CR-TECH DICOM Conformance Statement

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Introduction

This section is an abbreviated DICOM conformance statement for CR-TECH products.

Supported transfer syntaxes (Reading)

The Transfer Syntax UID is in the file DICOM Tag field (0002,0010).

	Description
Uncompressed Transfer Syntax	
1.2.840.10008.1.2	Implicit VR - Little Endian
1.2.840.10008.1.2	Modality Worklist
1.2.840.10008.1.2.1	Explicit VR - Little Endian
1.2.840.10008.1.2.1.99	Deflated Explicit VR - Little Endian
1.2.840.10008.1.2.2	Explicit VR - Big Endian
RLE Transfer Syntax	**Description**
1.2.840.10008.1.2.5	Run Length Encoding, Lossless
JPEG Transfer Syntax	**Description**
1.2.840.10008.1.2.4.50	JPEG Baseline (Process 1)
1.2.840.10008.1.2.4.51	JPEG Extended (Process 2 & 4)
1.2.840.10008.1.2.4.57	JPEG Lossless, Non-Hierarchical (Process 14)
1.2.840.10008.1.2.4.70	JPEG Lossless, Hierarchical, First-Order Prediction (Process 14, [Selection Value 1])

Supported transfer syntaxes (Writing)

The Transfer Syntax UID is in the file DICOM Tag field (0002,0010).

Uncompressed Transfer Syntax	**Description**
1.2.840.10008.1.2	Implicit VR - Little Endian
1.2.840.10008.1.2.1	Explicit VR - Little Endian
JPEG Transfer Syntax	**Description**
1.2.840.10008.1.2.4.70	JPEG Lossless, Hierarchical, First-Order Prediction (Process 14, [Selection Value 1])

Supported "Photometric Interpretation" pixel format (Reading)

The Photometric Interpretation UID is in the file DICOM Tag field (0028,0004).

Photometric Interpretation" pixel format	Description
MONOCHROME1	grey level image description
MONOCHROME2	grey level image description
PALETTE COLOR	pseudo color image description
RGB	true color image description
YBR_FULL	true color image description
YBR_FULL_422	true color image description

Supported "Photometric Interpretation" pixel format (Writing)

The Photometric Interpretation UID is in the file DICOM Tag field (0028,0004).

Photometric Interpretation" pixel format	**Description**
MONOCHROME2	grey level image description (high values=bright, low values=dark)

Supported 'Bits Allocated' values (Reading)

The Bits Allocated value is in the file DICOM Tag field (0020,0100).

Classical values	**Description**
8, 10,12,14,15, 16	12 means that 1 pixels is stored in 1 'short int' or 2 bytes

Supported SOP Classes - User Of Service (SCU) and Provider Of Service (SCP)

Networking SOP Classes	Description
Verification	SCU & SCP
Image Transfer	SCU & SCP, all modalities, multicast
Query & Retrieve	Study Root Q/R - FIND, Study Root Q/R - MOVE, SCU & SCP, multicast
Modality Worklist	Information Model SCU

Support of Extended Character Sets

Configurable Parameters:
The following items are configurable for each entity in the configuration file:
- Port Number
- AE Title for SCU operations
- AE Title for Storage SCP
- AE Title for Query/Retrieve SCP / SCU

-AE Title for Modality Worklist

Processing Application Support

SOP Classes	Description

Digital X-Ray Image Storage - for Presentation	
Digital X-Ray Image Storage - for Presentation	
Digital X-Ray Image Storage - for Processing Storage	
Digital Mammography X-ray Image Storage - For Presentation	
Digital Mammography X-ray Image Storage - For Processing	
Digital Intra-Oral X-ray Image Storage - For Presentation	
Digital Intra-Oral X-Ray Image Storage - For Processing	
CT Image Storage	
US Multi-frame Image Storage	
MR Image Storage	
Enhanced MR Image Storage	
MR Spectroscopy Storage	
Ultrasound Image Storage	
Secondary Capture Image Storage	
Multi-Frame Single Bit Secondary Capture Image Storage	Use and Create
Multi-Frame GrayScale Byte Secondary Capture Image Storage	
Multi-Frame GrayScale Word Secondary Capture Image Storage	
Multi-Frame True Color Secondary Capture Image Storage	
Standalone Overlay Storage	
Standalone Curve Storage	
Standalone Modality Worklist Storage	
Standalone VOI LUT Storage	
GrayScale Softcopy Presentation State Storage SOP Class	
X-Ray Angiographic Image Storage	
X-Ray Radiofluoroscopic Image Storage	
Nuclear Medicine Image Storage	
Raw Data Storage	
Positron Emission Tomography Image Storage	
Standalone PET Curve Storage	

Print SOP Classes - User Of Service (SCU)

SOP Classes	SOP Class UID

Print Job SOP Class	1.2.840.10008.5.1.1.14
Printer SOP	1.2.840.10008.5.1.1.16