



VirtualPlace 3.10 Series
DICOM Conformance Statement
Revision 4.0

AZE, Ltd.

Date	Name	Comment
12/10/04	T. Tsukamura	New
04/30/04	T. Tsukamura	Revise for Transfer Syntax
09/06/05	T. Tsukamura	Setting for Limited items
07/08/09	M. Shinohara	Revise for Supported SOP Class
08/10/09	T. Tsukamura	Compliance with DICOM 2008

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0. Introduction

This conformance statement specifies the compliance of VirtualPlace 3.1 Series to DICOM. (hereinafter, referred to as VP3.1.)

It details the DICOM Service Class and the roles that are supported by the VP3.1. The VP3.1 uses the DICOM services to store images, to export images to other DICOM applications, to import images from other DICOM applications, and to print images to the DICOM-compliant printers.

1. Definitions and Abbreviations

[A E] DICOM Application Entity

[ACN] DICOM Application Context Name

[DICOM] Digital imaging and Communications in Medicine

[PDU] Protocol Data Unit

[SCU] DICOM Service Class User

[SCP] DICOM Service Class Provider

[SOP] Service Object Pair

[UID] Unique IDentifier

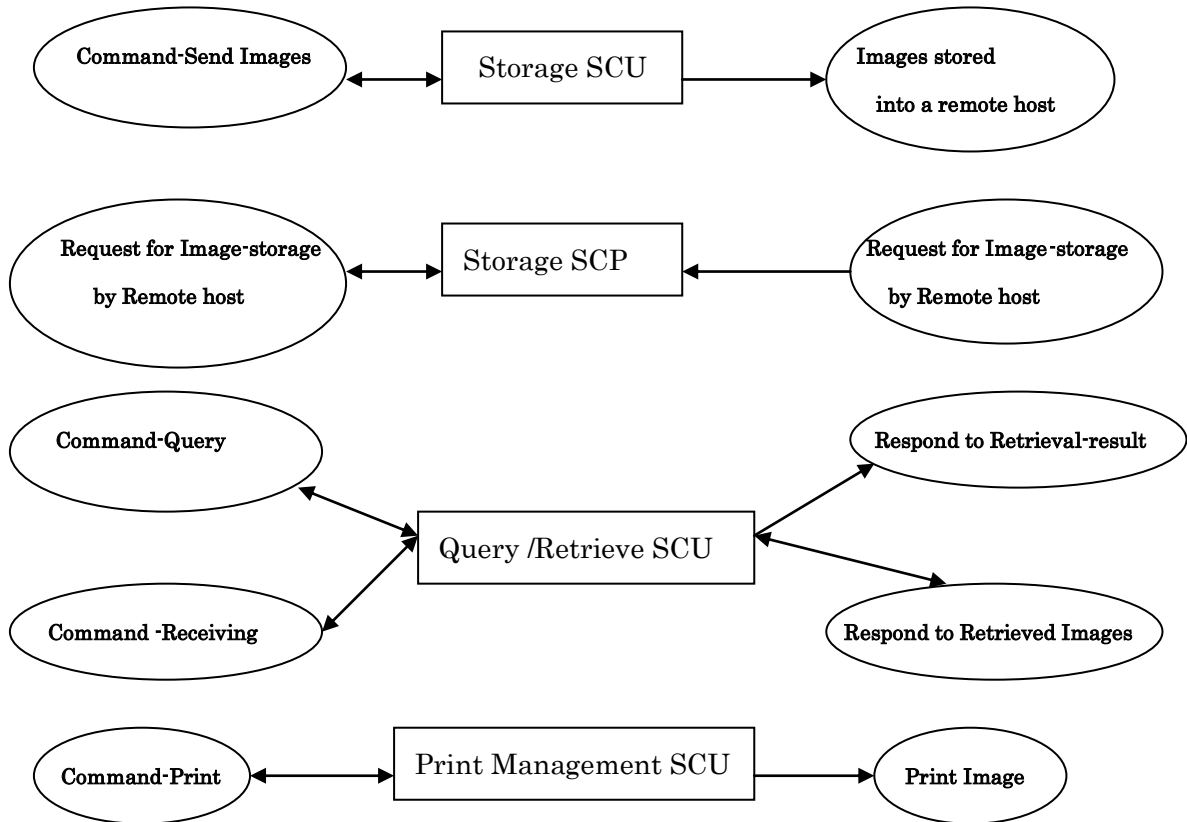
2. Implementation Model

The basic and specific application models for the VP3.1 are shown in the next page.

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2.1 Application Data Flow Diagram



The VP3.1 uses DICOM protocol to send images, to query studies /series/images, to print images, and to receive images from other host.

2.2 Functional Definition of AE's

The VP3.1 is related to the following Real World Activities:

- Send images to a remote host
- Receive images from remote hosts
- Query studies, series, or images from a remote host
- Print images to a remote DICOM printer

Users can send images at the Database Folder of the VP3.1. Users can query studies, series or images at the DICOM Query / Retrieve Folder of the VP3.1 by the specific Query / Retrieve Keys and Query / Retrieve Level.

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2.3 Fundamental Definitions of AE's

The VP3.1 supports the following functions:

- Access to patient demographics and pixel data in the local database.
- Initiate a DICOM association to send images to a remote host
- Respond to DICOM association to receive images from remote hosts
- Initiate a DICOM association to query studies from a remote host
- Initiate a DICOM association to print images to a remote host
- Store DICOM Part 10 format files into the local database.

2.4 Sequencing of Real-World Activities

Not Applicable

3. AE Specifications

3.1 SOP Classes Supported

-The VP3.1 Server AE provides standard conformance to the following SOP class in the roles specified:

SOP Class Name	SOP Class UID	VP3.1
Storage Service Class		<input type="radio"/>
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	<input type="radio"/>
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	<input type="radio"/>
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	<input type="radio"/>
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	<input type="radio"/>
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	<input type="radio"/>
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	<input type="radio"/>
Position Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	<input type="radio"/>
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	<input type="radio"/>
Storage X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	<input type="radio"/>
Verification Service Class		
Verification	1.2.840.10008.1.1	<input type="radio"/>

Table.1 -SOP Classes Supported as an SCP

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- VP3.1 provides conformance to the following SOP Classes as an SCU.

SOP Class Name	SOP Class UID	SV
Storage Service Class		
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	○
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	○
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	○
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	○
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	○
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	○
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	○
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	○
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	○
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	○
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	○
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	○
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	○
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	○
RT Branchy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	○
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	○
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	○
Stand-alone Curve Storage	1.2.840.10008.5.1.4.1.1.9	○
12-lead ECG Waveform storage	1.2.840.10008.5.1.4.1.1.9.1.1	○
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	○
Stand-alone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	○
Stand-alone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	○
Stand-alone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	○
Standalone PET Curve Storage	1.2.840.10008.5.1.4.1.1.129	○
Stored Print Storage	1.2.840.10008.5.1.4.1.1.27	○
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.1.6.1	○
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	○
Storage X-ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	○
Storage X-ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	○
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	○
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	○

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SOP Class Name	SOP Class UID	SV
VL Slide-coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	<input type="radio"/>
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	<input type="radio"/>
Basic Text SR	1.2.840.10008.5.1.4.1.1.88.11	<input type="radio"/>
Enhanced SR	1.2.840.10008.5.1.4.1.1.88.22	<input type="radio"/>
Comprehensive SR	1.2.840.10008.5.1.4.1.1.88.33	<input type="radio"/>
Digital X-Ray Image Storage-For Presentation	1.2.840.10008.5.1.4.1.1.1	<input type="radio"/>
Digital X-Ray Image Storage-For Processing	1.2.840.10008.5.1.4.1.1.1.1	<input type="radio"/>
Digital Mammography Image Storage-For Presentation	1.2.840.10008.5.1.4.1.1.1.2	<input type="radio"/>
Digital Mammography Image Storage-For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	<input type="radio"/>
Digital Intra-oral X-ray Image Storage-For Presentation	1.2.840.10008.5.1.4.1.1.1.3	<input type="radio"/>
Digital Intra-oral X-Ray Image Storage-For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	<input type="radio"/>
Query / Retrieve Service Class		
Query / Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	<input type="radio"/>
Study Root query / Retrieve Information model-MOVE	1.2.840.10008.5.1.4.1.2.2.2	<input type="radio"/>
Verification Service Class		
Verification	1.2.840.10008.5.1.1	<input type="radio"/>
Print Management Service Class		
Basic Color Print Management Meta	1.2.840.10008.5.1.18	<input type="radio"/>
Basic Grayscale Print management Meta	1.2.840.10008.5.1.1.9	<input type="radio"/>

Table2 -SOP Classes Supported as an SCU

3.1.1 Association Establishment Policies

3.1.1.1 General

The VP3.1 Server application will request associations and accept associations for DICOM Storage and Query/Retrieve. The support for the VP3.1 server application is as follows:

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

Application context Name	1.2.84.10008.3.1.1.1
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- A Maximum Length PDU negotiation is included in all association establishment requests. However, the maximum Length PDU for an association can not be greater than:

Maximum Length PDU	1000000 bytes
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- The called / calling AE title are established in the setting menu for the VP3.1

3.1.1.2 Number of Associations

- The number of supported associations depends on the SCU/SCP role of VP3.1
- The number of associations as an SCP is virtually unlimited, but it may be confined due to the system resource limit.

3.1.1.3 Asynchronous Nature

- The VP3.1 Asynchronous mode is not supported. All operations will be performed synchronously.

3.1.1.4 Implementation Identifying Information

- The VP3.1 Server uses the following Implementation Identifying Information,

Implementation Version Name	VPA_3***
Implementation Class UID	1.2.392.200103.1.1

3.1.1.5 Association Initiation Policy by Real-World Activity

- The VP3.1 initiates a new association to transfer images or query exams from other DICOM applications. This association corresponds to two Real-world Activities.
- C-ECHO-Request

3.1.1.6 Real-World Activity

- Send DICOM Images to others

3.1.1.7 Associated Real-World Activity

- Users can send all images of specified studies at the Database Folder of VP3.1 .
- Send C-ECHO-Request

3.1.1.8 Proposed Presentation Contexts

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Verification SOP Class	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table 3 -Transfer Syntax List-Proposed

3.1.1.9 Associated Real-World Activity

- Send Images to DICOM AE

3.1.1.10 Proposed Presentation Contexts

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
*	*	See “Transfer Syntax “ in Table 3		SCU	None

Table 4 -Presentation Context-Proposed

* Abstract syntax conforms SOP Class UID specified by instance

Name	UID
Implicit Little Endian	1.2.840.10008.1.2
JPEG Lossless, Non-Hierarchical, First-Order Prediction	1.2.840.10008.1.2.4.70

Table 5 - Transfer Syntax List-Proposed

3.1.1.11 SOP Specific Conformance for Image Storage SOP Classes

This implementation can perform multiple C-STORE operations over a single association.

- Upon receiving a C-STORE confirmation containing a Successful status, this implementation will perform the next C-STORE operation. The association will be maintained if possible.

- Upon receiving a C-STORE confirmation containing or Refused status, this implementation will terminate the association. The current C-STORE operation is considered as failed.
- Upon receiving a C-STORE confirmation containing a Warning status, this implementation will treat it as a Success response.

The following timers are related to the Image Storage SCU. These timers can be configured by editing.

3.1.1.12 Real-world Activity

- Query /Retrieve Study, Series and Image from others

3.1.1.13 Associated Real-World activity

- To require Query / Retrieve Folder to others

3.1.1.14 Proposed Presentation Contexts

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Study Root Query / Retrieve Model - Find	1.2.840.10008.5.1.4.1.2.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table 6- Transfer Syntax List-Propose

3.1.1.15 Attribute for Reference

- In case “Usage “ is described in the column for “Key”, the attribute will be queried by Key for Study/Series/Instance Level

Level	Description	Element Tag	Type	Key
Study	Patient ID	(0010,0020)	R	Use
	Patient's Name	(0010,0010)	R	Use
	Study ID	(0020,0010)	R	Use
	Study Date	(0008,0020)	R	Use
	Study Instance UID	(0008,000D)	U	

	Modality for study	(0008,1061)	O	
	Study Description	(0008,1030)	O	
	Patient' age	(0010,1010)	O	
Series	Modality	(0010,1060)	R	
	Series Number	(0020,0011)	R	
	Series Instance UID	(0020,1209)	U	Use
	Series Instance Number	(0020,1209)	O	
Instance	Instance Number	(0020,0013)	R	
	SOP Instance UID	(0008,0018)	O	

Table 7- Level Keys for Study / Series / instance for Patient Root Query/Retrieve Information model

3.1.1.16 Real-World Activity

- Retrieve Image from others

3.1.1.17 Associated Real-World activity

- Query images to others

3.1.1.18 Proposed Presentation Contexts

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Study Root Query / Retrieve Model-MOVE	1.2.840.10008.5.1.4.1.2.2.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table 8 - Presentation Context List-Proposed

Level	Description	Element Tag	Type
Study	Study Instance UID	(0020,000D)	U
Series	Series Instance UID	(0020,000E)	U
Instance	SOP Instance UID	(0008,0018)	U

Table 9 - Key Level for Study / Series/ Instance for Retrieve Information Model

3.1.1.19 Real-World Activity -Print Studies and Images to a DICOM compliant printer

3.1.1.20 Associated Real-World activity

VP3.1 allows the user to select the user to select images at its Viewer windows and print them into a DICOM-compliant printer. It also allows the user to manipulate some print parameters like the number of films and film format.

3.1.1.21 Proposed Presentation Contexts

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

Table 10 - Presentation Context List-Proposed

3.1.1.22 Basic Film Session SOP Class

The VP3.1 supports the following DIMSE Service Elements for Basic Film Session SOP Class.

N-CREATE-Requests to create an instance of Basic Film Session.

Attribute	DICOM Tag	Default Value
Number of Copies	(2000,0010)	1
Print Priority	(2000,0020)	Configurable
Medium Type	(2000,0030)	Configurable
Film Description	(2000,0040)	Configurable
Film Session Label	(2000,0050)	“VirtualPlace”

Table11- Attribute Values supported by Basic Film Session SOP Class

3.1.1.23 Basic Film Box SOP Class

- VP3.1 supports the following Service Elements for Basic Film Box SOP Class.

N-CREATE- Requests to create an instance of Basic Film Box.

N-ACTION-Requests to print the Film Box onto Printer.

N-DELETE-Requests to delete the Film Box instance.

Attribute	DICOM Tag	Default Value
Film Size Id	(2000,0050)	Configurable
Magnification Type	(2000,0060)	Configurable
Border Density	(2000,00100)	Configurable
Empty Image Density	(2000,00110)	Configurable
Min Density	(2000,00120)	Printer-dependent
Max Density	(2000,00130)	Printer-dependent
Trim	(2000,00140)	Configurable

Table12 - Attribute Values supported by Basic Film Box SOP Class

3.1.1.24 Basic Grayscale Image Box SOP Class

The Print SCU supports the following DIMSE Service Elements for Grayscale Image Box SOP Class.

- N-SET-Requests the Printer to set the image box attributes.

SOP Class Name	SOP Class UID
Basic Film Session SOP Class	1.2.840.10008.5.1.1.1
Basic Film Box SOP Class	1.2.840.10008.5.1.1.2
Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4
Printer SOP Class	1.2.840.10008.5.1.1.16

Table 13-Mandatory Print SOP Classes supported by the Grayscale Print SCU

Attribute	DICOM Tag	Default Value
Image Position	(2020,0010)	Image-dependent
Polarity	(2020,0020)	Non-Configurable
Preformatted Grayscale Image Sequence	(2020,00110)	Non-Configurable
Samples per Pixel	(0028,0002)	1
Photometric Interpretation	(0028,0004)	MONOCHROME2
Rows	(0028,0010)	Image-dependent
Columns	(0028,0011)	Image-dependent

Pixel Aspect Ratio	(0028,0034)	1¥1
Bits Allocated	(0028,0100)	8
Bits Stored	(0028,0101)	8
High Bit	(0028,0103)	7
Pixel Representaion	(0028,0102)	0
Pixel Data	(7FE0,0010)	Image-dependent

Table14 -Attribute Values supported by Basic Grayscale Image Box SOP class

3.1.1.25 SOP Specific Conformance for Basic Color Print

- VP3.1 supports the following mandatory SOP Classes which are defined under the Basic Color Print Management Meta SOP Class.

SOP Class Name	SOP Class UID
Basic Film Session SOP Class	1.2.840.10008.5.1.1.1
Basic Film Box SOP Class	1.2.840.10008.5.1.1.2
Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4
Printer SOP Class	1.2.840.10008.5.1.1.16

Table15 - Mandatory Print SOP Classes supported by the Color Print SCU

- VP3.1 supports the following DIMSE Service Elements for Basic Color Image Box SOP Class

Attribute	DICOM Tag	Default Value
Image Position	(2020,0010)	Image-dependent
Polarity	(2020,0020)	Non-Configurable
Preformatted Grayscale Image Sequence	(2020,00110)	Non-Configurable
Samples per Pixel	(0028,0002)	1
Photometric Interpretation	(0028,0004)	MONOCHROME2
Rows	(0028,0010)	Image-dependent
Columns	(0028,0011)	Image-dependent
Pixel Aspect Ratio	(0028,0034)	1¥1
Bits Allocated	(0028,0100)	8
Bits Stored	(0028,0101)	8
High Bit	(0028,0103)	7

Pixel Representaion	(0028,0102)	0
Pixel Data	(7FE0,0010)	Image-dependent

Table16- Attribute Values supported by Basic Color Image Box SOP Class

*Printer-dependent

3.1.1.26 Association Acceptance Policy

3.1.1.27 Real-World Activity

- Receive ECHO

3.1.1.28 Associated Real World Activity

- Upon receiving a C-ECHO confirmation, this implementation will be sent, as a “Success” response.

3.1.1.29 Presentation Context Table

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Verification SOP Class	1.2.840.10008.5.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None

Table17 - Presentation Context List-Proposed

3.1.1.30 Real-World Activity

- Receive DICOM Image from others

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
See Table 3.1.1		See Table 2.1.1.9		SCP	None

Table18 - Presentation Context List-Proposed for SOP Class

3.1.1.31 Transfer Syntax Selection Policies

Protocol Codes	Status Code	Description
0000	Success	-
A900	Failed	Cannot store image

*Priority for Transfer Syntax is dependent on configuration

3.1.1.32 SOP specific for Query/Retrieve (FIND SCP) SOP Class

3.1.1.33 Associated Real World Activity

The internal database is queried after receiving request from a remote AE, and any required response will be sent back.

3.1.1.34 Acceptable Presentation Context

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Study Root Query / Retrieve Model - Find	1.2.840.10008.5.1.4.1.2.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table19 - Presentation Context-Acceptable

3.1.1.35 SOP Specific Conformance for Root FIND.

- The following required and optional keys are supported for study Root FIND.

In case “Usage “ is described in the column for “Key”, the attribute will be queried by Key for Study/Series/Instance Level

Level	Description	Element Tag	Type	Key
Study	Patient ID	(0010,0020)	R	Use
	Patient's Name	(0010,0010)	R	Use
	Study ID	(0020,0010)	R	
	Study Date	(0008,0020)	R	Use
	Study Instance UID	(0008,000D)	U	
	Modality for study	(0008,1061)	O	
	Study Description	(0008,1030)	O	
	Patient' age	(0010,1010)	O	
Series	Modality	(0010,1060)	R	
	Series Number	(0020,0011)	R	
	Series Instance UID	(0020,1209)	U	Use
	Series Instance Number	(0020,1209)	O	

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Instance	Instance Number	(0020,0013)	R	
	SOP Instance UID	(0008,0018)	O	

Table20 - Level Keys for Study / Series / instance for Patient Root
Query/Retrieve Information model

* In case the proposed presentation context is the same as Table 7, it will be acceptable.

3.1.1.36 Transfer Syntax Selection Policies

-Configuration-dependent

3.1.1.37 Query/Retrieve for Patient Root FIND

- Not Query based on the constitutional unit

3.1.1.38 C-MOVE Requests for Remote AE

- The supported Storage Service Class SOP Classes for C-MOVE are the same as those supported by the VP3.0 Server AE.

-The internal database is queried C-MOVE request from a remote AE and the result will be sent.

3.1.1.39 Presentation Context Acceptance for Find and Move

-The presentation contexts listed in the following table will be accepted.

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
SOP Class Name	SOP Class UID	Name	UID		
Study Root Query / Retrieve Model-MOVE	1.2.840.10008.5.1.4.1.2.2.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

Table21 - Presentation Context List-Acceptance

4. Communication Profiles

4.1 Supported Communication Stacks

- DICOM Upper Layer(Part8) is supported using TUP/IP.

4.2 TCP/IP Stack

- The TCP/IP stack is inherited from the Microsoft Windows2000 Server operating system.

4.3 Physical Media Support

- DICOM is indifferent to physical medium over which TCO/IP executes (e.g. Ethernet, Fast-Ethernet, FDDI, ATM, etc,)

4.4 Point-to-Point Stack

Not Applicable

5. Extensions/Specialization/Privatization

5.1 Standard Extended/Specialized/Private SOPs

None Supported

5.2 Private Transfer Syntaxes

None Supported

6. Configuration

6.1 AE Title/Presentation Address Mapping

The local AE title is configurable in the Setting menu.

6.2 Configuration parameters

- Local AE Title
- Local IP Address
- Local TCP Port Number
- Accept/Reject Policy for unknown called/calling AE Title

DICOM Conformance Statement



7. Support of Extended Character Sets

7.1 This implementation supports the extended character set:

- ASCII (ISO IR 6)
- JIS X 02011 (ISO 2022 IR 14)
- JIS X0208 (ISO 2022 IR 87)