



Image Star II
DICOM Conformance Statement

Image Star II DICOM Conformance Statement

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Preface

The intent of any DICOM conformance statement is to provide a knowledgeable user with the information required to determine whether and to what extent independent DICOM implementations may be able to inter-operate. However, the information contained in a DICOM conformance statement is not sufficient to ensure independent implementations will, in fact, be able to inter-operate.

The user or system integrator must be aware of the following potential issues related to interoperation:

- Using only the information provided by this Conformance Statement does not guarantee interoperability of LTI equipment with non-LTI equipment. It is the user's (or system integrator's) responsibility to analyze thoroughly the application requirements and objectives to determine if they can be met by the connection of LTI equipment to other equipment.
- LTI equipment has been tested to assure that the actual implementation of the DICOM interface corresponds with this Conformance statement. It is the responsibility of the user (or system integrator) to specify and carry out additional validation testing, which covers a broad spectrum of potential interactions between the independent implementations.
- LTI reserves the right to make changes to its products or to discontinue their delivery. Therefore, the user (or system integrator) should ensure that any future versions of LTI equipment are regression tested to verify that new software releases have not adversely impacted the ability to inter-operate.

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0 Introduction

This document provides the conformance statement for the LTI Image Star II product. Its purpose is to allow users of the Image Star II determine which optional components of the DICOM Standard are supported, including Service Classes, SOP Classes, communication protocols, roles, etc.

1 Implementation Model

1.1 Application Data Flow Diagram

The Application Data Flow diagram for the LTI Image Star II is shown in figure 1 and figure 2.

When the user selects the “Check Connection” option, the IWDISA AE or the IWDIPR AE will initiate an association for the purpose of verifying that a remote DICOM application is responding to requests.

The IWDISA AE or the IWDIPR AE will expect to receive an association when a remote system requests verification but will cause no local real world activity.

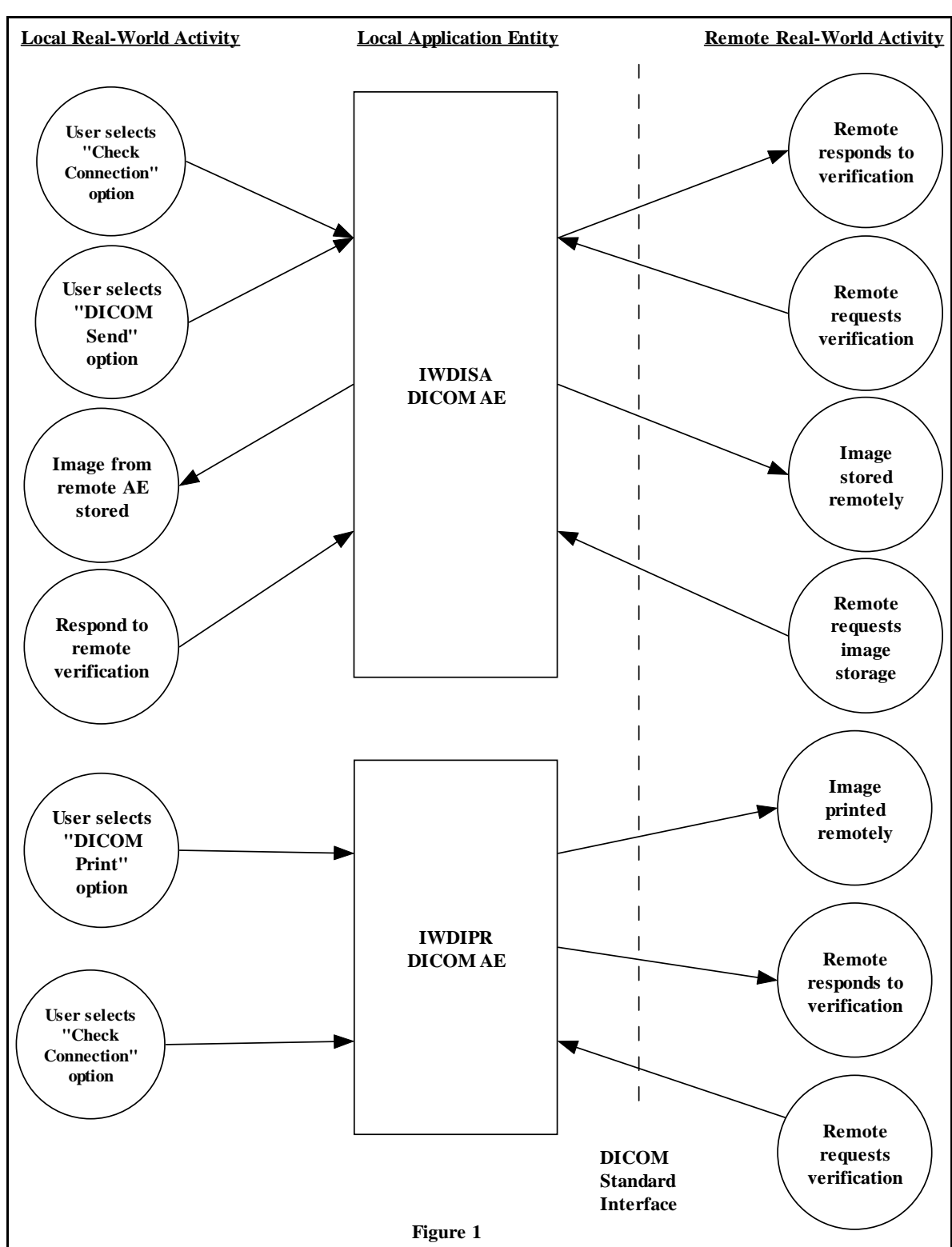
When the user selects the “DICOM Send” option, the IWDISA AE will initiate an association for the purpose of having an image stored remotely.

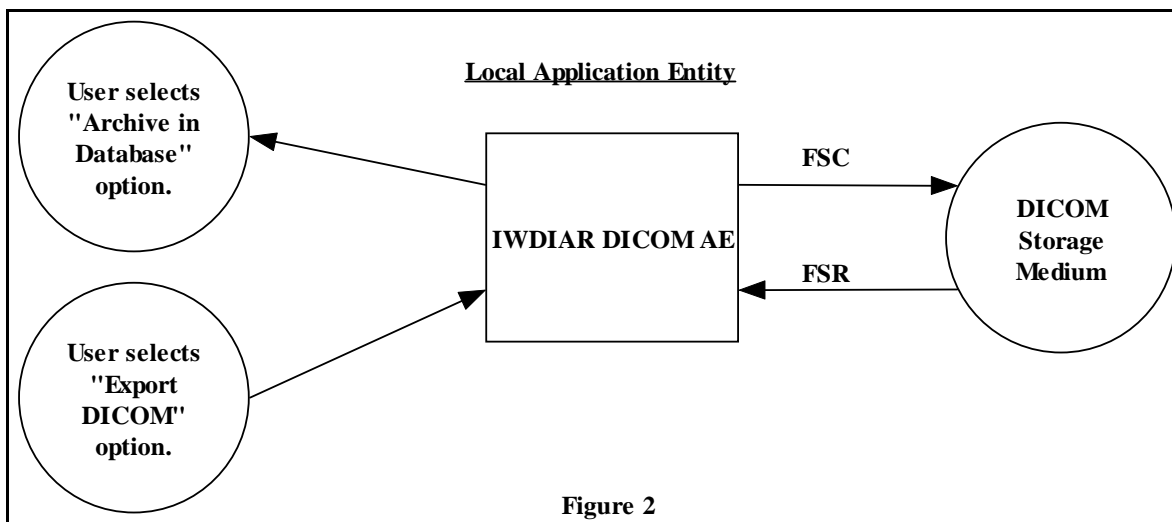
When the remote AE requests an association, the IWDISA AE will accept the association for the purpose of having an image received and stored locally.

When the user selects the “DICOM Print” option, the IWDIPR AE will initiate an association for the purpose of having an image printed remotely.

When the user selects the “Archive in Database” option, the IWDIAR AE will import SOP instances onto the local storage.

When the user selects the “Export DICOM” option, the IWDIAR AE will create a new file-set onto an unwritten medium.





1.2 Functional Definitions of Application Entities

The Image Star II DICOM Implementation Model consists of three application entities:

The IWDISA application entity provides the DICOM services related to network sending an image to be stored remotely, or network receiving an image to be stored locally.

The IWDIPR application entity provides the DICOM services related to remotely printing an image.

The IWDIAR application entity provides access for reading and creation of DICOM offline media.

1.3 Sequencing of Real-World Activities

Not Applicable.

2 Application Entity Specifications

2.1 IWDISA DICOM Application Entity Specification

The IWDISA AE provides Standard Conformance to the following DICOM V3.0 SOP Classes as a Service Class User (SCU):

SOP Class Name	SOP Class UID
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1
Verification	1.2.840.10008.1.1

The IWDISA AE also provides Standard Conformance to the following DICOM V3.0 SOP Classes as a Service Class Provider (SCP):

SOP Class Name	SOP Class UID
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1
Verification	1.2.840.10008.1.1

2.1.1 Association Establishment Policies

2.1.1.1 General

The IWDISA AE will always propose the DICOM Application Context Name (ACN), which is:

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

The default PDU size is 128 Kbytes.

2.1.1.2 Number of Associations

The IWDISA AE will request or accept only one association at a time.

2.1.1.3 Asynchronous Nature

Multiple outstanding transactions are not supported by the IWDISA AE.

2.1.1.4 Implementation Identifying Information

The IWDISA AE will provide the following Implementation Identifying Information in the User Information Field of the A-ASSOCIATE request primitive during association establishment:

Implementation Class UID	1.2.826.0.1.3680043.2.532.1
--------------------------	-----------------------------

The IWDISA AE will have an Implementation Version Name formed by appending the software version to the application entity name. For example, the Implementation Version Name for software version 1.0.0 will be "IWDISAv1.0.0".

2.1.2 Association Initiation Policies

The IWDISA AE will attempt to establish an association whenever the user selects the “DICOM Send” option or the “Check Connection” option. The operations will cause the initiation of an association with specified presentation contexts.

2.1.2.1 Real World Activity “User Selects ‘DICOM Send’ Option”

2.1.2.1.1 Associated Real-World Activity

When the user is viewing the stored studies in the Study Files Control program and selects the “DICOM Send” option, all the images of the selected studies will be queued for transfer. The IWDISA AE will initiate a connection with the remote node.

2.1.2.1.2 Proposed Presentation Contexts

The following table presents the Presentation Contexts which are proposed by the IWDISA AE for Real-World Activity “User Selects ‘DICOM Send’ Option”:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Process 14 (Selection Value 1)	1.2.840.10008.1.2.4.70	SCU	NONE
		Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	NONE

2.1.2.1.3 SOP Specific Conformance Statement for SOP Class X-Ray Angiographic Image Storage

The following table shows the Attributes that may be included when the IWDISA AE encodes an XA SOP Instance:

Module	Attribute Name	TAG	Type	Possible Values
Patient	Patient’s Name	0010,0010	2	
	Patient ID	0010,0020	2	
	Patient’s Birth Date	0010,0030	2	
	Patient’s Sex	0010,0040	2	
General Study	Study Instance IOD	0020,000D	1	
	Study Date	0008,0020	2	
	Study Time	0008,0030	2	“120000”

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	Referring Physician's Name	0008,0090	2	
	Physician(s) of Record	0008,1048	3	
	Study ID	0020,0010	2	
	Accession Number	0008,0050	2	NULL
	Study Description	0008,1030	3	NULL
Patient Study	Patient's age	0010,1010	3	
	Patient's size	0010,1020	3	
	Patient's weight	0010,1030	3	
	Occupation	0010,2180	3	
General Series	Modality	0008,0060	1	"XA"
	Series Instance UID	0020,000E	1	
	Series Number	0020,0011	2	
	Performing Physician's Name	0008,1050	3	
General Equipment	Manufacturer	0008,0070	2	" LTI"
General Image	Image Number	0020,0013	2	
	Patient Orientation	0020,0020	2C	NULL
Image Pixel	Samples per Pixel	0028,0002	1	1
	Photometric Interpretation	0028,0004	1	"MONOCHROME2"
	Rows	0028,0010	1	512 or 1024
	Columns	0028,0011	1	512 or 1024
	Bits Allocated	0028,0100	1	8
	Bits Stored	0028,0101	1	8
	High Bit	0028,0102	1	7
	Pixel Representation	0028,0103	1	0
Cine	Pixel Data	7FE0,0010	1	
	Cine Rate	0018,0040	3	
	Frame Time	0018,1063	1C	
Multi-Frame	Frame Time Vector	0018,1065	1C	Used in segmented Cines
	Number of frames	0028,0008	1	
X-Ray Image	Frame Increment Pointer	0028,0009	1	
	Image Type	0008,0008	1	"ORIGINAL\\PRIMARY\\SINGLE PLANE"
X-Ray Acquisition	Pixel Intensity Relationship	0028,1040	1	"DISP"
	KVP	0018,0060	2	
	Radiation Setting	0018,1155	1	"GR"
X-Ray Positioner	Exposure	0018,1152	2C	NULL
	Positioner Motion	0018,1500	2C	NULL
	Positioner Primary Angle	0018,1510	2	NULL
	Positioner Secondary Angle	0018,1511	2	NULL

SOP Common	SOP Class UID	0008,0016	1	XA IOD
	SOP Instance UID	0008,0018	1	

2.1.2.2 Real World Activity “User Selects ‘Check Connection’ Option”

2.1.2.2.1 Associated Real World Activity

When the user is viewing the stored studies in the Study Files Control program and selects the “Check Connection” option, the IWDISA AE will initiate a connection with the remote node.

2.1.2.2.2 Proposed Presentation contexts

The following table presents the Presentation Contexts which are proposed by the IWDISA AE for Real-World Activity “User Selects ‘Check Connection’ Option”:

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

2.1.2.2.3 SOP Specific Conformance Statement for SOP Verification SCU

The IWDISA AE provides standard conformance to the Verification SOP class.

2.1.3 Association Acceptance Policy

The IWDISA AE accepts new associations for C-ECHO and C-STORE DIMSE operations.

2.1.3.1 Real World Activity “Image From Remote AE Stored”

2.1.3.1.1 Associated Real World Activity

The IWDISA AE will accept associations for C-STORE DIMSE operations and archive the received images on the local database.

2.1.3.1.2 Presentation Context Table

The following table presents the Presentation Contexts which are accepted by the IWDISA AE for Real-World Activity “Image From Remote AE Stored”:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Process 14 (Selection Value 1)	1.2.840.10008.1.2.4.70	SCP	NONE
		Implicit VR Little Endian	1.2.840.10008.1.2	SCP	NONE
		Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	NONE

2.1.3.1.3 SOP Specific Conformance Statement for SOP Class X-Ray Angiographic Image Storage

If the IWDISA AE accepts the association for the X-Ray Angiographic Image Storage SOP Class and the C-STORE operation is concluded successfully, all the unknown private attributes will be discarded by the LTI application.

If an object instance received contains an identification that is already used by an object stored in the database, the actual received object will be discarded, the C-STORE operation will return a refused status(A700) and the association will be aborted. The existing image object is not superseded.

2.1.3.1.4 Presentation Context Acceptance Criterion

The LTI application will accept only one presentation context at a time.

2.1.3.1.5 Transfer Syntax Selection Policies

The preferred Transfer Syntax is configurable through the LTI software.

2.1.3.2 Real World Activity “Respond to Remote Verification”

2.1.3.2.1 Associated Real World Activity

The IWDISA AE will respond automatically to Verification requests from Remote AEs.

2.1.3.2.2 Proposed Presentation contexts

The following table presents the Presentation Contexts which are proposed by the IWDISA AE for Real-World Activity “Respond to Remote Verification”:

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

2.1.3.2.3 SOP Specific Conformance Statement for SOP Verification SCU

The IWDISA AE provides standard conformance to the Verification SOP class.

2.1.3.2.4 Presentation Context Acceptance Criterion

Not applicable.

2.1.3.1.5 Transfer Syntax Selection Policies

Not applicable.

2.2 IWDIPR DICOM Application Context Specification

The IWDIPR AE provides Standard Conformance to the following DICOM V3.0 SOP Classes as a Service Class User (SCU):

SOP Class Name	SOP Class UID
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9
Basic Color Print Management Meta SOP Class	1.2.840.10008.5.1.1.18

The IWDIPR AE does not provide conformance to any SOP classes as SCP.

2.2.1 Association Establishment Policies

2.2.1.1 General

The IWDIPR AE will always propose the DICOM Application Context Name (ACN), which is:

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

The default PDU size is 128 Kbytes.

2.2.1.2 Number of Associations

The IWDIPR AE will request or accept only one association at a time.

2.2.1.3 Asynchronous Nature

Multiple outstanding transactions are not supported by the IWDIPR AE.

2.2.1.4 Implementation Identifying Information

The IWDIPR AE will provide the following Implementation Identifying Information in the User Information Field of the A-ASSOCIATE request primitive during association establishment:

Implementation Class UID	1.2.826.0.1.3680043.2.532.1
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The IWDIPR AE will have an Implementation Version Name formed by appending the software version to the application entity name. For example, the Implementation Version Name for software version 1.0.0 will be “IWDIPRv1.0.0”.

2.2.2 Association Initiation Policies

The IWDISA AE will attempt to establish an association whenever the user selects the “DICOM Print” option or the “Check Connection” option. The operations will cause the initiation of an association with specified presentation contexts.

2.2.2.1 Real World Activity “User Selects ‘DICOM Print’ Option”

2.2.2.1.1 Associated Real-World Activity

When the user is viewing the study images in LTI report editor (IWEEditor) and selects the “DICOM Print” option, all selected images will be queued for transfer. The IWDIPR AE will initiate a connection with the remote node.

2.2.2.1.2 Proposed Presentation Contexts

The following table presents the Presentation Contexts which are proposed by the IWDIPR AE for Real-World Activity “User Selects ‘DICOM Print’ Option”:

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name	UID		
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE
Basic Color Print Management Meta SOP Class	1.2.840.10008.5.1.1.18	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	NONE

2.2.2.1.3 SOP Specific Conformance Statement for Printer SOP Class

Immediately after successful association negotiation, the Print SCU issues an N-GET-RQ message in order to retrieve the contents of the well-known Printer SOP Instance. The attribute identifier list element of the message remains empty which means that the Print SCP is requested to transmit the contents of all attributes of the well-known Printer SOP Instance.

The following table shows the Attributes that may be included when the IWDIPR AE performs an association:

SOP Class	Attribute Name	TAG	Usage	Possible Values
Basic Film Session	Number of Copies	2000,0010	U	Default is "1"
Basic Film Box	Image Display Format	2010,0010	M	Default is "STANDARD\1,1"
	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	Default is "PORTRAIT"
	Trim	2010,0140	U	"YES"
Basic Grayscale Image Box	Image Position	2020,0010	M	
	Preformatted Grayscale Image Sequence	2020,0110	M	
	>Samples Per Pixel	0028,0002	M	1
	>Photometric Interpretation	0028,0004	M	"MONOCHROME2"
	>Rows	0028,0010	M	512 or 1024
	>Columns	0028,0011	M	512 or 1024
	>Bits allocated	0028,0100	M	8
	>Bits Stored	0028,0101	M	8
	>High Bit	0028,0102	M	7
	>Pixel Representation	0028,0103	M	0
	>Pixel Data	7FE0,0010	M	
Basic Color Image Box	Image Position	2020,0010	M	
	Preformatted Color Image Sequence	2020,0111	M	
	>Samples Per Pixel	0028,0002	M	3
	>Photometric Interpretation	0028,0004	M	"RGB"
	>Rows	0028,0010	M	512 or 1024
	>Columns	0028,0011	M	512 or 1024
	>Bits allocated	0028,0100	M	8
	>Bits Stored	0028,0101	M	8
>High Bit	0028,0102	M	7	

	>Pixel Representation	0028,0103	M	0
	>Pixel Data	7FE0,0010	M	

2.2.2.2 Real World Activity “User Selects ‘Check Connection’ Option”

2.2.2.2.1 Associated Real World Activity

In the DICOM Print screen of the report editor the user can click on the “Check Connection” option. The IWDISA AE will then initiate a connection with the remote node.

2.2.2.2.2 Proposed Presentation contexts

The following table presents the Presentation Contexts which are proposed by the IWDIPR AE for Real-World Activity “User Selects ‘Check Connection’ Option”:

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

2.2.2.2.3 SOP Specific Conformance Statement for SOP Verification SCU

The IWDIPR AE provides standard conformance to the Verification SOP class.

2.2.3 Association Acceptance Policy

Not applicable.

2.3 IWDIAR DICOM Application Entity Specification

The IWDIAR AE provides Standard conformance to DICOM Interchange Option of the Media Storage Service Class.

Application Profiles Supported	Real World Activity	Role	SC Option
STD-GEN-CD	Archive in Database	FSR	Interchange
STD-XABC-CD STD-XA1K-CD	Export DICOM	FSC	Interchange

2.3.1 File Meta Information

Implementation Class UID	1.2.826.0.1.3680043.2.532.1
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2.3.2 Real World Activity “User selects ‘Archive in Database’ option”

The IWDIAR AE acts as an FSR when archiving in local database. For media conforming to the STD-GEN-CD Profile the following SOP classes will be supported as a FSR:

IOD	SOP Class UID	Transfer Syntax UID
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	JPEG Lossless Process 14 (Selection Value 1) 1.2.840.10008.1.2.4.70
		Implicit VR Little Endian 1.2.840.10008.1.2
		Explicit VR Little Endian 1.2.840.10008.1.2.1

2.3.3 Real World Activity “User selects ‘Export DICOM’ option”

The IWDIPR AE acts as a FSC(media not initialized) using the interchange option when requested to copy SOP Instances from the local storage to local Archive Medium.

The IWDIAR AE will not close the medium.

3 Communication Profiles

The Image Star II provides only DICOM V3.0 TCP/IP Network Communication Support as specified in PS3.8 (DICOM Part 8). Neither the OSI nor point-to-point stacks are supported with this implementation.

3.1 TCP/IP Stack

The TCP/IP stack used by this implementation is inherited from the Microsoft Windows XP Pro operating system on which it executes.

3.1.1 API

Not applicable.

3.1.2 Physical Media Support

The Image Star II DICOM application is indifferent to the physical medium over which TCP/IP executes; it inherits this from the Windows XP Pro system upon which it executes.

4 Extensions/Specializations/Privatizations

4.1 Standard Extended/Specialized/Private SOPs

Not applicable.

4.2 Private Transfer Syntaxes

Not applicable.

5 Configuration

The Image Star II maintains several configurable parameters which may be modified by a service person.

5.1 AE Title/Presentation Address Mapping

The default AE Title of the IWDISA AE is “IMAGE STAR”. The TCP Listen ports of the Image Star II are configurable.

The IP address and TCP Listen port for the Remote DICOM AE are configurable on the Image Star II.

The mapping of AE Titles to TCP/IP addresses and ports can be edited using the Image Star II Configuration tool.

5.2 Configurable Parameters

- Time-outs: Association (ARTIM) Timer (default = 50 seconds).
- Maximum PDU Length: SCP (default = 128 Kbytes), SCU (default = 128 Kbytes).
- Number of simultaneous associations supported (both accepted and proposed) (default = 10).

6 Support of Extended Character Sets

The Image Star II does not support the use of extended character sets.