GE Medical Systems

Technical Publications

Direction 2156879–100

Revision 0

DCR500–Cardiac Review Station DICOM Conformance Statement

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TABLE OF CONTENTS

SECTION	TITLE	PAGE
	REVISION HISTORY	iii
	LIST OF EFFECTIVE PAGES	iii
SECTION 1 – INTRODUCTION		**I–1**
1–0	Overview	I–1
1–1	Overall Conformance Statement Document Structure	I–1
1–2	Intended Audience	I–3
1–3	Scope and field of application	I–4
1–4	Important remarks	I–4
1–5	References	I–5
1–6	Definitions	I–5
1–7	Symbols and abbreviations	I–5
SECTION 2 – CONFORMANCE STATEMENT		**II–1**
2–0	INTRODUCTION	II–1
2–1	Implementation model	II–1
2–1–1	Application Data Flow Diagram	II–1
2–1–2	Functional Definition of AE's	II–2
2–1–2–1	DCR500–CRS DICOM Network Server AE	II–2
2–1–2–2	DCR500–CRS DICOM Media Server AE	II–3
2–1–3	Sequencing of Real–World Activities	II–3
2–1–4	File Meta Information for implementation Class and Version	II–3
2–2	AE Specifications	II–3
2–2–1	DCR500–CRS DICOM Network Server AE Specification	II–3
2–2–1–1	Association Establishment Policies	II–3
2–2–1–1–1	General	II–3
2–2–1–1–2	Number of Associations	II–4
2–2–1–1–3	Asynchronous Nature	II–4
2–2–1–1–4	Implementation Identifying Information	II–4
2–2–1–2	Association Initiation Policy	II–4
2–2–1–3	Association Acceptance Policy	II–4
2–2–1–3–1	Real–World Activity :"Image Install"	II–4
2–2–1–3–1–1	Associated Real–World Activity	II–4
2–2–1–3–1–2	Accepted Presentation Contexts	II–4
2–2–1–3–1–2–1	SOP Specific Conformance Statement for Verification SOP Class	II–5
2–2–1–3–1–2–2	SOP Specific Conformance Statement for Storage SOP Class	II–5
2–2–1–3–1–3	Presentation context acceptance criterion	II–6
2–2–1–3–1–4	Transfer syntax selection policies	II–6
2–2–2	DCR500–CRS DICOM Media Server AE	II–6
2–2–2–1	File Meta Information for the DCR500–CRS DICOM Media Server AE	II–6
2–2–2–2	Real World activities for the DCR500–CRS DICOM Media Server AE	II–6

TABLE OF CONTENTS (CONT'D)

SECTION	TITLE	PAGE
2–2–2–2–1	Real World Activity : Browse CD	II–6
2–2–2–2–1–1	Media Storage Application Profile for the RWA:Browse CD	II–7
2–2–2–2–2	Real World Activity :Restore CD	II–7
2–2–2–2–2–1	Media Storage Application Profile for the RWA: Restore CD	II–7
2–2–2–2–3	Real World Activity :Archive CD	II–7
2–2–2–2–3–1	Media Storage Application Profile for the RWA:Archive CD	II–7
2–3	Augmented and Private Profiles	II–8
2–3–1	Augmented Profiles	II–8
2–3–1–1	AUG–SC–STD–XABC–CD.	II–8
2–3–1–1–1	SOP Class Augmentations	II–8
2–3–1–1–2	Directory Augmentations	II–8
2–3–1–1–3	Other augmentations	II–8
2–4	Communication profiles	II–8
2–4–1	Supported Communication Stacks (parts 8,9)	II–8
2–4–2	TCP/IP Stack	II–8
2–4–2–1	API	II–8
2–4–2–2	Physical Media Support	II–8
2–4–3	Point–to–Point Stack	II–9
2–5	Extensions / specializations / privatizations	II–9
2–6	Configuration	II–9
2–6–1	AE Title/Presentation Address Mapping	II–9
2–6–2	Configurable Parameters	II–9
2–7	Support of extended character sets	II–9

REVISION HISTORY

REV	DATE	REASON FOR CHANGE
0	April 4, 1996	Add missing chapter 2.1.4.

LIST OF EFFECTIVE PAGES

PAGE NUMBER	REVISION NUMBER	PAGE NUMBER	REVISION NUMBER	PAGE NUMBER	REVISION NUMBER
Title Page	0				
Table of Contents i thru ii	0				
Revision History iii thru iv	0				
Introduction 1–1 thru 1–6	0				
Conformance Statement 2–1 thru 2–10	0				

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SECTION 1 – INTRODUCTION

1–0 OVERVIEW

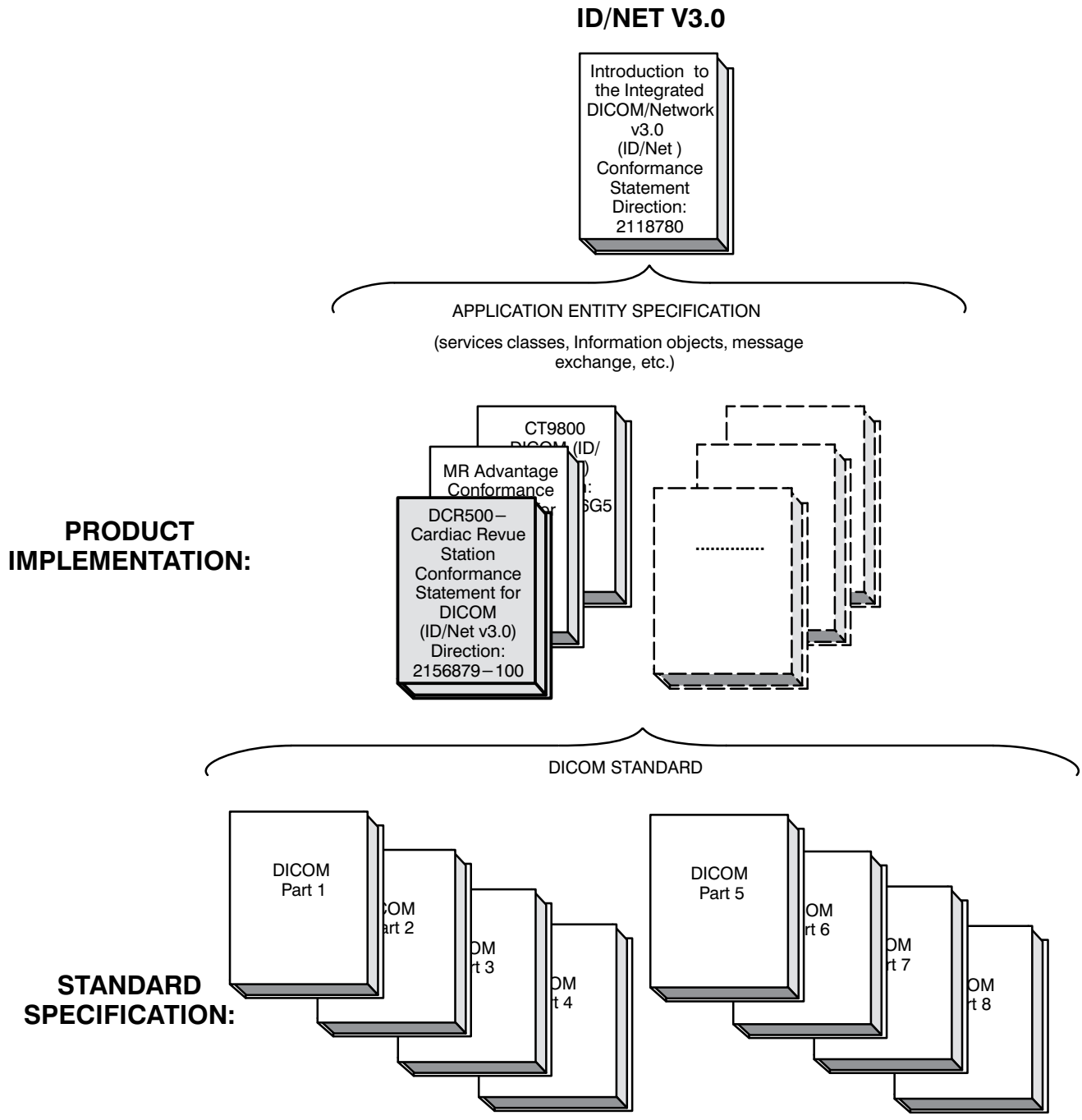
Section 1, *Introduction*, provides general information about the content and scope of this document.

Section 2, *Conformance Statement*, is the DICOM Conformance Statement related to this product. Conformance Statements defines the subset of options selected from those offered by the DICOM standard.

1–1 OVERALL CONFORMANCE STATEMENT DOCUMENT STRUCTURE

The Documentation Structure of the ID/Net v3.0 Conformance Statements and their relationship with the DICOM Conformance Statements is shown in Illustration 1–1.

ILLUSTRATION 1–1
DOCUMENTATION STRUCTURE



This document specifies the DICOM implementation. It is entitled:

DCR500–Cardiac Revue Station
Conformance Statement for DICOM (ID/Net v3.0)
Direction 2156879–100

This Conformance Statement documents the DICOM Conformance Statement and Technical Specification required to interoperate with the GEMS ID/Net v3.0 network interface. Introductory information, which is applicable to all GEMS ID/Net v3.0 Conformance Statements, is described in the document:

Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0)
Conformance Statement
Direction: 2118780.

This Introduction familiarizes the reader with DICOM terminology and general concepts. It should be read prior to reading the individual products' ID/Net v3.0 Conformance Statements.

The ID/Net v3.0 Conformance Statement, contained in this document, also specifies the Lower Layer communications which it supports (e.g., TCP/IP). However, the Technical Specifications are defined in the DICOM Part 8 standard.

For more information including Network Architecture and basic DICOM concepts, please refer to the *Introduction.*

For the convenience of software developers, there is "collector" Direction available. By ordering the collector, the Introduction described above and all of the currently published ID/Net v3.0 Product Conformance Statements will be received. The collector Direction is:

ID/Net v3.0 Conformance Statements
Direction: 2117016

For more information regarding DICOM, copies of the Standard may be obtained by written request or phone by contacting:

NEMA Publication
1300 N, 17th Street, Suite 1847
Rosslyn, VA 22209, USA
Phone: (703) 841–3285

1–2 INTENDED AUDIENCE

The reader of this document is concerned with software design and/or system integration issues. It is assumed that the reader of this document is familiar with the DICOM Standards and with the terminology and concepts which are used in those Standards.

If readers are unfamiliar with DICOM terminology they should first refer to the document listed below, then read the DICOM Standard itself, prior to reading this Conformance Statement document.

Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0)
Conformance Statement
Direction: 2118780

1–3 SCOPE AND FIELD OF APPLICATION

It is the intent of this document, in conjunction with the *Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement, Direction: 2118780*, to provide an unambiguous specification for GEMS ID/Net v3.0 implementations. This specification, called a Conformance Statement, includes a DICOM Conformance Statement and is necessary to ensure proper processing and interpretation of GEMS medical image data exchanged using DICOM. The GEMS ID/Net v3.0 Conformance Statements are available to the public.

The reader of this Conformance Statement should be aware that different GEMS devices are capable of using different Information Object Definitions. For example, a GEMS CT Scanner may send images using the CT Information Object, MR Information Object, Secondary Capture Object, etc.

Included in this Conformance Statement are the Module Definitions which define all data elements used by this GEMS ID/Net v3.0 implementation. If the user encounters unspecified private data elements while parsing a GEMS Data Set, the user is well advised to ignore those data elements (per the DICOM standard). Unspecified private data element information is subject to change without notice. If, however, the device is acting as a "full fidelity storage device", it should retain and re-transmit all of the private data elements which are sent by GEMS devices.

1–4 IMPORTANT REMARKS

The use of these Conformance Statements, in conjunction with the DICOM Standards, is intended to facilitate communication with GE imaging equipment. However, **by itself, it is not sufficient to ensure that inter–operation will be successful.** The **user (or user's agent)** needs to proceed with caution and address at least four issues:

- **Integration** – The integration of any device into an overall system of interconnected devices goes beyond the scope of standards (DICOM), and of this introduction and associated Conformance Statements when interoperability with non–GE equipment is desired. The responsibility to analyze the applications requirements and to design a solution that integrates GE imaging equipment with non-GE systems is the **user's** responsibility and should not be underestimated. The **user** is strongly advised to ensure that such an integration analysis is correctly performed.
- **Validation** – Testing the complete range of possible interactions between any GE device and non-GE devices, before the connection is declared operational, should not be overlooked. Therefore, the **user** should ensure that any non-GE provider accepts full responsibility for all validation required for their connection with GE devices. This includes the accuracy of the image data once it has crossed the interface between the GE imaging equipment and the non-GE device and the stability of the image data for the intended applications.
  Such a validation is required before any clinical use (diagnosis and/or treatment) is performed. It applies when images acquired on GE imaging equipment are processed/displayed on a non–GE device, as well as when images acquired on non–GE equipment is processed/displayed on a GE console or workstation.

- **Future Evolution** − GE understands that the DICOM Standard will evolve to meet the user's growing requirements. GE is actively involved in the development of the DICOM Standard. DICOM will incorporate new features and technologies and GE may follow the evolution of the Standard. ID/Net v3.0 is based on DICOM as specified in each ID/Net DICOM Conformance Statement. Evolution of the Standard may require changes to devices which have implemented DICOM. **In addition, GE reserves the right to discontinue or make changes to the support of communications features (on its products) reflected on by these ID/Net DICOM Conformance Statements.** The **user** should ensure that any non-GE provider, which connects with GE devices, also plans for the future evolution of the DICOM Standard. Failure to do so will likely result in the loss of function and/or connectivity as the DICOM Standard changes and GE Products are enhanced to support these changes.
- **To be kept informed of the evolution of the implementation described in this document, the User should register on the GE Internet Server, accessible via anonymous ftp, by entering his e−mail address (GE Internet Server Address: ftp.med.ge.com, 192.88.230.11)**
- **Interaction** − It is the sole responsibility of the **non-GE provider** to ensure that communication with the interfaced equipment does not cause degradation of GE imaging equipment performance and/or function.

1−5 REFERENCES

A list of references which is applicable to all ID/Net v3.0 Conformance Statements is included in the *Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement, Direction: 2118780.*

The information object implementation refers to the X_Ray Radiofluoroscopic Image Object Definition (DICOM Standard Supplement 6) to Part 3 (Information Object Definition)

1−6 DEFINITIONS

A set of definitions which is applicable to all ID/Net v3.0 Conformance Statements is included in the *Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement, Direction: 2118780.*

1−7 SYMBOLS AND ABBREVIATIONS

A list of symbols and abbreviations which is applicable to all ID/Net v3.0 Conformance Statements is included in the *Introduction to the Integrated DICOM/Network v3.0 (ID/Net v3.0) Conformance Statement, Direction: 2118780.*

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SECTION 2 – CONFORMANCE STATEMENT

2–0 INTRODUCTION

The DCR500–Cardiac Revue Station is part of the GEMnet™ DCR500 System. GEMnet™ is a digital image management system designed to eliminate the use of cine film in the cardiac catheterization lab. In addition to providing DICOM interchange on CD–R to support the cine replacement standard, GEMnet™ utilizes DICOM networking throughout the system to provide future upgrade paths.

This conformance statement (CS) specifies the GE DCR500–Cardiac Revue Station compliance to DICOM. It details the DICOM Service Classes and roles which are supported by this product.

Note that the format of this section strictly follows the format of DICOM Standard Part 2 (Conformance) Annex A. Please refer to that part of the standard while reading this section.

2–1 IMPLEMENTATION MODEL

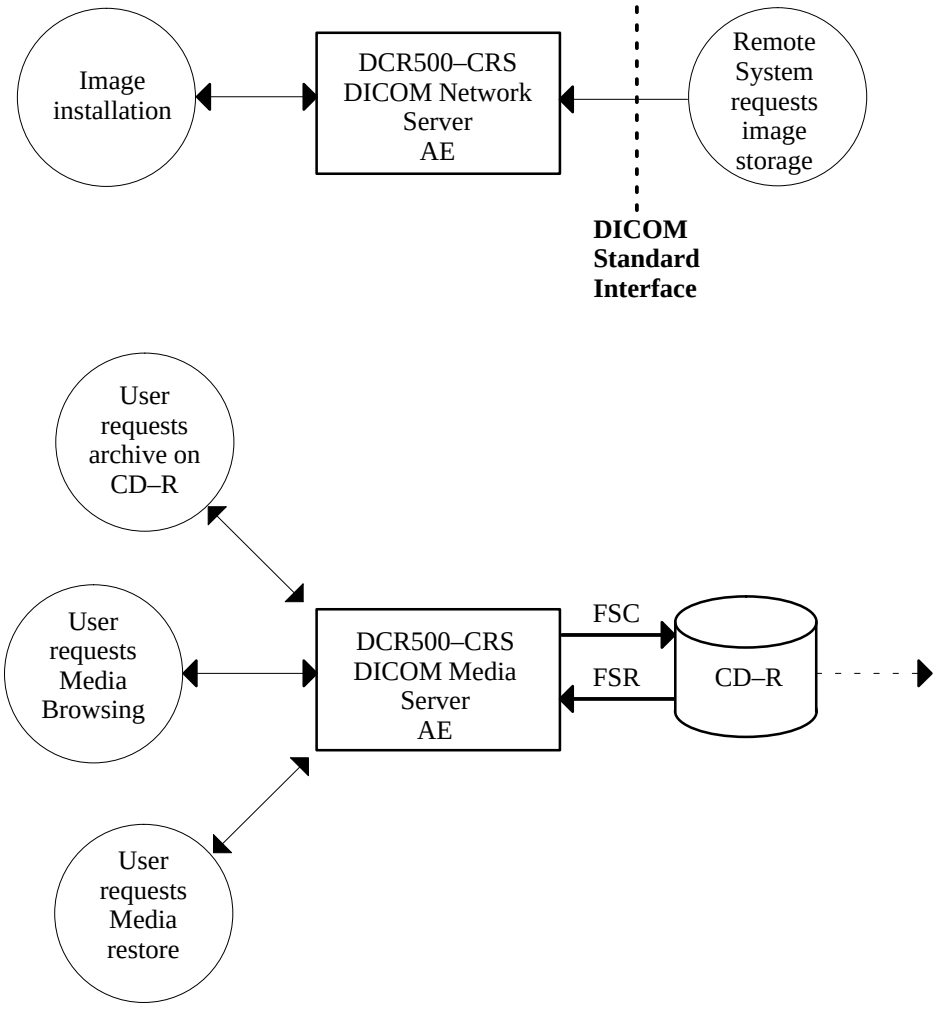
2–1–1 Application Data Flow Diagram

The DICOM network functionality on the DCR500–Cardiac Review Station system is handled by the DICOM Network Server Application Entity (AE). The DICOM Network Server AE is permanently listening to a predefined port for incoming connections. When the connection is established, images are transferred through the physical link and are installed on the DCR500–Cardiac Review Station disks. No user action is required for the DICOM Network Server Application Entity to respond to an incoming DICOM Store request. The DICOM Network Server Application Entity will perform image installation after the remote AE has sent an image to the DCR500–Cardiac Review Station.

The DICOM ARCHIVE/RESTORE functionality is handled by the DICOM Media Server Application Entity (AE). The DICOM Media Server Application Entity (AE) is commanded by the user to perform DICOM services operating on the DICOM media through the use of buttons and menu selections on the graphical user interface of the DCR500–Cardiac Review Station. User can request the creation of a DICOM file set and the writing of this DICOM File Set on a blank CD–R by selecting images in the local browser and selecting ”archive” button. User can request the reading of a DICOM file set written on a CD–R by selecting ”Browse” in the CD–R menu, and then ”restore selected items” in the CD–R Browser restore menu.

The Application models are shown in Illustration 2–1 .

ILLUSTRATION 2−1
SPECIFIC AE APPLICATION MODEL



2−1−2 Functional Definition of AE's

2−1−2−1 DCR500−CRS DICOM Network Server AE

The DCR500–CRS DICOM Network Server Application Entity supports the following function:

- Responds to DICOM associations containing images to be stored.

2−1−2−2 DCR500−CRS DICOM Media Server AE

The DCR500–CRS DICOM Media Server Application Entity supports the following functions:

- Has access to patient demographics and pixel data in the local database.
- Can generate a DICOM File Set (FSC).
- Can write a DICOM File Set on a CD–R.
- Can read a DICOM File Set (FSR) on a CD–R

2−1−3 Sequencing of Real−World Activities

Not Applicable

2−1−4 File Meta Information for implementation Class and Version

– File Meta Information Version is set to 1.
– Implementation Class UID is set to ”1.2.840.113619.6.17”
– Implementation version Name ”200300”

2−2 AE SPECIFICATIONS

2−2−1 DCR500−CRS DICOM Network Server AE Specification

This Application Entity provides Standard Conformance to the following DICOM SOP Classes as an SCP**:**

SOP Class Name	SOP Class UID
X−Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7

This Application Entity provides Standard Conformance to the following DICOM SOP Class as an SCP :

SOP Class Name	SOP Class UID
Verification Service Class	1.2.840.10008.1.1

2−2−1−1 Association Establishment Policies

2−2−1−1−1 General

The DICOM Application Context Name (ACN), which is always proposed, is:

Application Context Name	1.2.840.10008.3.1.1.1

The Maximum Length PDU negotiation is included in all association establishment requests.

The SOP class Extended Negotiation is not supported.

The maximum number of Presentation Contexts Items that will be proposed is 1.

The user info items sent by this product are:

- Maximum PDU Length
- Implementation UID

Note: Max PDU length can be configured at installation time.

2−2−1−1−2 Number of Associations

The DCR500–CRS DICOM Network Server AE will not support multiple associations open simultaneously.

2−2−1−1−3 Asynchronous Nature

Asynchronous mode is not supported. All operations will be performed synchronously.

2−2−1−1−4 Implementation Identifying Information

The Implementation UID for this ID/Net v3.0 Implementation is:

DCR500−CRS DICOM Network Server Implementation UID	1.2.840.113619.6.17

2−2−1−2 Association Initiation Policy

Not applicable

2−2−1−3 Association Acceptance Policy

When the DCR500–CRS DICOM Network Server AE accepts an association, it receives any images transmitted on that association and stores the images on disk. The DCR500–CRS DICOM Network Server AE places no limitations on who may connect to it.

2−2−1−3−1 Real−World Activity :"Image Install"

This AE is indefinitely listening for associations. No operator action is required to receive an image.

2−2−1−3−1−1 Associated Real−World Activity

The associated Real–World Activity associated with the C–STORE operation is the storage of the image on the disk of the DCR500–CRS.

2−2−1−3−1−2 Accepted Presentation Contexts

Any of the presentation Context shown in the following table is accepted by the DICOM Network Server AE.

TABLE 2–1
PRESENTATION CONTEXT

Presentation Context Table − Accepted					
Abstract Syntax		Transfer Syntax		Role	Expanded Negotiation
Name	UID	Name List	UID List		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Secondary Capture image Storage	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Secondary Capture image Storage	1.2.840.10008.5.1.4.1.1.7	Explicit VR Big Endian	1.2.840.10008.1.2.1	SCP	None
Xray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Xray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Explicit VR Big Endian	1.2.840.10008.1.2.1	SCP	None

2−2−1−3−1−2−1 SOP Specific Conformance Statement for Verification SOP Class

The DCR500–CRS DICOM Network Server AE provides standard conformance to the DICOM Verification Service Class.

2−2−1−3−1−2−2 SOP Specific Conformance Statement for Storage SOP Class

The DCR500–CRS DICOM Network Server AE conforms to the SOP's of the Storage Service Class at Level 2 (full).

Image reception

If the DCR500–CRS DICOM Network Server AE returns one of the following status codes, then the C–STORE operation was unsuccessful and no image will be installed:

- 0110 (Processing failure) Indicates that an internal system call has failed while processing the image.
- A700 (Out of resources) Indicates that there was not enough disk space or some other internal resource (such as memory) to store the image. The user should attempt recovery by removing some images from the DCR500–CRS DICOM Network Server AE.

In the event of a successful C–STORE operation, the image has successfully been written to disk. The image will then be accessed in the same manner as any other image by the applications on the DCR500–CRS.

Image may be deleted when instructed to do so by the user or when the image data is found to be not in conformance with the DICOM standard. Thus the duration of the storage of the image is determined by users of the DCR500–CRS.

Image installation

If the image installation process finds that an element is not encoded according to the DICOM standard, it will fail to install the image and the file will be removed.

If the image installation is unsuccessful, the image will not appear in the Local data base browser. No message is displayed on the DCR500–CRS.

DCR500–CRS will only successfully install Secondary Capture and Stand–alone Overlay images which have the modality field (0008, 0060) set to XA.

The following Type 2 elements are required in order for the DCR500–CRS workstation to install the image.

- Patient ID (0x0010,0x0020)
- Study ID (0x0020, 0x0010)
- Study Date (0x0008, 0x0020)
- Series Number (0x0020, 0x0011)
- Series Date (0x0008, 0x0021)
- Image number (0x0020, 0x0013)

2−2−1−3−1−3 Presentation context acceptance criterion

no criterion.

2−2−1−3−1−4 Transfer syntax selection policies

The Explicit Vr Big Endian transfer syntax is given priority over the others.

2−2−2 DCR500−CRS DICOM Media Server AE

The DCR500−CRS DICOM Media Server AE provides standard conformance to DICOM Interchange Option of the Media Storage Service Class. The application Profiles and roles are listed in table 2−2.

TABLE 2–2
DCR500−CRS DICOM Media Server AE Related Application Profiles, Real−World activities, and roles.

Supported Application profiles	Real−World activity	Roles	SC Option
STD−XABC−CD	BROWSE CD	FSR	Interchange
	RESTORE CD	FSR	Interchange
	ARCHIVE CD	FSC	Interchange
AUG−SC−STD−XABC−CD	BROWSE CD	FSR	Interchange
	RESTORE CD	FSR	Interchange
	ARCHIVE CD	FSC	Interchange

2−2−2−1 File Meta Information for the DCR500−CRS DICOM Media Server AE

Source Application Entity Title element is set to GEMnet in the files meta information.

2−2−2−2 Real World activities for the DCR500−CRS DICOM Media Server AE

2−2−2−2−1 Real World Activity : Browse CD

The DCR500−CRS DICOM Media Server AE acts as an FSR using the interchange option when requested to Browse the CD.

When the DCR500−CRS DICOM Media Server AE is requested to provide a directory listing it reads the File−set and displays the whole DICOMDIR directory entries.

If the DICOMDIR file is not found in the File–set the CD is ejected of the drive.

2−2−2−2−1−1 Media Storage Application Profile for the RWA:Browse CD

For the list of application profiles that invoke this AE for the Browse CD Real World Activity, see table 2–2. There are no extensions or specializations.

2−2−2−2−2 Real World Activity :Restore CD

The DCR500−CRS DICOM Media Server AE acts as an FSR using the interchange option when requested to copy SOP instances from the CD to the local data base.

The user selects the SOP instances that he wants the DCR500−CRS DICOM Media Server AE to copy on the local data base using the ”Browse CD” RWA and clicking on the corresponding entries. Once selected, the SOP instances are all copied from the media to the local data base.

All of the selected SOP instances are set to the Explicit Vr Big Endian transfer syntax before being installed in the local data base.

If the SOP instance does not match the application profile (see Table 2–2), an error is displayed indicating the non restored SOP instances or the corresponding directory entries.

2−2−2−2−2−1 Media Storage Application Profile for the RWA: Restore CD

For the list of application profiles that invoke this AE for the Browse CD RWA, see table 2–2. There are no extensions or specializations.

2−2−2−2−3 Real World Activity :Archive CD

The DCR500−CRS DICOM Media Server AE acts as an FSC using the interchange option when requested to copy SOP instances from the local data base to the CD.

The user has to insert a blank writable CD into the drive. Then the user selects the entries in the local database that he wants the DCR500−CRS DICOM Media Server AE to copy onto the CD.

Before writing the CD, the DCR500−CRS DICOM Media Server AE checks for the following conditions :

- The inserted media is blank and writable. If the condition is not met, an error is displayed and the CD is ejected.
- The corresponding SOP instances are checked to filter out the SOP instances that do not match the Application Profile.

- The corresponding SOP instances, once set according to the transfer syntax defined by the application profile, may fit on one or more CD's. The user is advised of both the total number of CD's needed, and when another CD needs to be inserted.

The corresponding SOP instances are set to the transfer syntax defined by the application profile and copied to the CD.

2−2−2−2−3−1 Media Storage Application Profile for the RWA:Archive CD

For the list of application profiles that invoke this AE for the Browse CD RWA, see table 2–2. There are no extensions or specializations.

2−3 AUGMENTED AND PRIVATE PROFILES

2−3−1 Augmented Profiles

DCR500−CRS DICOM Media Server AE supports one augmented Application profile: AUG−SC−STD−XABC−CD.

2−3−1−1 AUG−SC−STD−XABC−CD.

This Application Profile is an augmentation of the STD–XABC–CD Standard application profile. The augmentation add support for SC SOP Class.

2−3−1−1−1 SOP Class Augmentations

The following IODs are part of the AUG−SC−STD−XABC−CD. There are no requirements or restrictions on SOP options for these IODs beyond those in their standard definitions.

TABLE 2–3
IODS AND TRANSFER SYNTAXES FOR AUG−SC−STD−XABC−CD

Information Object Definition	SOP Class UID	Transfer Syntax	Transfer Syntax UID
Secondary Capture Image Storage.	1.2.840.10008.5.1.4.1.1.7	Explicit VR Big Endian	1.2.840.10008.1.2.2

This application profile does not place any further restrictions on options or extensions for any of these SOP classes. Any otherwise permissible SOP instance is acceptable for the AUG−SC−STD−XABC−CD profile.

2−3−1−1−2 Directory Augmentations

There are no additional directory keys, records, or options as part of this profile. None are required to be written using either FSU or FSC.

2−3−1−1−3 Other augmentations

None.

2−4 COMMUNICATION PROFILES

2−4−1 Supported Communication Stacks (parts 8,9)

DICOM Upper Layer (Part 8) is supported using TCP/IP.

2–4–2 TCP/IP Stack

The TCP/IP stack is inherited from a UNIX Operating System.

2–4–2–1 API

Not applicable to this product.

2–4–2–2 Physical Media Support

ATM Fiber Channel dual port SC connector.

2–4–3 Point–to–Point Stack

A 50–pin ACR–NEMA connection is not applicable to this product.

2–5 EXTENSIONS / SPECIALIZATIONS / PRIVATIZATIONS

None

2–6 CONFIGURATION

2–6–1 AE Title/Presentation Address Mapping

– AE title is configurable and is set by default to ”GEMnet.
– Host name is configurable and is set by default to ”GEMnet”
– IP number is configurable and is set by default to ”1.1.1.22”,
– Port number is configurable and is set by default to ”4006”.

2–6–2 Configurable Parameters

No AE parameters are configurable.

2–7 SUPPORT OF EXTENDED CHARACTER SETS

The DCR500–CRS AE’s will support only the ISO–IR–100 (ISO 8859–1:1987 Latin alphabet N 1. supplementary set). Any incoming SOP instance that is encoded using another extended character set will not be installed in the local database.

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