



MedDream

Conformance Statement for DICOM Viewer

(version 4.07)

© 2015, Softneta UAB, Kaunas

All rights reserved in the event of granting of patents or registration as a utility patent.

All names of companies and products mentioned in this user's manual may be trademarks or registered trademarks. References to products of other manufacturers are for information purposes only. Such references are intended neither as an approval nor a recommendation of these products. Softneta UAB accepts no liability for the performance or use of such products.

Other brand names, software and hardware names used in this user's manual are subject to trademark or patent protection. The quoting of products is for informational purposes only and does not represent a trademark misuse.

This user's manual is protected by copyright. Unless expressly authorized in writing, dissemination, duplication or other commercial exploitation of this documentation set or communication of its contents or parts of it is not permitted. In case of infringement, the violator may be liable to pay compensation for damages.

Specifications due to technical developments are subject to change. This user's manual is not subject to the revision service. Please contact the manufacturer or authorized dealer to request the latest edition of the manual.

Table of Contents

Table of Contents	3
Introduction.....	4
Supported transfer syntaxes (Reading)	4
Supported "Photometric Interpretation" pixel format (Reading)	5
Supported 'Bits Allocated' values (Reading)	5
List of Tables	6
Index.....	7

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
1.2.840.10008.1.2.1.99	Deflated Explicit VR Little 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 "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 (probabely 65535 grey levels was not enough for them ...)

Table 9. Unusual allocated bit values.

List of Tables

Table 1. Uncompressed transfer syntax. 4

Table 2. JPEG transfer syntax. 4

Table 3. RLE compression transfer syntax. 4

Table 4. JPEG 2000 Transfer Syntax. 4

Table 5. MPEG2 Image Compression Transfer Syntax. 4

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

Table 7. Photometric Interpretation pixel format. 5

Table 8. Classical allocated bits values. 5

Table 9. Unusual allocated bit values. 5

Index

	C	
Classical values		5
	J	
JPEG Transfer Syntax		4
	L	
List of Tables		6
	M	
MPEG2 Image Compression Transfer Syntax.....		4
MPEG-4 AVC/H.264 HiP@Level4.1 Video Compression		4
	P	
Photometric Interpretation		5
	R	
RLE Compression Transfer Syntax.....		4
	S	
Supported		5
Supported 'Bits Allocated' values (Reading)		5
Supported transfer syntaxes (Reading)		4
	T	
Table of Contents.....		3
	U	
Uncompressed Transfer Syntax		4
Unusual values		5

Product is manufactured by Softneta UAB.

Softneta UAB
Varniu str. 1
LT-48310 Kaunas, Lithuania

