Softneta

MedDream

Conformance Statement for DICOM Viewer

(version 5.1)

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Table of Contents

Introduction

This section is an abbreviated DICOM conformance statement for MedDream DICOM viewer. It specifies the compliance of MedDream to file reading support to the dicom base standard part 5.

Supported transfer syntaxes (Reading)

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
1.2.840.10008.1.2.2	Explicit VR Big Endian
1.2.840.113619.5.2	Implicit VR - Big Endian (G.E Private)

Table 1. Uncompressed transfer syntax.

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])

Table 2. JPEG transfer syntax.

RLE Compression Transfer Syntax	Description
1.2.840.10008.1.2.5	Implicit VR Little Endian

Table 3. RLE compression transfer syntax.

JPEG 2000 Transfer Syntax	Description
1.2.840.10008.1.2.4.90	JPEG 2000 Image Compression (Lossless Only)
1.2.840.10008.1.2.4.91	JPEG Extended (Process 2 & 4)

Table 4. JPEG 2000 Transfer Syntax.

MPEG2 Image Compression Transfer Syntax	Description
1.2.840.10008.1.2.4.100	MPEG2 Main Profile Main Level

Table 5. MPEG2 Image Compression Transfer Syntax.

MPEG-4 AVC/H.264 HiP@Level4.1 Video Compression	Description
1.2.840.10008.1.2.4.103	MPEG-4 AVC/H.264 BD-compatible High Profile / Level 4.1

Table 6. MPEG-4 AVC/H.264 HiP@Level4.1 Video Compression.

Supported SOP classes (Reading)

Supported SOP classes	Description
1.2.840.10008.5.1.4.1.1.1	Computed Radiography Image Storage
1.2.840.10008.5.1.4.1.1.1.1	Digital X-Ray Image Storage - For Presentation
1.2.840.10008.5.1.4.1.1.1.1.1	Digital X-Ray Image Storage - For Processing
1.2.840.10008.5.1.4.1.1.1.2	Digital Mammography X-Ray Image Storage - For Presentation
1.2.840.10008.5.1.4.1.1.1.2.1	Digital Mammography X-Ray Image Storage - For

	Processing
1.2.840.10008.5.1.4.1.1.1.3	Digital Intra-Oral X-Ray Image Storage - For Presentation
1.2.840.10008.5.1.4.1.1.2	CT Image Storage
1.2.840.10008.5.1.4.1.1.3.1	Ultrasound Multi-frame Image Storage
1.2.840.10008.5.1.4.1.1.4	MR Image Storage
1.2.840.10008.5.1.4.1.1.4.1	Enhanced MR Image Storage
1.2.840.10008.5.1.4.1.1.6.1	Ultrasound Image Storage
1.2.840.10008.5.1.4.1.1.7	Secondary Capture Image Storage
1.2.840.10008.5.1.4.1.1.7.2	Multi-frame Grayscale Byte Secondary Capture Image Storage
1.2.840.10008.5.1.4.1.1.9.1.1	12-lead ECG Waveform Storage
1.2.840.10008.5.1.4.1.1.9.1.2	General ECG Waveform Storage
1.2.840.10008.5.1.4.1.1.11.1	Grayscale Softcopy Presentation State Storage
1.2.840.10008.5.1.4.1.1.12.1	X-Ray Angiographic Image Storage
1.2.840.10008.5.1.4.1.1.12.2	X-Ray Radiofluoroscopic Image Storage
1.2.840.10008.5.1.4.1.1.13.1.3	Breast Tomosynthesis Image Storage
1.2.840.10008.5.1.4.1.1.20	Nuclear Medicine Image Storage
1.2.840.10008.5.1.4.1.1.77.1.1	VL Endoscopic Image Storage
1.2.840.10008.5.1.4.1.1.77.1.1.1	Video Endoscopic Image Storage
1.2.840.10008.5.1.4.1.1.77.1.4	VL Photographic Image Storage
1.2.840.10008.5.1.4.1.1.77.1.4.1	Video Photographic Image Storage
1.2.840.10008.5.1.4.1.1.77.1.5.1	Ophthalmic Photography 8 Bit Image Storage
1.2.840.10008.5.1.4.1.1.77.1.5.2	Ophthalmic Photography 16 Bit Image Storage
1.2.840.10008.5.1.4.1.1.77.1.5.4	Ophthalmic Tomography Image Storage
1.2.840.10008.5.1.4.1.1.88.11	Basic Text SR
1.2.840.10008.5.1.4.1.1.88.22	Enhanced SR
1.2.840.10008.5.1.4.1.1.88.33	Comprehensive SR
1.2.840.10008.5.1.4.1.1.88.59	Key Object Selection Document
1.2.840.10008.5.1.4.1.1.88.67	X-Ray Radiation Dose SR
1.2.840.10008.5.1.4.1.1.104.1	Encapsulated PDF Storage
1.2.840.10008.5.1.4.1.1.128	Positron Emission Tomography Image Storage
1.2.840.10008.5.1.4.1.1.481.1	RT Image Storage

Supported "Photometric Interpretation" pixel format (Reading)

"Photometric Interpretation" pixel format	Description
MONOCHROME1	grey level image description (high values=dark, low values=bright)
MONOCHROME2	grey level image description (high values=bright, low values=dark)
PALETTE COLOR	pseudo color image description
RGB	true color image description
YBR_FULL	true color image description
YBR_FULL_422	true color image description

Table 7. Photometric Interpretation pixel format.

Supported 'Bits Allocated' values (Reading)

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

Classical values	Description

8, 12, 16	12 means that 4 pixels are stored in 3 'short int'

Table 8. Classical allocated bits values.

Unusual values	Description
24	Some ACR-NEMA RGB files came with 'Bits Allocated' = 24 and 'Samples Per Pixel' = 1, or with no 'Samples Per Pixel' at all
32	Some ACR-NEMA files, from CT, came with 'Bits Allocated' = 32 (probably 65535 grey levels was not enough for them ...)

Table 9. Unusual allocated bit values.

List of Tables

Index

MedDream WEB DICOM Viewer is manufactured by Softneta UAB.

Medical device class: Directive 93/42/EEC

Class I medical device

ID of the notified body: 191352247

Softneta UAB
K.Barsausko str. 59
LT-51423 Kaunas, Lithuania