Miele-LXIV

DICOM 3.0

Conformance Statement

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Cover Page

Company Name: Alex Bettarini (bettar)

Product Name: Miele-LXIV DICOM Workstation and Image Viewer

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1 Conformance Statement Overview

Miele-LXIV is an application for macOS to transfer medical imaging files and visualize them.

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer		
CT Image Storage	YES	YES
US Image Storage	YES	YES
Query/Retrieve		
Study Root Information Model FIND	YES	YES
Workflow Management		
Print Management		

2 Table of Contents

3 Introduction

3.1 Revision History

Document Version	Date of Issue	Author	Description
1.0	11 Jan 2019	Alex Bettarini	Initial release

3.2 Audience

3.3 Remarks

3.4 Terms and Definitions

3.5 References

4 Networking

4.1 Implementation Model

4.1.1 Application Data Flow

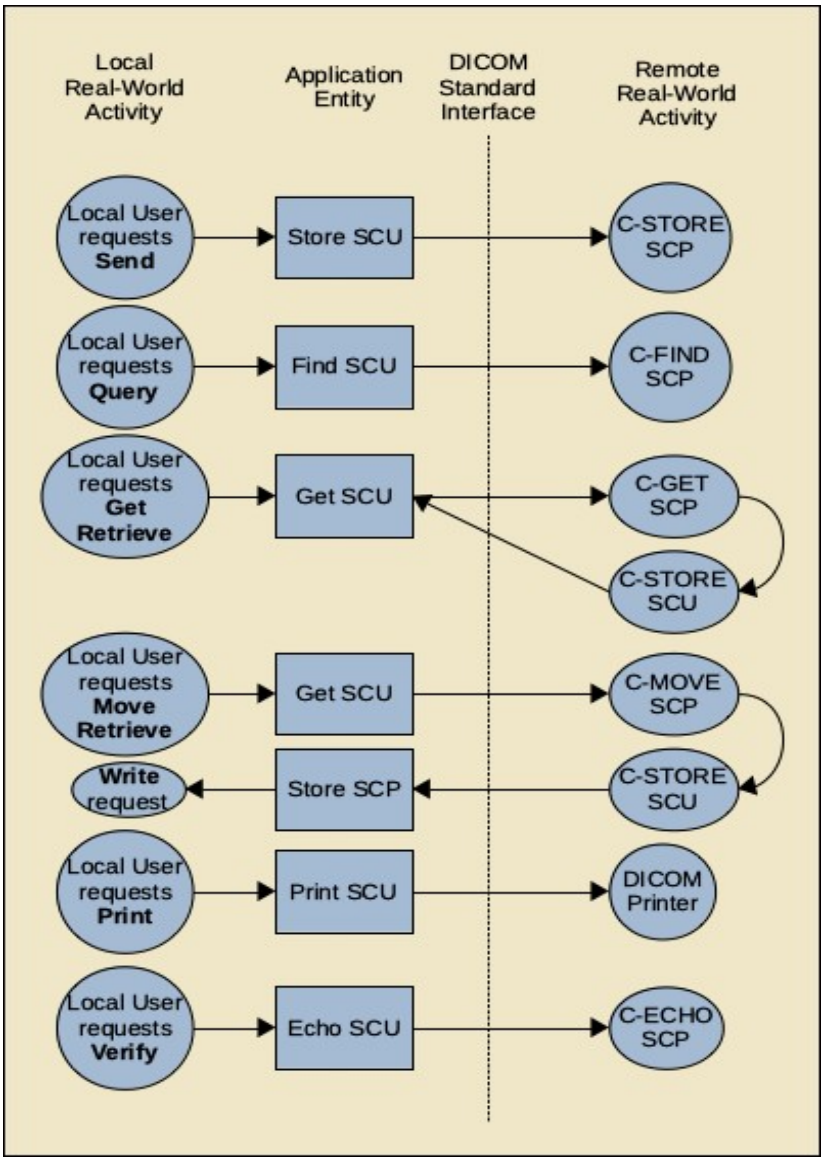


Figure 1: Implementation model

The application is an Objective-C application that provides both a user interface, internal database and network listener that spawns additional threads as necessary to handle incoming connections, as well as media support.

Conceptually the network services may be modelled as the following separate AEs, though in fact all AEs share a single (configurable) AE title:.

- ECHO-SCP, which responds ti verification requests

- ECHO-SCU
- STORAGE-SCP
- STORAGE-SCU
- FIND-SCU
- MOVE-SCU
- GET-SCU

4.1.2 Functional Definition of AE's

4.1.2.1 Store-SCP

4.1.3 Sequencing of Real World Activities

4.2 AE Specifications

4.2.1 Store-SCU

4.2.1.1 SOP Classes

Store-SCU provides Standard Conformance to the following SOP Class(es):

SOP Class Name	SOP Class UID	SCU	SCP
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Yes	

4.2.1.2 Association Policies

4.2.1.2.1 General

4.2.1.2.2 Number of Associations

4.2.1.2.3 Asynchronous Nature

4.2.1.2.4 Implementation Identifying Information

4.2.1.3 Association Initiation Policy

4.2.1.4 Association Acceptance Policy

4.2.2 Find-SCU

TBA

4.2.3 Get-SCU

TBA

4.2.4 Move-SCU

TBA

4.2.5 Store-SCP

TBA

4.2.6 Print-SCU

4.2.6.1 SOP Classes

Miele-LXIV Print-SCU provides Standard Conformance to the following SOP Class(es):

SOP Class Name	SOP Class UID	SCU	SCP
Basic Film Session	1.2.840.10008.5.1.1.1	Yes	No
Basic Film Box	1.2.840.10008.5.1.1.2	Yes	No

4.2.6.2 Association Policies

4.2.6.3 Association Initiation Policy

4.2.6.4 Association Acceptance Policy

4.2.7 Echo-SCU, Echo-SCP

4.2.7.1 SOP Classes

Echo-SCU provides Standard Conformance to the following SOP Class(es):

SOP Class Name	SOP Class UID	SCU	SCP
Verification	1.2.840.10008.1.1	Yes	Yes

4.2.8 WADO-SCU

Miele-LXIV WADO-SCU, WADO-SCP provide Standard Conformance to the part 18: Web Access to DICOM Persistent Objects (WADO)

4.2.8.1 Association Policies

4.2.8.2 Association Initiation Policy

4.2.8.3 Association Acceptance Policy

4.3 Network Interfaces

4.3.1 Physical Network Interface

4.3.2 Additional Protocols

None supported.

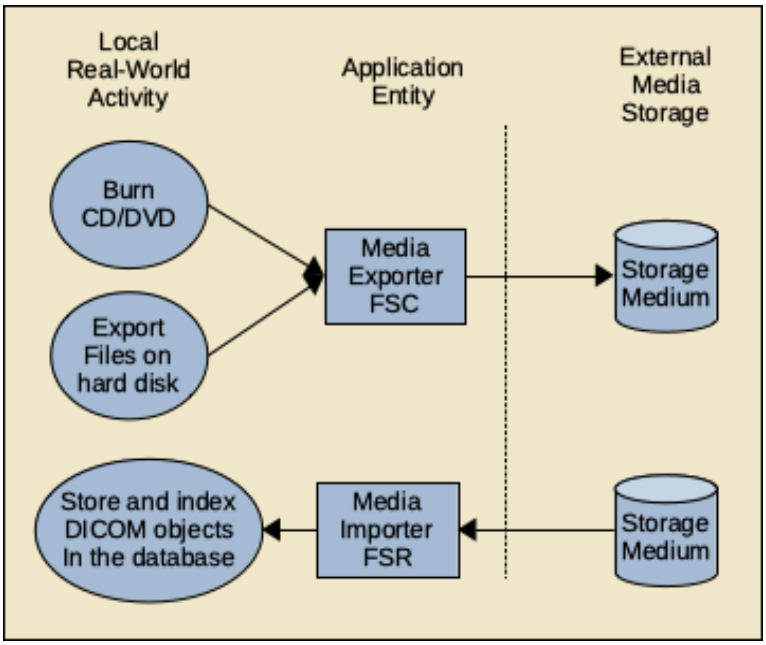
4.4 Configuration

5 Media Interchange

5.1 Implementation Model

Miele-LXIV can export or import DICOM objects to external media storage, such as CD or DVD.

5.1.1 Application Data Flow



5.1.2 Functional Definition of AEs

5.1.2.1 Media-FSC

5.1.2.2 Media-FSR

5.2 AE Specifications

5.2.1 Media-FSC

Application Profiles Supported	Real World Activity	Role
STD-GEN-CD	Save to directory or file	FSC
STD-GEN-DVD-RAM	Save to directory or file	FSC
STD-GEN-USB	Save to directory or file	FSC

5.2.2 Media-FSR

Application Profiles Supported	Real World Activity	Role
STD-GEN-CD	Load directory or file	FSR
STD-GEN-DVD-RAM	Load directory or file	FSR

STD-GEN-USB	Load directory or file	FSR

5.3 Augmented and Private Profiles

None.

6 Support of Character Sets

The specified character set value is stored in the DICOM file, tag field (0008,0005).

Character Set Description	Defined Term

7 Security

8 Annexes