

**CE 0434**

# **VXvue**

**DICOM Conformance Statement**

**(For Veterinary Use)**



vieworks



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## Revision History

Version	Date	Description
1.1	2012-10-18	Initial Release



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# 1. Introduction

## 1.1 Intended Audience

The user of this document is involved with system integration and/or software design.

We assume that the reader is familiar with the terminology and concepts that are used in the DICOM 3.0 standard.

Readers not familiar with DICOM 3.0 terminology should first read the appropriate parts of the DICOM standard itself, prior to reading this conformance statement.

## 1.2 Purpose

This document is the DICOM Conformance Statement for the DICOM services of the VXvue as an acquisition modality.

Its purpose is to specify compliance with the DICOM standard on the following VXvue supported service classes.

- Digital X-Ray image storage – for presentation service class as an SCU.
- Modality worklist service class as an SCU.
- Basic grayscale print management meta service class as an SCU.

## 1.3 Sources

ACR-NEMA Digital Imaging and Communications in Medicine (DICOM) V3.0 Current.

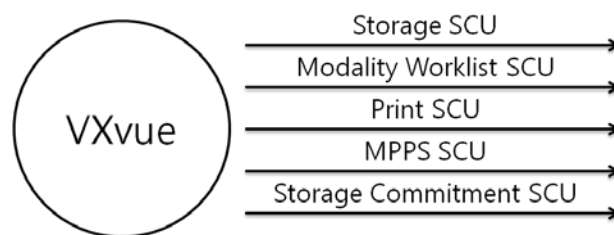


## 2. Implementation Model

The VXvue is a point-to-point image acquisition device for image transmission, storage between DICOM modalities and the DICOM network.

### 2.1 Application Data Flow Diagram

The Basic and Specific Application models for this device are shown in the following Illustration.



### 2.2 Functional Definitions of AE's

#### 2.2.1 Storage SCU

VXvue storage SCU is implemented as an application entity for transmitting DX images.

The DICOM Storage Service of DX image is used to send demographic information and pixel data to an external image manager.

- Initiate a DICOM association to send the SC IOD.
- Issue a C-STORE service.
- Send the IOD with the pixel data processed as defined in the configuration of the external user.
- Access the local database to update the exam information.
- Close the Association.

#### 2.2.2 Modality Worklist SCU

VXvue Modality Worklist SCU is implemented as an application entity for retrieving the Modality Worklist from the Department System Scheduler/Order Filler. The DICOM C-Find Service of MWL is used to request the scheduled procedure steps.

- Initiate a DICOM association to request the Modality Worklist.
- Issue a C-FIND request with the requested attributes IOD.
- Send the IOD to the Department System Scheduler/Order Filler.
- Access the local database to add or update the scheduled objects.
- Close the Association.



### 2.2.3 Basic Grayscale Print Management Meta SCU

VXvue Basic Print Management Meta SCU is implemented as an application entity for printing DX images. The DICOM Basic Print Management Meta Service is used to print demographic information and pixel data to an external film printer.

- Initiate a DICOM association to send the SC IOD.
- Issue N-GET request to get printer attributes.
- Issue N-CREATE request to create BASIC FILM SESSION.
- Issue N-CREATE request to create BASIC FILM BOX.
- Issue N-ACTION request to print the BASIC FILM BOX.
- Issue N-DELETE request to delete current FILM BOX.
- Access the local database to update the exam information.
- Close the Association.

### 2.2.4 Modality Performed Procedure Step SCU

Modality Performed Procedure Step SCU is implemented as an application entity for information of acquiring images.

The Modality Performed Procedure Step is used to notify image's acquisition steps.

- Initiate a DICOM association to request the MPPS SCP.
- Issue a C-CREATE request with the requested MPPS IOD.
- Send the IOD to the Department System Scheduler/Order Filler and Image Manager.
- Close the Association.
- Initiate a DICOM association to request the MPPS SCP.
- Issue a N-SET request with the requested MPPS IOD.
- Send the IOD to the Department System Scheduler/Order Filler and Image Manager.
- Close the Association.

### 2.2.5 Storage Commitment SCU

Storage Commitment SCU is implemented as an application entity for transferred DR images which is correctly sent.

- Initiate a DICOM association to request the Storage Commitment SCP.
- Issue N-ACTION request.
- Receive N-EVENT\_REPORT.
- Close the Association.



## 3. AE Specification

### 3.1 Supported Services

VXvue provides Standard Conformance to the DICOM V3.0 SOP Classes as an SCU.

SOP Class Name	SOP Class UID
Verification SOP Class	1.2.840.10008.1.1
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9
Standard Digital X-ray Image Storage (For Presentation)	1.2.840.10008.5.1.4.1.1.1.1

#### 3.1.1 Association Establishment Policies

##### 3.1.1.1 General

Before any SOP Classes can be exchanged between the VXvue (SCU) and the SCP, an association stage takes place to negotiate the capabilities of the SCU and SCP.

The maximum PDU length for an association initiated by the VXvue is 16384 bytes.

##### 3.1.1.2 Number of Associations

The VXvue opens one association for querying worklist items, but can different associations for archiving to multiple destinations simultaneously.

There is no inherent limit to the number of associations other than limits imposed by the computer operating system.

##### 3.1.1.3 Asynchronous Nature

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



### 3.1.1.4 Implementation Identifying Information

The VXvue SCU will respond with the following implementation identifying parameters:

Implementation Class UID	Implementation Version Name
1.3.6.1.4.1.19719	-

All associations will be use a single implementation Class UID.

### 3.1.2 Association Initiation Policy

VXvue attempts to initiate a new association for every service.

#### 3.1.2.1 Proposed Presentation Context table

Presentation Context Table – Proposed				
Abstract Syntax		Transfer Syntax		Role
SOP Class Name	SOP Class UID	Transfer Syntax Name	UID	
Verification	1.2.840.10008.1.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU
Standard Digital X-ray Image Storage (For Presentation)	1.2.840.10008.5.1.4.1.1.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU

#### 3.1.2.2 Called/Calling AE titles

This can be modified during configuration via a configuration setting. The calling AE title is case sensitivity.

#### 3.1.2.3 Association Initiation by Real World Activity

##### Storage

The VXvue DX image storage AE initiates a new association for each set of images it needs to transfer.

If the SCP AE rejects association, then the VXvue issues a warning message.





### **Modality Worklist**

The VXvue Worklist SCU AE initiates a separate association for each Worklist of items to be obtained. If the SCP AE rejects association, then the VXvue issues a warning message.

### **Basic Grayscale Print Management Meta**

The VXvue DX image storage AE initiates a new association for each set of images it needs to print. If the SCP AE rejects association, then the VXvue issues a warning message.

### **Modality Performed Procedure Step**

The VXvue AE supports Modality Performed Procedure Step(MPPS) in the role of SCU. This system is capable of displaying scheduled procedure steps via the user interface for Modality Performed Procedure Step.

The Operator can notify the MPPS server that a MPPS is 'In Progress', 'Discontinued' or 'Completed'. The user is also allowed to append procedure steps to existing or previously completed procedure steps.

### **Storage Commitment**

The VXvue DX supports Storage Commitment Push Model SOP class to inform servers when all the store operations for a study have been completed. The Storage Commitment SCU uses the N-ACTION primitive to request safekeeping of a set of SOP instances. The Storage Commitment SCU also processes the N-EVENT-REPORT primitives that are received from the SCP indicating 'successful' or 'non-successful' commitment status. The N-EVENT-REPORT information is used to mark a study as being successfully archived to DICOM SCP.



### 3.1.3 SOP Specific Conformance

#### 3.1.3.1 SOP Specific Conformance – Storage SCU

Attribute Name	Tag	DICOM Type	VXvue DX Type	Available values	Remark
<b>Patient Module</b>					
Patient ID	(0010,0020)	2	2		
Patient's Birth Date	(0010,0030)	2	2		
Patient's Birth Time	(0010,0032)	3	3		
Patient Sex	(0010,0040)	2	2	M,F,O	
Other Patient IDs	(0010,1000)	3	3		
Other Patient Names	(0010,1001)	3			
Ethnic Group	(0010,2160)	3			
Patient Comments	(0010,4000)	3	3		
Patient Species Description	(0010,2201)	1C	1C		
Patient Species Code Sequence	(0010,2202)	1C	1C		
Patient Breed Description	(0010,2292)	2C	2C		
Patient Breed Code Sequence	(0010,2293)	2C	2C		
Breed Registration Sequence	(0010,2294)	2C	2C		
Breed Registration Number	(0010,2295)	1	1		
Breed Registry Code Sequence	(0010,2296)	1	1		
Responsible Person	(0010,2297)	2C	2C		
Responsible Person Role	(0010,2298)	1C	1C		
Responsible Organization	(0010,2299)	2C	2C		



General Study					
Study Date	(0008,0020)	2	2		
Study Time	(0008,0030)	2	2		
Accession Number	(0008,0050)	2	2		
Referring Physician Name	(0008,0090)	2	2	Last Name^First Name^^	
Study Description	(0008,1030)	3	2		
Procedure Code Sequence	(0008,1032)	3			
Name of Physician(s) reading study	(0008,1060)				
Referenced Study sequence	(0008,1110)				
Study Instance UID	(0020,000D)	1	1		
Study ID	(0020,0010)	2	2		
Physician(s) of Record	(0008,1048)				
Patient Study					
Admitting Diagnosis Description	(0008,1080)	3			
Patient's Age	(0010,1010)	3	3		
Patient's Size	(0010,1020)	3	3		
Patient's Weight	(0010,1030)	3	3		
Occupation	(0010,2180)	3			
Additional Patient History	(0010,21B0)	3			
Patient's Sex Neutered	(0010,2203)	2C	2C	ALTERED, UNALTERED	



General Series					
Series Date	(0008,0021)	3	3		
Series Time	(0008,0031)	3	3		
Modality	(0008,0060)	1	1	DX or CR	
Protocol Name	(0018,1030)	3			
Series Description	(0008,103E)	3	3		
Performing Physician's Name	(0018,1050)	3	3	Last Name^First Name^^	
Operator Name	(0008,1070)	3	3		
Body Part Examined	(0018,0015)	2	1		
Patient Position	(0018,5100)	2C	2C		
Series Instance UID	(0020,000E)	1	1		
Series Number	(0020,0011)	2	2		
Laterality	(0020,0060)	2C	2C	L or R	
Smallest Pixel Value in Series	(0028,0108)	3			
Largest Pixel Value in Series	(0028,0109)	3			
Performed Procedure Step Start Date	(0040,0244)	3			
Performed Procedure Step Start Time	(0040,0245)	3			
Performed Protocol Step ID	(0040,0253)	3			
Performed Procedure Step Description	(0040,0254)	3			
Performed Protocol code sequence	(0040,0260)	3			
Request Attributes sequence	(0040,0275)	3			
DX Series					
Modality	(0008,0060)	1	1	DX	
Referenced Performed Procedure Step sequence	(0008,1111)	1C			
Presentation Intent Type	(0008,0068)	1	1	FOR PRESENTATION	



General Equipment					
Manufacturer	(0008,0070)	2	2	Viewworks Co.,Ltd System Manufacturer	
Institution Name	(0008,0080)	3	3		
Institution Address	(0008,0081)	3	3		
Station Name	(0008,1010)	3	2		
Institutional Department Name	(0008,1040)	3	3		
Manufacture Model Name	(0008,1090)	3	1	VIVIX	
Device Serial Number	(0018,1000)	3	3		
Software Versions	(0018,1020)	3	3	1	
General Image					
Instance Number	(0020,0013)	2	1		
Patient Orientation	(0020,0020)	2C			
Content Date	(0008,0023)	2C	2C		
Content Time	(0008,0033)	2C	2C		
Image Type	(0008,0008)	3	1	DERIVED PRIMARY	
Acquisition Date	(0008,0022)	3	3		
Acquisition Time	(0008,0032)	3	3		
Derivation Description	(0008,2111)	3			
Image Comments	(0020,4000)	3	3		
Burned In Annotation	(0028,0301)			NO/YES	
Lossy Image Compression	(0028,2110)	3	3	00	



<b>Image Pixel</b>					
Samples per Pixel	(0028,0002)	1	1	1	
Photometric Interpretation	(0028,0004)	1	1	MONOCHROME 2	
Rows	(0028,0010)	1	1	~4096	
Columns	(0028,0011)	1	1	~4096	
Bits Allocated	(0028,0100)	1		16	
Bits Stored	(0028,0101)	1		12 or 14	
High Bit	(0028,0102)	1		11 or 13	
Pixel Representation	(0028,0103)	1		000H	
Pixel Data	(7FE0,0010)	1	1		
Pixel Aspect Ratio	(0028,0034)	1C	1	1/1	
Smallest Image Pixel Value	(0028,0106)	1	1	0	
Largest Image Pixel Value	(0028,0107)	1	1	4095 or 16383	
<b>DX Anatomy Imaged</b>					
Image Laterality	(0020,0062)	1	1		
Anatomic Region Sequence	(0028,2218)	2	2		



DX Image					
Image Type	(0008,0008)	1	1	DERIVED PRIMARY	
Patient Orientation	(0020,0020)	1	1		
Samples per Pixel	(0028,0002)	1	1	1	
Photometric Interpretation	(0028,0004)	1	1	MONOCHROME 2	
Bits Allocated	(0028,0100)	1		16	
Bits Stored	(0028,0101)	1		12 or 14	
High Bit	(0028,0102)	1		11 or 13	
Pixel Representation	(0028,0103)	1		0	
Burned In Annotation	(0028,0301)			NO/YES	
Pixel Intensity Relationship	(0028,1040)	1	1	LIN or LOG	
Pixel Intensity Relationship Sign	(0028,1041)	1	1	1 or -1	
Rescale Intercept	(0028,1052)	1	1	0	
Rescale Slope	(0028,1053)	1	1	1	
Rescale Type	(0028,1054)	1	1	US	
Lossy Image Compression	(0028,2110)	1	1	00	
Presentation LUT Shape	(2050,0020)	1	1	IDENTITY or INVERSE	
Pixel Spacing	(0028,0030)	3	3		
Window Center	(0028,1050)	1C	1		
Window Level	(0028,1051)	1C	1		



DX Detector					
Detector Type	(0018,7004)	2		DIRECT / SCINTILATOR	
Detector Configuration	(0018,7005)	3			
Detector Mode	(0018,7008)	3			
Detector ID	(0018,700A)	3			
Date of Last Detector Calibration	(0018,700C)	3			
Time of Last Detector Calibration	(0018,700E)	3			
Detector Binning	(0018,701A)	3		1\1	
Detector Manufacturer Name	(0018,702A)	3		Vieworks Co.,Ltd	
Detector Manufacturer's Model Name	(0018,702B)	3		RXDN-6000 RXDN-6500 RXDN-7000 RXDN-8000 VIVIX-S 1717SA VIVIX-S 1717SB VIVIX-S 1417SA VIVIX-S 1417SB VIVIX-S 1417WA VIVIX-S 1417WB	
Detector Temperature	(0018,7001)	3			
Imager Pixel Spacing	(0018,1164)	1	1	0.140\0.140	
DX Positioning					
Patient Position	(0018,5100)	1	1		
View Position	(0018,5101)	2	2		
View Code Sequence	(0054,0220)	3			
Patient Orientation Code Sequence	(0054,0410)	3			





<b>X-ray Acquisition Dose</b>					
KVP	(0018,0060)	3			
X-Ray Tube Current	(0018,1151)	3			
X-Ray Tube Current in $\mu$ A	(0018,8151)	3			
Exposure Time	(0018,1150)	3			
Exposure Time in $\mu$ S	(0018,8150)	4			
Exposure	(0018,1152)	3			
Exposure in $\mu$ As	(0018,1153)	3			
Exposure Index	(0018,1411)	3			
Target Exposure Index	(0018,1412)	3			
Deviation Index	(0018,1413)	3			
<b>SOP Common</b>					
SOP Class UID	(0008,0016)	1	1		
SOP Instance UID	(0008,0018)	1	1		
Specific Character Set	(0008,0005)	1C	1C		

**3.1.3.2 SOP Specific Conformance – Modality Worklist SCU**

Attribute Name	Tag	Expected Matching Key Type	Expected Returned Key Type	Associated DICOM DX Element Comments
Scheduled Procedure Step Sequence	(0040,0100)	R	1	N/A
Scheduled Station AE Title	(0040,0001)	R	1	N/A
Scheduled Procedure Step Start Date	(0040,0002)	R	1	Study Date (0008,0020)
Scheduled Procedure Step Start Time	(0040,0003)	O	1	Study Time(0008,0030)
Modality	(0008,0060)	R	1	Modality (0008,0060)
Requested Contrast Agent	(0032,1070)	O	3	
Scheduled Performing Physician's Name	(0040,0006)	O	3	Performing Physician's Name (0008,1050)
Scheduled Procedure Step Description	(0040,0007)	O	1C	Study Description (0008,1030)
Scheduled Station Name	(0040,0010)	O	3	
Scheduled Protocol Code Sequence	(0040,0008)	O	3	
Scheduled Procedure Step ID	(0040,0009)	O	1	N/A
Requested Procedure ID	(0040,1001)	O	1	
Requested Procedure Description	(0032,1060)	O	1C	N/A
Requested Procedure Code Sequence	(0032,1064)	O	3	
Study Instance UID	(0020,000D)	O	1C	Study Instance UID (0020,000D)
Study Date	(0008,0020)	O	1	
Study Time	(0008,0030)	O	3	



Attribute Name	Tag	Expected Matching Key Type	Expected Returned Key Type	Associated DICOM DX Element Comments
Requested Procedure Priority	(0040,1003)	O	3	
Patient Transport Arrangements	(0040,1004)	O	3	
Requested Procedure Location	(0040,1005)	O	3	
Referring Physicians Name	(0008,0090)	O	3	
Accession Number	(0008,0050)	R	3	Accession Number (0008,0050) Configurable
Requesting Service	(0032,1033)	O	3	
Visit Status ID	(0038,0008)	O	3	
Patient's Institution Residence	(0038,0400)	O	3	
Current Patient Location	(0038,0300)	O	3	
Admitting Diagnosis Description	(0008,1080)	O	3	
Patient's Name	(0010,0010)	R	1	Patient's Name (0010,0010) Configurable
Patient ID	(0010,0020)	R	1	Patient ID (0010,0020) Configurable
Other Patient Ids	(0010,1000)	O	3	
Other Patient Names	(0010,1001)	O	3	
Patients Birth Date	(0010,0030)	O	3	Patients Birth Date (0010,0030) Configurable
Patient Birth Time	(0010,0032)	O	3	
Patient's Sex	(0010,0040)	O	3	Patient's Sex (0010,0040) Configurable
Patient's Age	(0010,1010)	O	3	Patient's Age (0010,1010) Configurable
Patient's Size	(0010,1020)	O	3	
Patient's Weight	(0010,1030)	O	3	



Attribute Name	Tag	Expected Matching Key Type	Expected Returned Key Type	Associated DICOM DX Element Comments
Ethnic Group	(0010,2160)	O	3	
Occupation	(0010,2180)	O	3	
Patient's Address	(0010,1040)	O	3	
Patient's Telephone Numbers	(0010,2154)	O	3	
Patient's Comments	(0010,4000)	O	3	Patient's Comments (0010,4000) Configurable
Confidentiality constraint on patient data	(0040,3001)	O	3	
Additional Patient's History	(0010,21B0)	O	3	
Patient State	(0038,0500)	O	3	
Pregnancy Status	(0010,21C0)	O	3	
Medical Alerts	(0010,2000)	O	3	
Allergies	(0010,2110)	O	3	
Special Needs	(0038,0050)	O	3	

### 3.1.3.3 SOP Specific Conformance – Print SCU

The Basic Grayscale Print Management Meta SOP Class is defined by the following set of supported SOP classes.

SOP Class Name	SOP Class UID
Basic Film Session SOP Class	1.2.840.10008.3.1.2.3.5
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



## Basic Film Session SOP Class

The VXvue 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)	MED
Medium Type	(2000,0030)	BLUE FILM
Film Destination	(2000,0040)	MAGAZINE
Film Session Label	(2000,0050)	
Memory Allocation	(2000,0060)	

## Basic Film Box SOP Class

VXvue supports the following DIMSE 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: Request to delete the film box instance.

Attribute	DICOM Tag	Default Value
Image Display Format	(2010,0010)	STANDARD\C,R - configurable
Referenced Film Session Sequence	(2010,0500)	
Film Orientation	(2010,0040)	PORTRAIT
Film Size Id	(2010,0050)	14INX17IN
Magnification Type	(2010,0060)	BILINEAR
Min Density	(2010,0120)	40
Max Density	(2010,0130)	400
Smoothing Type	(2010,0080)	NORMAL
Border Density	(2010,0100)	BLACK
Illumination	(2010,015E)	
Reflective Ambient Light	(2010,0160)	
Trim	(2010,0140)	NO



## Basic Grayscale Image Box SOP Class

VXvue supports the following DIMSE service elements for basic grayscale image box SOP class

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

Attribute	DICOM Tag	Default Value
Image Position	(2020,0010)	image-dependent
Preformatted Grayscale Image Sequence	(2020,0110)	
Samples per Pixel	(0028,0002)	1
Photometric Inter-presentation	(0028,0004)	MONOCHROME2
Rows	(0028,0010)	image-dependent
Columns	(0028,0011)	image-dependent
Pixel Aspect Ratio	(0028,0034)	11
Bits Allocated	(0028,0100)	16
Bits Stored	(0028,0101)	14
High Bit	(0028,0102)	13
Pixel Representation	(0028,0103)	0
Pixel Data	(7FE0,0010)	
Polarity	(2020,0020)	NORMAL
Magnification Type	(2010,0060)	REPLICATE
Smoothing Type	(2010,0080)	NORMAL
Requested Image Size	(2020,0030)	

## Printer SOP Class

VXvue issues the request to retrieve the following attributes from DICOM-compliant printer.

- C-GET: Request to retrieve printer information.

Attribute	DICOM Tag
Printer Status	(2110,0010)
Printer Status Info	(2110,0020)
Printer Name	(2110,0030)
Manufacturer	(0008,0070)
Manufacturer Model Name	(0008,1090)
Device Serial Number	(0018,1000)
Software Versions	(0018,1020)
Date of Last Calibration	(0018,1200)
Time of Last Calibration	(0018,1201)



### 3.1.3.4 SOP Specific Conformance – Modality Performed Procedure Step SCU in N-CREATE

Attribute Name	Tag	DICOM Type	VXvue DX Type	Available values	Remark
<b>Performed Procedure Step Relationship</b>					
Patient's Name	(0010,0010)	2	2	Last Name^First Name^^	
Patient ID	(0010,0020)	2	2		
Patient's Birth Date	(0010,0030)	2	2		
Patient Sex	(0010,0040)	2	2	M,F,O	
Scheduled Step Attributes Sequence					
Accession Number	(0008,0050)	2	2		
Referenced Study Sequence	(0008,1110)	2	2		
Referenced SOP Class UID	(0008,1150)	1	1		
Referenced SOP Instance UID	(0008,1155)	1	1		
Study Instance UID	(0020,000D)	1	1		
Requested Procedure Description	(0032,1060)	2	2		
Scheduled Procedure Step Description	(0040,0007)	2	2		
Scheduled Procedure Step ID	(0040,0009)	2	2		
Requested Procedure ID	(0040,1001)	2	2		



Performed Procedure Step Information					
Procedure Code Sequence	(0008,1032)	2	2		
Code Value	(0008,0100)	1	1		
Coding Scheme Designator	(0008,0102)	1	1		
Coding Scheme Version	(0008,0103)	3	3		
Code Meaning	(0008,0104)	3	3		
Performed Station AE Title	(0040,0241)	1	1		
Performed Station Name	(0040,0242)	2	2		
Performed Location	(0040,0243)	2	2		
Performed Procedure Step Start Date	(0040,0244)	1	1		
Performed Procedure Step Start Time	(0040,0245)	1	1		
Performed Procedure Step End Date	(0040,0250)	2	2		
Performed Procedure Step End Time	(0040,0251)	2	2		
Performed Procedure Step Status	(0040,0252)	1	1	IN PROGRESS	
Performed Procedure Step ID	(0040,0253)	1	1		
Performed Procedure Step Description	(0040,0254)	2	2		
Performed Procedure Type Description	(0040,0255)	2	2		
Image Acquisition Result					
Modality	(0008,0060)	1	1	DX	
Study ID	(0020,0010)	2	2		
Performed Protocol Code Sequence	(0040,0260)	2	2		
Code Value	(0008,0100)	1	1		
Coding Scheme Designator	(0008,0102)	1	1		
Coding Scheme Version	(0008,0103)	3	3		
Code Meaning	(0008,0104)	3	3		
Performed Series Sequence	(0040,0340)	2	2		Always Empty



**3.1.3.5 SOP Specific Conformance – Modality Performed Procedure Step SCU in N-SET**

Attribute Name	Tag	DICOM Type	VXvue DX Type	Available values	Remark
<b>Performed Procedure Step Information</b>					
Procedure Code Sequence	(0008,1032)	2	2		
Code Value	(0008,0100)	1	1		
Coding Scheme Designator	(0008,0102)	1	1		
Coding Scheme Version	(0008,0103)	3	3		
Code Meaning	(0008,0104)	3	3		
Performed Procedure Step End Date	(0040,0250)	2	2		
Performed Procedure Step End Time	(0040,0251)	2	2		
Performed Procedure Step Status	(0040,0252)	1	1	DISCONTINUED / COMPLETED	
Performed Procedure Step Description	(0040,0254)	2	2		
Performed Procedure Type Description	(0040,0255)	2	2		



Image Acquisition Result					
Performed Protocol Code Sequence	(0040,0260)	2	2		
Code Value	(0008,0100)	1	1		
Coding Scheme Designator	(0008,0102)	1	1		
Coding Scheme Version	(0008,0103)	3	3		
Code Meaning	(0008,0104)	3	3		
Performed Series Sequence	(0040,0340)	2	2		Always Empty
Performing Physician's Name	(0008,1050)	2	2		
Protocol Name	(0018,1030)	1	1	If Performed Procedure Step Status(0040,0252) is DISCONTINUED, use Unknown	
Operators Name	(0008,1070)	2	2		
Series Instance UID	(0020,000E)	1	1		
Series Description	(0008,103E)	2	2		
Retrieve AE Title	(0008,0054)	2	2		
Referenced Image Sequence	(0008,1140)	2	2		
Referenced Non-image Composite SOP Instance Sequence	(0040,0220)	2	2		Always Empty



### 3.1.3.6 SOP Specific Conformance – Storage Commitment SCU

Attribute Name	Tag	DICOM Type	VXvue DX Type	Available values	Remark
<b>Storage Commitment</b>					
Transaction UID	(0008,1195)	1	1		
Referenced SOP Sequence	(0008,1199)	1	1		
Referenced SOP Class	(0008,1150)	1	1		
Referenced SOP Instance UID	(0008,1155)	1	1		

### 3.1.4 Association Acceptance Policy

Not applicable because the VXvue (SCU) cannot accept an Association.



## **4. Communication Profiles**

### **4.1 Supported Communication Stacks**

DICOM Upper Layer (PS 3.8) is supported using TCP/IP.

### **4.2 TCP/IP Stack**

The VXvue (SCU) uses TCP/IP for the protocol stacks.

### **4.3 Physical Media Support**

The VXvue supports 10BaseT and 100BaseT.



## 5. Extensions/Specializations/Privatizations

### 5.1 Standard Extended/Specialized/Private SOPs

Not supported

### 5.2 Private Transfer Syntaxes

Not supported

### 5.3 Configuration

See VXvue Configuration Manual for configuration.

### 5.4 AE Title/Presentation Address Mapping

The Local AE Title is configurable in the Preference setting menu.

### 5.5 Configuration Parameters

The following fields are configurable for this Store SCP.

- Local AE Title
- Local IP Address
- Local TCP Port Number

The following fields are configurable for this Store SCU and Query and Retrieve SCU.

- Remote AE Title
- Remote IP Address
- Remote TCP Port Number

The following fields are configurable for this Print SCU.

- Remote AE Title
- Remote IP Address
- Remote TCP Port Number
- Support for the optional Trim element in the Basic Film Box SOP Class (default: off).



# Vieworks



## **Vieworks Co., Ltd.**

#107-108, 601-610, Suntechcity 2,

52, Sagimakgol-ro (307-2, Sangdaewon-dong),

Jungwon-gu, Seongnam-si, Gyeonggi-do, 462-736, South Korea

Telephone: +82-70-7011-6161    FAX: +82-31-737-4954

Website: <http://www.vieworks.com>



## **European representative: DONGBANG ACUPRIME**

1 Forrest Units, Hennock Road East, Marsh Barton, Exeter EX2 8RU, UK

Telephone: +44(0)-1392-829500

Site: <http://www.acuprime.com>