

Digicom™ Workstation Software

DICOM Conformance Statement

May 2008
Revision 4

**KUB Technologies, Inc.
1317 Mill Plain Road, Unit A,
Fairfield, CT 06824.
(203) 364 – 8544
www.kubtec.com**

3.1.3.2.	Receive Images from a Remote System	13
3.1.3.2.1.	Associated Real World Activity	13
3.1.3.2.2.	Accepted Presentation Contexts.....	13
3.1.3.2.3.	SOP Specific Conformance Statement for SOP Storage Class	13
3.1.3.2.4.	Presentation Context Acceptance Criterion	14
3.1.4.	Digicom Workstation DICOM Media Services	14
3.1.4.1.	Real World Activity: Display Directory of CD-R Disk	14
3.1.4.2.	Real World Activity: Read Images from CD-R Disk	15
3.1.4.3.	Real World Activity: Write Images	16
4.	COMMUNICATION PROFILE.....	16
4.1.	Supported Communication Stacks.....	16
4.2.	OSI Stack	16
4.3.	TCP/IP Stack	16
4.3.1.	Physical Media Support.....	17
4.4.	Point-to-Point Stack.....	17
5.	EXTENSIONS/SPECIALIZATIONS/PRIVATIZATIONS.	17
5.1.	Standard Extended/Specialized/Private SOPs	17
5.2.	Private Transfer Syntaxes	17
6.	CONFIGURATION.....	17
6.1.	AE Title/Presentation Address Mapping	17
6.2.	Configuration Parameters	17

INTRODUCTION

1.1. Scope and Field of Application

This document is the DICOM Conformance Statement for the Digicom Workstation medical imaging software application developed by KUB Technologies. Contained in this statement are detailed descriptions of how Digicom Workstation collaborates with other Medical Imaging devices and applications that conform to the DICOM 3.0 standard.

The intended user of this document is involved with software design and system integration. It is understood that this individual is familiar with the concepts and terms used throughout this document. Readers unfamiliar with the DICOM 3.0 standard should consult the actual documentation prior to examining this conformance statement.

1.2. References and Definitions

All necessary references and definitions have been taken from the Digital Imaging and Communications in Medicine (DICOM) standard, parts 1 through 13 (NEMA PS 3.1-13).

1.3. Symbols and Abbreviations

All symbols and abbreviations used herein are described in the Digital Imaging and Communications in Medicine (DICOM) standard, parts 1 through 13 (NEMA PS 3.1-13).

1.4. Revision Number

Rev 1	March, 2004	First Release
-------	-------------	---------------

1.5. Considerations

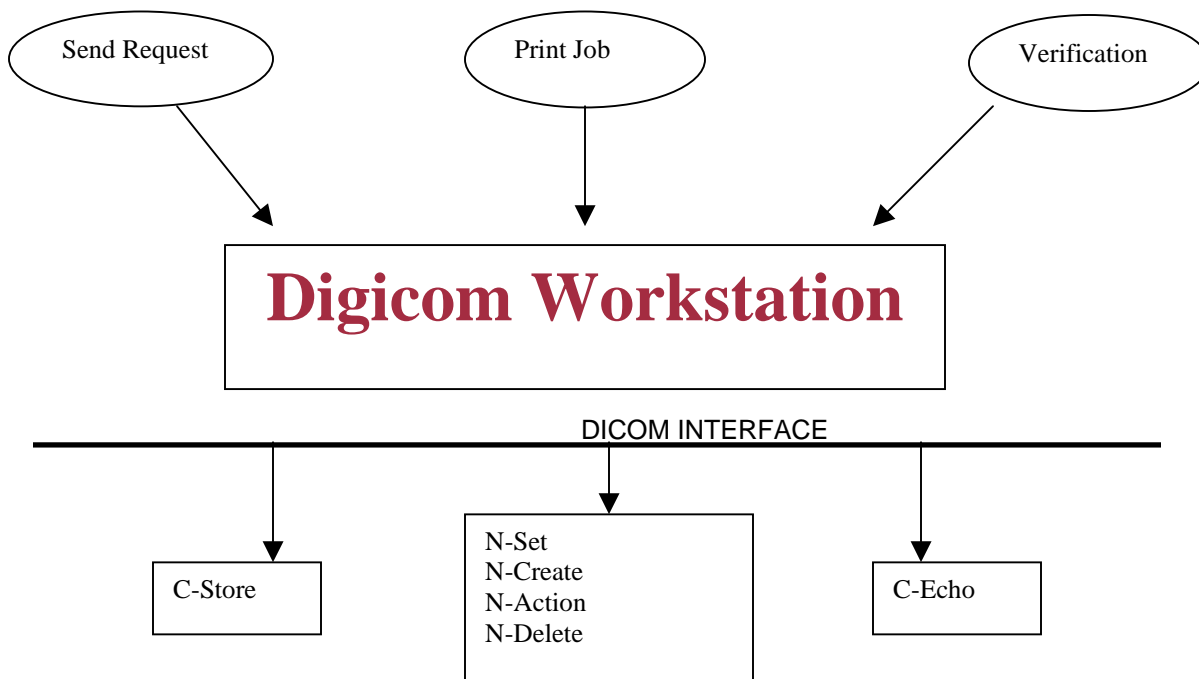
Readers should note the following points:

- This document on its own should not be interpreted as a guarantee of connectivity between Digicom Workstation and any equipment and/or applications offered by other vendors.
- Integration of Digicom Workstation with the equipment and/or applications of different vendors, including KUB Technologies, are outside the scope of the DICOM 3.0 standard and product conformance statements. Integration and interoperability of different equipment/applications are the sole responsibility of the user.
- In the case of any possible connectivity inferred by a user to exist between Digicom Workstation and another product, the user is responsible for testing and verifying the inferred connectivity.
- Future changes to the DICOM 3.0 standard may require alterations to be made to Digicom Workstation. KUB Technologies reserves the right to modify the Digicom Workstation architecture as needed, in order to meet changing standards.
- The user should ensure that any existing DICOM equipment also changes with the future developments of the DICOM standards. Failure to keep pace with any alterations in the DICOM standards may result in decreased or lost connectivity.
- All trade names mentioned in this document are recognized.

2. IMPLEMENTATION MODEL

2.1. Application Data Flow Diagram

The Implementation Model for the Digicom Workstation DICOM services is depicted below:



A number of Digicom Workstation's DICOM services are provided by the Digicom DICOM Server, which runs as a service (Windows NT/2000/XP Professional) or pseudo-service (Windows 95/98/Me) process. The Digicom DICOM Server starts when the software is started, and shuts down when the software is turned off. In addition, basic query/retrieve requests and print job submittals can be made by Digicom Workstation directly between SCU and SCP devices without being routed through the DICOM Server process. In addition, if the DICOM Server should be interrupted or manually shut down for some reason, queries and print submittals can still be made. The Digicom DICOM Server supports image reception and transmission as well as the processing of query/retrieve requests.

2.2. Functional Definitions of Application Entities

All communications and image transfer with the remote application is accomplished utilizing the DICOM protocol over a network using the TCP/IP protocol stack.

Below is a table of the functions supported by Digicom Workstation application entities:

SCU	SCP
<ul style="list-style-type: none"> • Verification • Storage • Query/Retrieve • Basic Grayscale Print Management • Modality Worklist Management 	<ul style="list-style-type: none"> • Verification • Storage • Query/Retrieve

2.3. Sequencing of Real World Activities

Not applicable.

3. APPLICATION ENTITY SPECIFICATIONS

3.1. AE Specifications for Digicom Workstation DICOM Services

The Digicom Workstation DICOM services provide support for the following DICOM V3.0 SOP Classes as an SCU:

SOP Classes as SCU	
SOP Class UID	SOP Class Name
Verification	
1.2.840.10008.1.1	Verification
Storage	
1.2.840.10008.5.1.4.1.1.1	CR Image Storage
1.2.840.10008.5.1.4.1.1.2	CT Image Storage
1.2.840.10008.5.1.4.1.1.4	MR Image Storage
1.2.840.10008.5.1.4.1.1.6	US Image Storage (Retired)
1.2.840.10008.5.1.4.1.1.6.1	US Image Storage
1.2.840.10008.5.1.4.1.1.7	SC Image Storage
1.2.840.10008.5.1.4.1.1.5	NM Image Storage (Retired)
1.2.840.10008.5.1.4.1.1.20	NM Image Storage
Query/Retrieve	
1.2.840.10008.5.1.4.1.2.2.1	Study Root Query/Retrieve Model – FIND
1.2.840.10008.5.1.4.1.2.2.2	Study Root Query/Retrieve Model – MOVE
Print Management	
1.2.840.10008.5.1.1.9	Basic Grayscale Print Management Meta

The Digicom Workstation DICOM services provide support for the following DICOM 3.0 SOP Classes as an SCP:

SOP Classes as SCP	
SOP Class UID	SOP Class Name
Modality Worklist Management	
1.2.840.10008.5.1.4.31	Modality Worklist Information Model-FIND
Verification	
1.2.840.10008.1.1	Verification
Storage	
1.2.840.10008.5.1.4.1.1.1	CR Image Storage
1.2.840.10008.5.1.4.1.1.2	CT Image Storage
1.2.840.10008.5.1.4.1.1.4	MR Image Storage
1.2.840.10008.5.1.4.1.1.6	US Image Storage (Retired)
1.2.840.10008.5.1.4.1.1.6.1	US Image Storage
1.2.840.10008.5.1.4.1.1.7	SC Image Storage
1.2.840.10008.5.1.4.1.1.5	NM Image Storage (Retired)
1.2.840.10008.5.1.4.1.1.20	NM Image Storage
Query/Retrieve	
1.2.840.10008.5.1.4.1.2.2.1	Study Root Query/Retrieve Model – FIND
1.2.840.10008.5.1.4.1.2.2.2	Study Root Query/Retrieve Model – MOVE
1.2.840.10008.5.1.4.1.2.1.1	Patient Root Query/Retrieve Model - FIND
1.2.840.10008.5.1.4.1.2.1.2	Patient Root Query/Retrieve Model - MOVE

3.1.1. Association Establishment Policies

3.1.1.1. General

The DICOM Application Context Name (ACN) that is always proposed by the Digicom Workstation DICOM services is 1.2.840.10008.3.1.1. The services shall offer a maximum PDU size of 32kB (32768 bytes) upon association initiation, and accept maximum PDU sizes up to 32kB (32768 bytes) on associations initiated by remote applications. There is no limit on the number of Presentation Context Items that will be proposed.

3.1.1.2. Number of Associations

Digicom Workstation can support multiple associations simultaneously, both as an SCP and as an SCU. As an SCP, the DICOM Server will listen for incoming associations and spawn a new process (a server “child”) to manage each request. By default, the maximum number of simultaneous associations is limited to 0. Users may increase this value as needed; however, one should expect performance to degrade if the maximum number of simultaneous associations is increased significantly beyond 10. As an SCU, Digicom Workstation can send images to multiple SCPs simultaneously, spawning a new thread for each destination. For DICOM print jobs, Digicom Workstation establishes associations sequentially.

3.1.1.3. Asynchronous Nature

Digicom Workstation does not support asynchronous operations. All operations will be performed synchronously.

3.1.1.4. Implementation Identifying Information

The Implementation Class UID is: 1.2.804.114118.3.
 The Implementation Version String is: DIGICOM.

3.1.2. Association Initiation Policy

Digicom Workstation initiates associations for the following activities:

- DICOM communication verification between Digicom Workstation and a remote system.
- Sending images from the local Digicom Workstation database to a remote system.
- Queries of remote database contents.
- Retrieval of images from a remote database to the local Digicom Workstation database.
- Print images.

3.1.2.1. Verify Communication with a Remote System

3.1.2.1.1. Associated Real World Activity

The user selects the verify service and uses it.

3.1.2.1.2. Proposed Presentation Contexts

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None

3.1.2.1.3. SOP Specific Conformance Statement for SOP Verification Class

Digicom Workstation provides standard conformance for DICOM communication verification.

3.1.2.2. Send Images to a Remote System

3.1.2.2.1. Associated Real World Activity

The user selects one or more studies from the search dialog and clicks the Send button. A list of AEs appear, from which the user selects one.

3.1.2.2.2. Proposed Presentation Contexts

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
CR Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
US Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
SC Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
NM Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None
NM Image Storage	1.2.840.10008.5.1.4.1.1.20	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None

3.1.2.2.3. SOP Specific Conformance Statement for SOP Image Storage Class

Images stored in the Digicom Workstation database that are to be sent to remote systems are converted to instances of the corresponding SOP Storage class(es). Images are then sent sequentially to the remote system(s). When sending multiple images to one remote system, a new association is negotiated for each patient. Digicom Workstation will only propose the transfer syntax of the stored SOP instance. Digicom Workstation cannot reformat the stored SOP into alternate syntaxes.

3.1.2.3. Query a Remote Database

Not available in this version

3.1.2.4. Print to a Remote Laser Imager

3.1.2.4.1. Associated Real World Activity

The user selects the desired format for printing and selects image(s) by drag & drop from the list of images on right. He or she selects the appropriate printer, makes any necessary changes to the printer settings, and then clicks Connect & Print.

3.1.2.4.2. Proposed Presentation Contexts

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Basic Grayscale Print Management Meta	1.2.840.1000.8.5.1.1.9	Implicit VR, Little Endian	1.2.840.10008.1.2	SCU	None

3.1.2.4.3. SOP Specific Conformance Statement for SOP Classes Basic Grayscale Print Management Meta Classes

Below (following page) are the mandatory print SOP classes supported by Digicom Workstation for the Basic Grayscale Management Meta class.

Basic Grayscale Print Management Meta Class: Supported SOP Classes	
SOP Class Name	SOP Class UID
Basic Film Session	1.2.840.10008.5.1.1.1
Basic Film Box	1.2.840.10008.5.1.1.2
Basic Grayscale Image Box	1.2.840.10008.5.1.1.4
Printer	1.2.840.10008.5.1.1.16
Print Job	1.2.840.10008.5.1.1.14

3.1.2.4.3.1. Conformance for SOP Class Basic Film Session

Digicom Workstation includes the following N-Create attributes for the Basic Film Session SOP class:

Basic Film Session SOP class N-CREATE: Attributes	
Description	Tag
Number of Copies	(2000,0010)
Print Priority	(2000,0020)
Medium Type	(2000,0030)
Film Destination	(2000,0040)

N-Set and N-Action are not used; however, N-Delete is used to delete the complete Basic Film Session SOP instance hierarchy.

3.1.2.4.3.2. Conformance for SOP Class Basic Film Box

The table below lists the N-Create attributes for the Basic Film Box SOP class, where M means the attribute is always sent and U means the attribute is only sent when not empty.

Basic Film Box SOP class N-CREATE: Attributes		
Description	Tag	Usage
Print Priority	(2000,0020)	U
Image Display Format	(2010,0010)	U
Referenced Film Session Sequence	(2010,0500)	M
> Referenced SOP Class UID	(0008,1150)	M
> Referenced SOP Instance UID	(0008,1155)	M
Film Orientation	(2010,0040)	U
Film Size ID	(2010,0050)	U
Magnification Type	(2010,0060)	M
Smoothing Type	(2010,0080)	U
Border Density	(2010,0100)	U
Trim	(2010,0140)	U

The N-Set is currently unused; however, the N-Action is used to print a complete Basic Film Box SOP instance and N-Delete is used to delete it after printing.

3.1.2.4.3.3. Conformance for SOP Class Basic Grayscale Image Box

The following attributes are included in Digicom Workstation's N-Set for the Basic Grayscale Image SOP class. Again, "M" stands for attributes, which are always sent to the printer, while "U" stands for attributes that are only sent when they contain data.

Basic Grayscale Image SOP Box: N-Set Attributes		
Description	Tag	Usage
Image Position	(2020,0010)	M
Preformatted Grayscale Image Sequence	(2020,0110)	M
> Samples Per Pixel	(0028,0002)	M
> Photometric Interpretation	(0028,0004)	M
> Rows	(0028,0010)	M
> Columns	(0028,0011)	M
> Pixel Aspect Ratio	(0028,0034)	M
> Bits Allocated	(0028,0100)	M
> Bits Stored	(0028,0101)	M
> High Bit	(0028,0102)	M
> Pixel Representation	(0028,0103)	M
> Pixel Data	(7FE0,0010)	M
Magnification Type	(2010,0060)	M
Smoothing Type	(2010,0080)	M
Polarity	(2020,0020)	M

Please note that Digicom Workstation supports 8 bit, 12 bit, and 16 bit printing.

3.1.2.4.3.4. Conformance for SOP Class Printer

Digicom Workstation uses N-GET for the Printer SOP class to get information from the SCP.

3.1.2.4.4. Optional SOP Classes for Basic Grayscale Print Management Meta

Digicom workstation supports Annotation & Overlay class

3.1.2.5. Retrieve a Modality Worklist from a Remote System

3.1.2.5.1. Associated Real World Activity

Digicom can query for a Modality Worklist to aid in merging patient demographics into DICOM images. This prevents the need to enter patient demographics manually.

3.1.2.5.2. Proposed Presentation Context

Presentation Context Table for Modality Worklist Management					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Modality Worklist Information Model-FIND	1.2.840.10008.5.1.4.31	Implicit VR Little Endian	1.2.840.1008.1.2	SCU	None

3.1.2.5.3. SOP Specific Conformance Statement for the Modality Worklist Management Class

Digicom provides standard conformance.

3.1.3. Association Acceptance Policy

Digicom Workstation accepts associations for the activities listed below:

- DICOM communication verification between Digicom Workstation and a remote system.
- Image transfer from a remote system to Digicom Workstation.
- Processing remote system queries.
- Initiation of image transfer to a remote system in response to a request for retrieval.

Digicom Workstation will reject association requests from unknown AEs that request an image transfer. Similarly, most remote systems will reject Digicom Workstation's association requests if the Digicom Workstation AE title is not correctly configured.

3.1.3.1. Verify Communication with a Remote System

3.1.3.1.1. Associated Real World Activity

Digicom Workstation will send an echo response to verification requests made by remote systems.

3.1.3.1.2. Accepted Presentation Contexts

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None

3.1.3.1.3. SOP Specific Conformance Statement for SOP Verification Class

Digicom Workstation provides standard conformance for DICOM communication verification.

3.1.3.1.4. Presentation Context Acceptance Criterion

Digicom Workstation will accept all presentation contexts, which match those of the preceding table (above). No specific acceptance and/or prioritization rules are required.

3.1.3.2. Receive Images from a Remote System

3.1.3.2.1. Associated Real World Activity

A remote system pushes (i.e., sends) images to Digicom Workstation. Upon completion of the transfer, the images are available locally and can be selected for display.

3.1.3.2.2. Accepted Presentation Contexts

Presentation Context Table for Receive from a Remote System					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
CR Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
US Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
SC Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
NM Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None
NM Image Storage	1.2.840.10008.5.1.4.1.1.20	Implicit VR, Little Endian	1.2.840.10008.1.2	SCP	None

3.1.3.2.3. SOP Specific Conformance Statement for SOP Storage Class

The Digicom Workstation AE conforms to the SOP's of the Storage SOP Class at Level 2 (full). No elements are discarded or coerced by the Digicom Workstation AE. In the case of a successful CSTORE operation the object has successfully been written to disk in the Digicom Workstation database. If an image is sent with the same SOP Instance UID (0008, 0018) as one that already exists on the Digicom Workstation AE, the new image will replace the old image and the database will be updated accordingly.

Lossy JPEG images will be stored in compressed form when received by Digicom Workstation and will only be uncompressed for viewing.

The Digicom Workstation AE responds to a C-STORE request with one of the response codes listed in below:

C-STORE RESPONSE CODES			
Service Status	Status Description	Status Code (0000,0900)	Related Fields
Error	Cannot understand: The message was not properly DICOM encoded, or the SOP class unrecognized. The request was not processed.	C010	None
Success	Success	0000	None

3.1.3.2.4. Presentation Context Acceptance Criterion

No criterion.

3.1.4. Digicom Workstation DICOM Media Services

Digicom Workstation conforms to DICOM Media Storage Service and File Format (PS 3.10) and the Media Storage Application Profiles (PS 3.11) for reading images on CD-Recordable media. The following application profile is supported by Digicom Workstation:

Supported Application Profile	
Description	Identifier
General Purpose CD-R Image Interchange Profile	STD-GEN-CD

Digicom Workstation, through its supported application profile (above), supports the real world activities listed below. Please note that some additional flexibility is also available.

Real World Activities		
Real World Activity	Role	SC Option
Display Directory of CD-R disk	FSR	Interchange
Read Image(s) from CD-R disk	FSR	Interchange
Create CD-R disk of images	FSC	Interchange

3.1.4.1. Real World Activity: Display Directory of CD-R Disk

Digicom Workstation assumes the role of FSR when reading the CD-R disk directory. Reading this directory will display an overview of the patients, studies, and images. The user must select the required patient and the images will be loaded.

3.1.4.2. Real World Activity: Read Images from CD-R Disk

When reading images from a CD-R, Digicom Workstation will assume the role of FSR. DICOM Part 10 Volume image import is standard. In order for Digicom Workstation to store the images contained on a CD-R correctly, the following mandatory DICOM image attributes (DICOM Part 10) are required:

Mandatory Keys: DICOM Part 10 File Import		
IOD	Field	Tag
Patient	Patient Name	(0010,0010)
Patient	Patient ID	(0010,0020)
Study	Study ID	(0020,0010)
Study	Study UID	(0020,000D)
Series	Modality	(0008,0060)
Series	Series Number	(0020,0011)
Image	Referenced SOP Class UID in File	(0004,1510)
Image	Referenced SOP Instance UID in File	(0004,1511)
Image	Referenced Transfer Syntax UID in File	(0004,1512)
Image	Referenced File ID	(0004,1500)
Image	Image Number	(0020,0013)

Digicom Workstation can only import and read images from the following SOP classes:

Supported SOP Classes: DICOM Part 10 Import			
Abstract Syntax		Transfer Syntax	
Name	UID	Name	UID
CR Image Storage	1.2.840.10008.5.1.4.1.1.1	Implicit VR, Little Endian	1.2.840.10008.1.2
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Implicit VR, Little Endian	1.2.840.10008.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Implicit VR, Little Endian	1.2.840.10008.1.2
US Image Storage (retired)	1.2.840.10008.5.1.4.1.1.6	Implicit VR, Little Endian	1.2.840.10008.1.2
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Implicit VR, Little Endian	1.2.840.10008.1.2
SC Image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR, Little Endian	1.2.840.10008.1.2
NM Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Implicit VR, Little Endian	1.2.840.10008.1.2
NM Image Storage	1.2.840.10008.5.1.4.1.1.20	Implicit VR, Little Endian	1.2.840.10008.1.2

3.1.4.3. Real World Activity: Write Images

The user selects a study from the Study Manager, and selects "Burn CD". Digicom Workstation can only create DICOMDIR files for DICOM compliant CD-R creation for the following SOP classes:

Supported SOP Classes: DICOM Part 10 Export			
Abstract Syntax		Transfer Syntax	
Name	UID	Name	UID
CR Image Storage	1.2.840.10008.5.1.4.1.1 .1	Implicit VR, Little Endian	1.2.840.10008.1.2
CT Image Storage	1.2.840.10008.5.1.4.1.1 .2	Implicit VR, Little Endian	1.2.840.10008.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1 .4	Implicit VR, Little Endian	1.2.840.10008.1.2
US Image Storage (retired)	1.2.840.10008.5.1.4.1.1 .6	Implicit VR, Little Endian	1.2.840.10008.1.2
US Image Storage	1.2.840.10008.5.1.4.1.1 .6.1	Implicit VR, Little Endian	1.2.840.10008.1.2
SC Image Storage	1.2.840.10008.5.1.4.1.1 .7	Implicit VR, Little Endian	1.2.840.10008.1.2
NM Image Storage (Retired)	1.2.840.10008.5.1.4.1.1 .5	Implicit VR, Little Endian	1.2.840.10008.1.2
NM Image Storage	1.2.840.10008.5.1.4.1.1 .20	Implicit VR, Little Endian	1.2.840.10008.1.2

4. COMMUNICATION PROFILE

4.1. Supported Communication Stacks

Digicom Workstation through TCP/IP supports DICOM Part 8.

4.2. OSI Stack

Digicom Workstation does not support OSI stack.

4.3. TCP/IP Stack

The TCP/IP stack supported by Digicom Workstation is inherited from the host operating system. (Windows 95 / 98 / NT / 2000 / XP Professional)

4.3.1. Physical Media Support

Any Windows 95/98/NT/2000/XP Professional supported physical media.

4.4. Point-to-Point Stack

Digicom Workstation does not support 50-pin ACR-NEMA connection.

5. EXTENSIONS/SPECIALIZATIONS/PRIVATIZATIONS

5.1. Standard Extended/Specialized/Private SOPs

Not applicable.

5.2. Private Transfer Syntaxes

Not applicable.

6. CONFIGURATION

Local AE titles are configurable.

6.1. AE Title/Presentation Address Mapping

Authorized personnel can configure the local AE title. Such personnel may change configurations through the settings of the Process Manager.

6.2. Configuration Parameters

The following fields are configurable for the local AE:

- Local AE Title
- Listening TCP/IP Port (default port is 104)
- Number of simultaneous connections

The following fields are configurable for any remote AE:

- Remote AE
- Remote TCP/IP Port
- Remote IP Address