FIATLUX™
IMAGING

FiatLux Visualize™

Version 1.0

DICOM Conformance Statement

FLV005ATMA05-03
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⚠**Caution** *U.S. Federal Law restricts this product to use by or on the order of a physician.*

Due to rapid changes in computer technology, the specifications contained in this statement are subject to change without notice.

This document and the FiatLux Visualize software are intended for use by suitably qualified or trained personnel only.

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1 Introduction

This Conformance Statement specifies the compliance of FiatLux Visualize compliance to the ACR-NEMA DICOM standards, and satisfies the requirement for a vendor DICOM conformance statement. FiatLux Visualize v1.0 will be referred to as FiatLux Visualize in this document.

1.1 Scope of application

FiatLux Visualize is a medical diagnosis software application that allows physicians, radiologists, medical technicians, nurses, and other trained medical professionals to select, review and analyze DICOM images acquired from CT and MR devices. It provides a suite of tools for 2D/3D reconstruction based on the input image dataset. Images can be processed and displayed within the system or across networks at distributed locations. FiatLux Visualize runs on a commercial PC platform.

1.2 Intended audience

It is assumed that the reader is familiar with the DICOM 3.0 terminology and concepts prior to reading this conformance statement.

1.3 References

Digital Imaging and Communications in Medicine (DICOM) 3.0-2007, National Electrical Manufacturers Association (NEMA) PS 3.1-3.18.

1.4 Acronyms and abbreviations

The following acronyms and abbreviations are used in this document. More detailed descriptions of these terms can be found in the DICOM standard.

AE	Application Entity
CT	Computed Tomography
DICOM	Digital Imaging and Communications in Medicine
FSC	File Set Creator
FSR	File Set Reader
FSU	File Set Updater
MR	Magnetic Resonance
NEMA	National Electrical Manufacturers Association
SOP	Service-Object Pair
UID	Unique Identifier
VR	Value Representation

2 Media Interchange

2.1 Implementation Model

FiatLux Visualize provides Standard Conformance to the DICOM Media Storage Service and File Format (PS 3.10) for the interchange of DICOM CT and MR instances via CD/DVD or other DICOM Storage Medium, as defined in PS 3.12 and identified in section 2.2.1.

2.1.1 Application Data Flow Diagram

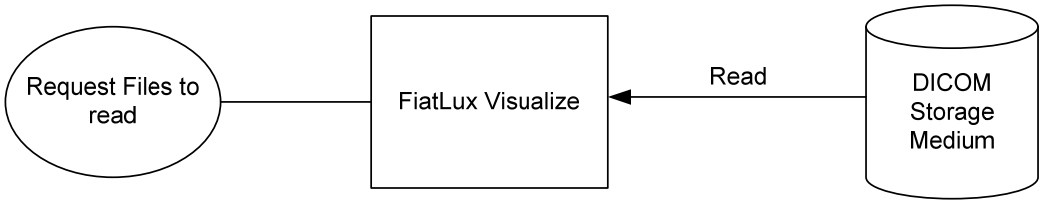

Figure 1 – Media Interchange Application Data Flow Diagram

FiatLux Visualize will act as a FSR to receive a transferred File Set from CD/DVD or other DICOM Storage Medium. FiatLux Visualize does not support reading DICOMDIR.

2.1.2 Functional Definitions of AE's

FiatLux Visualize handles DICOM Media Storage service on CD/DVD or other medium interchange profile. It supports the following functions:

- Read one or more DICOM image files in a File Set from CD/DVD or other storage medium and pass the information to a display application.

2.1.3 Sequencing of Real World Activities

DICOM images previously created onto a CD/DVD or other medium can be read by FiatLux Visualize. Images are loaded and cached by FiatLux Visualize into a local directory. They can be viewed in FiatLux Visualize for further needs.

2.2 AE Specifications

2.2.1 FiatLux Visualize Media AE Specification

FiatLux Visualize Media AE provides standard conformance to the DICOM interchange option of the Media Storage Class for any of the Media Storage Standard SOP Classes listed in Table 2.1.

Table 2.1 Media Storage Standard SOP Classes Supported by FiatLux Visualize

DICOM SOP Class Name	SOP Class UID
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1.4

The following transfer syntaxes are supported by FiatLux Visualize when importing and reading

images:

Table 2.2 Transfer Syntax Supported by FiatLux Visualize

Supported Transfer Syntax	SOP Class UID
Implicit VR Litter Endian	1.2.840.10008.1.2
Explicit VR Litter Endian	1.2.840.10008.1.2.1

The system supports reading of DICOM files from any of the following media types:

- 120mm CD-R Medium
- UDF on 120 mm DVD-RAM Medium
- 120 mm DVD Medium
- USB Connected Removable Devices
- Compact Flash removable Devices
- Multimedia Card Removable Devices
- Secure Digital Card Removable Devices

2.2.1.1 File Meta Information for the FiatLux Visualize Media AE

Not applicable, since FiatLux Visualize is not an FSC and FSU.

2.2.1.2 Real-World Activities

FiatLux Visualize FSR is activated through the user interface when a user selects to import and load DICOM images from the DICOM storage medium. The import operation will import all images from the media to a local directory. The load operation will load the images to the FiatLux Visualize for display.

2.3 Augmented and Private Application Profiles

2.3.1 Augmented Application Profiles

None.

2.3.2 Private Application Profiles

None.

2.4 Media Configuration

None.

3 Extensions/Specializations/Privatizations

There are no extensions, specializations or privatizations.

4 Configuration

4.1 AE Title/Presentation address mapping

Not applicable to this release.

4.2 Other configurable parameters

Not applicable to this product.

5 Support of Extended Character Sets

Not applicable to this product.