SOP Class UID
Storage Commitment Psuh Model SOP Class	1.2.840.10008.1.20.1

### 3.4 Supported Transfer Syntaxes

Transfer Syntax	UID
Implicit VR Little Endian	1.2.840.10008.1.2
Explicit VR Little Endian	1.2.840.10008.1.2.1
Explicit VR Big Endian	1.2.840.10008.1.2.2
JPEG Baseline (Process 1): Default Transfer Syntax for Lossy JPEG 8 Bit Image Compression	1.2.840.10008.1.2.4.50



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JPEG Extended (Process 2 & 4): Default Transfer Syntax for Lossy JPEG 12 Bit Image Compression  (Process 4 only)	1.2.840.10008.1.2.4.51
JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57
JPEG Lossless, Non-Hierarchical, First Order  Prediction (Process 14 [Selection Value 1]): Default  Transfer Syntax for Lossless JPEG Image Compression	1.2.840.10008.1.2.4.70
JPEG 2000 Image Compression (Lossless only)	1.2.840.10008.1.2.4.90
JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
RLE Lossless	1.2.840.10008.1.2.5

### 3.5 Association Policy

Maximum PDU Size: 32768 Bytes

Max Pending Connection (Number of Associations): 5

Asynchronous Nature: Not Support

Implementation Information

IMCO-PACS Implementation UID Prefix: 1.2.392.200215

Implementation Class UID: 1.2.392.200215.142

Implementation Version Name: IMCO PACS Acquisition 1.0

### 3.6 C-ECHO Service

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Supports both C-STORE Service's Presentation Class UID and Transfer Syntax.

## 4.0 DICOM Conformance Statement of XP Q/R SCP Service

This describes DICOM Network Communication Service supported by XP Q/R SCP Application. XP Q/R SCP operates with Query/Retrieve SCP and Storage SCU, and supports the following SOP Service Classes

### 4.1 Verification SOP Classes

SOP Class	SOP Class UID
Verification	1.2.840.10008.1.1

### 4.2 Acceptable Query/Retrieve SCP SOP Classes

SOP Class	SOP Class UID
Patient Root Query/Retrieve Information Model-FIND	1.2.840.10008.5.1.4.1.2.1.1
Patient Root Query/Retrieve Information Model-Move	1.2.840.10008.5.1.4.1.2.1.2
Patient Root Query/Retrieve Information Model-GET	1.2.840.10008.5.1.4.1.2.1.3
Study Root Query/Retrieve Information Model-FIND	1.2.840.10008.5.1.4.1.2.2.1
Study Root Query/Retrieve Information Model-MOVE	1.2.840.10008.5.1.4.1.2.2.2
Study Root Query/Retrieve Information Model-GET	1.2.840.10008.5.1.4.1.2.2.3



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## 4.3 Acceptable Storage SCP SOP Classes

SOP Class	SOP Class UID
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1
Digital X-ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.1
Digital X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.1.1
Digital Mammography X-ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.2
Digital Mammography X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.2.1
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
Ultrasound Multi-Frame Image Storage (retired)	1.2.840.10008.5.1.4.1.1.3
Ultrasound Multi-Frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1
MR Image Storage	1.2.840.10008.5.1.4.1.1.4
Ultrasound Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7



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X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128
Digital Intra-oral X-ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.3
Digital Intra-oral X-ray Image Storage – For Processing	1.2.840.10008.5.1.4.1.1.1.3.1
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1

#### 4.4 Acceptable Transfer Syntaxes

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

#### 4.5 Acceptable Transfer Syntaxes

Maximum PDU Size: 32768 Bytes

Max Pending Connection (Number of Associations): 5

Asynchronous Nature: Not Support

Implementation Information

IMCO PACS Implementation UID Prefix: 1.2.392.200215

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Implementation Class UID: 1.2.392.200215.144

Implementation Version Name: IMCO PACS Q/R SCP 1.0

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