

DICOM Conformance Statement

Application Annex:

ViewForum on Xcelera R3.2L1 SP2



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1. Introduction

This DICOM Conformance Statement annex is applicable to the ViewForum on Xcelera R3.2L1 SP2 hosting platform. In general ViewForum is the user environment for viewing and analyzing various clinical images.

1.1. Revision History

The revision history below provides dates and differences among individual document versions.

Table 1: Revision History

Document Version	Date of Issue	Status	Description
00	02-January-2012	Final version	Initial version

1.2. Terminology

DICOM	Digital Imaging and Communications in Medicine
IOD	Information Object Definition
UID	Unique Identifier
VR	Value Representation

2. Data Specifications

2.1. Supported IOD's

This section specifies each IOD accepted and / or created by ViewForum.

ACCEPTED	The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import in ViewForum for viewing and analysis.
CREATED	The ViewForum supports generation of derived data by using the applicable IOD and is able to store this data in the repository of the hosting platform.

Table 2: Supported IOD's

IOD		Support	
Name	UID	ACCEPTED	CREATED
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1	Yes	Yes
Digital X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Yes	No
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	Yes
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1	Yes	Yes
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Yes	Yes
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2	Yes	Yes
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Yes	Yes
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1	Yes	Yes
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1	Yes	Yes
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1	Yes	No
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9	Yes	No
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12	Yes	No
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1	Yes	No
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10	Yes	No
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13	Yes	No
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14	Yes	No
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1	Yes	No
Philips Private Specialized PMS X-Ray Image Store	1.3.46.670589.2.3.1.1	Yes	No
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1	Yes	No

2.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by ViewForum to which a dataset should adhere before it can be imported into the application. This can be criteria on the highest level (e.g. data from a certain manufacturer or system model) or certain DICOM attributes mandatory to be present into the dataset holding a specific value. In case one or more Philips private attributes are required, then a list of supported Philips system models will be mentioned.

Table 3: Accepted system models

Manufacturer	Modality	System Model Name(s)
Not applicable	Not applicable	Not applicable

Table 4: Accepted transfer syntaxes per IOD

IOD	
Name	UID
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1
Digital X-Ray Image Storage – For Presentation	1.2.840.10008.5.1.4.1.1.1.1
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1
Philips Private Specialized PMS X-Ray Image Store	1.3.46.670589.2.3.1.1
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1

Table 5: Accepted attribute values

Attribute Name	Attribute Number	Values / Comments
Not applicable	Not applicable	Not applicable

2.1.2. Contents of Created IOD's

This section specifies in detail the attribute contents of created data objects. Attributes are grouped together by its corresponding module as specified by DICOM standard. Philips private attributes are excluded for specification.

Abbreviations used in the Module table for the column "Presence of Value" are:

ALWAYS	The attribute is always present with a value
EMPTY	The attribute is always present without any value (attribute sent zero length)
VNAP	The attribute is always present and its Value is Not Always Present (attribute sent zero length if no value is present)
ANAP	The attribute is present under specified condition – if present then it will always have a value
ANAPCV	The attribute is present under specified condition – if present then its Value is Not Always Present (attribute sent zero length if condition applies and no value is present)
ANAPEV	The attribute is present under specified condition – if present then it will not have any value

The abbreviations used in the Module table for the column "Source" are:

AUTO	The attribute value is generated automatically
CONFIG	The attribute value source is a configurable parameter
COPY	The attribute value source is another SOP instance
FIXED	The attribute value is hard-coded in the application
IMPLICIT	The attribute value source is a user-implicit setting
MPPS	The attribute value is the same as that use for Modality Performed Procedure Step
MWL	The attribute value source is a Modality Worklist
USER	The attribute value source is explicit user input

2.1.2.1. Computed Radiography Image Storage SOP Class

Table 6: IOD of Created Computed Radiography Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Series	CR Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	CR Image Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 7: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	M, F, O	VNAP	COPY	-

Table 8: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	-
Study Time	0008,0030	TM		ALWAYS	COPY	-
Accession Number	0008,0050	SH		ALWAYS	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		ANAPCV	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		ALWAYS	COPY	-

Table 9: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 10: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO		VNAP	AUTO	-
Protocol Name	0018,1030	LO	Original	ALWAYS	CONFIG	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		VNAP	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	AUTO	-
Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	AUTO	-
Performed Procedure Step ID	0040,0253	SH		ALWAYS	AUTO	-
Performed Procedure Step Description	0040,0254	LO		ALWAYS	COPY	Copied from Study Description

Table 11: CR Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Body Part Examined	0018,0015	CS		VNAP	MPPS, USER	
View Position	0018,5101	CS		VNAP	AUTO	

Table 12: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	COPY	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 13: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: ORIGINAL, Value 2: SECONDARY	ALWAYS	AUTO	-
Content Date	0008,0023	DA		ALWAYS	COPY	-
Content Time	0008,0033	TM		ALWAYS	COPY	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-
Patient Orientation	0020,0020	CS		ALWAYS	AUTO, CONFIG	

Table 14: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US	1	ALWAYS	AUTO	-
Rows	0028,0010	US		ALWAYS	COPY	-
Columns	0028,0011	US		ALWAYS	COPY	-
Bits Allocated	0028,0100	US		ALWAYS	COPY	-
Bits Stored	0028,0101	US		ALWAYS	COPY	-

High Bit	0028,0102	US		ALWAYS	COPY	-
Pixel Representation	0028,0103	US		ALWAYS	COPY	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 15: CR Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Detector	0018,1110	DS		ANAPCV	COPY	-
Photometric Interpretation	0028,0004	CS	MONOCHROME1, MONOCHROME2	ALWAYS	COPY	-
Pixel Spacing	0028,0030	DS		ALWAYS	COPY	-

Table 16: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.1	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.2. CT Image Storage SOP Class

Table 17: IOD of Created CT Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Frame of Reference	Frame of Reference Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Plane Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	CT Image Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 18: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	M, F, O	VNAP	COPY	-

Table 19: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		VNAP	COPY	-
Study Time	0008,0030	TM		VNAP	COPY	-
Accession Number	0008,0050	SH		VNAP	COPY	-

Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		VNAP	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		ALWAYS	COPY	-

Table 20: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 21: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAPCV	AUTO	-
Series Time	0008,0031	TM		ANAPCV	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO	original	ALWAYS	COPY	-
Protocol Name	0018,1030	LO		ANAPCV	COPY	-
Patient Position	0018,5100	CS		ALWAYS	COPY	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	AUTO	-
Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	AUTO	-
Performed Procedure Step ID	0040,0253	SH		VNAP	AUTO	-
Performed Procedure Step Description	0040,0254	LO		VNAP	COPY	-

Table 22: Frame of Reference Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame of Reference UID	0020,0052	UI		ALWAYS	AUTO	-
Position Reference Indicator	0020,1040	LO		VNAP	AUTO	-

Table 23: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 24: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Date	0008,0022	DA		ALWAYS	COPY	-
Content Date	0008,0023	DA		ALWAYS	COPY	-
Acquisition Time	0008,0032	TM		ALWAYS	COPY	-
Content Time	0008,0033	TM		ALWAYS	COPY	-

Instance Number	0020,0013	IS		ALWAYS	AUTO	-
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Table 25: Image Plane Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Slice Thickness	0018,0050	DS		VNAP	AUTO	-
Image Position (Patient)	0020,0032	DS		ALWAYS	AUTO	-
Image Orientation (Patient)	0020,0037	DS		ALWAYS	AUTO	-
Pixel Spacing	0028,0030	DS		ALWAYS	AUTO	-

Table 26: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rows	0028,0010	US		ALWAYS	AUTO	-
Columns	0028,0011	US		ALWAYS	AUTO	-
Pixel Representation	0028,0103	US	0x0000	ALWAYS	AUTO	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 27: CT Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: ORIGINAL, Value 2: PRIMARY, Value 3: LOCALIZER	ALWAYS	AUTO	-
KVP	0018,0060	DS		VNAP	AUTO	-
Acquisition Number	0020,0012	IS		VNAP	AUTO	-
Samples per Pixel	0028,0002	US	1	ALWAYS	AUTO	-
Photometric Interpretation	0028,0004	CS	MONOCHROME1, MONOCHROME2	ALWAYS	AUTO	-
Bits Allocated	0028,0100	US	16	ALWAYS	AUTO	-
Bits Stored	0028,0101	US	16	ALWAYS	AUTO	-
High Bit	0028,0102	US	15	ALWAYS	AUTO	-
Rescale Intercept	0028,1052	DS		ALWAYS		-
Rescale Slope	0028,1053	DS		ALWAYS		-

Table 28: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.2, 1.2.840.10008.5.1.4.1.1.2	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.3. Grayscale Softcopy Presentation State Storage SOP Class

Table 29: IOD of Created Grayscale Softcopy Presentation State Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Series	Presentation Series Module	ALWAYS

Equipment	General Equipment Module	ALWAYS
Presentation State	Presentation State Identification Module	ALWAYS
Presentation State	Presentation State Relationship Module	ALWAYS
Presentation State	Presentation State Shutter Module	CONDITIONAL
Presentation State	Displayed Area Module	CONDITIONAL
Presentation State	Graphic Annotation Module	CONDITIONAL
Presentation State	Graphic Layer Module	CONDITIONAL
Presentation State	Modality LUT Module	ALWAYS
Presentation State	Softcopy VOI LUT Module	ALWAYS
Presentation State	Softcopy Presentation LUT Module	ALWAYS
Presentation State	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 30: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	F, M, O	VNAP	COPY	-

Table 31: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	-
Study Time	0008,0030	TM		ALWAYS	COPY	-
Accession Number	0008,0050	SH		VNAP	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		VNAP	COPY	-
Procedure Code Sequence	0008,1032	SQ		ANAPCV	AUTO	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		VNAP	COPY	-

Table 32: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Age	0010,1010	AS		ANAPCV	COPY	-
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 33: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Request Attributes Sequence	0040,0275	SQ		ANAPCV	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	COPY	-

Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	COPY	-
Performed Procedure Step ID	0040,0253	SH		ALWAYS	COPY	-
Performed Procedure Step Description	0040,0254	LO		VNAP	COPY	-

Table 34: Presentation Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS	PR	ALWAYS	AUTO	-

Table 35: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 36: Presentation State Identification Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Presentation Creation Date	0070,0082	DA		ALWAYS	AUTO	-
Presentation Creation Time	0070,0083	TM		ALWAYS	AUTO	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-
Content Label	0070,0080	CS	NONE	ALWAYS	AUTO	-
Content Description	0070,0081	LO		VNAP	AUTO	-
Content Creator's Name	0070,0084	PN		VNAP	AUTO	-

Table 37: Presentation State Relationship Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Referenced Series Sequence	0008,1115	SQ		ALWAYS	AUTO	-
>Referenced Image Sequence	0008,1140	SQ		ALWAYS	AUTO	-
>>Referenced SOP Class UID	0008,1150	UI		ALWAYS	AUTO	-
>>Referenced SOP Instance UID	0008,1155	UI		ALWAYS	AUTO	-
>Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-

Table 38: Presentation State Shutter Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Shutter Presentation Value	0018,1622	US	0	ANAP	AUTO	Required if display shutter module or bitmap display shutter module is present.

Table 39: Displayed Area Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Displayed Area Selection Sequence	0070,005A	SQ		ALWAYS	AUTO	-
>Displayed Area Top Left Hand Corner	0070,0052	SL		ALWAYS	AUTO	-

>Displayed Area Bottom Right Hand Corner	0070,0053	SL		ALWAYS	AUTO	-
>Presentation Size Mode	0070,0100	CS	SCALE TO FIT	ALWAYS	AUTO	-
>Presentation Pixel Spacing	0070,0101	DS		ANAP	AUTO	Required if Presentation Size Mode (0070,0100) is TRUE SIZE, in which case the values will correspond to the physical distance between the centers of each pixel on the display device. May be present if Presentation Size Mode (0070,0100) is SCALE TO FIT or MAGNIFY, in which case the values are used to compute the aspect ratio of the image pixels.
>Presentation Pixel Aspect Ratio	0070,0102	IS		ANAP	AUTO	Required if Presentation Pixel Spacing (0070,0101) is not present.

Table 40: Graphic Annotation Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Graphic Annotation Sequence	0070,0001	SQ		ANAP	AUTO	-
>Referenced Image Sequence	0008,1140	SQ		ANAP	AUTO	-
>>Referenced SOP Class UID	0008,1150	UI		ALWAYS	AUTO	-
>>Referenced SOP Instance UID	0008,1155	UI		ALWAYS	AUTO	-
>Graphic Layer	0070,0002	CS		ALWAYS	AUTO	-
>Text Object Sequence	0070,0008	SQ		ANAP	AUTO	-
>>Anchor Point Annotation Units	0070,0004	CS		ANAP	AUTO	-
>>Unformatted Text Value	0070,0006	ST		ALWAYS	AUTO	-
>>Anchor Point Visibility	0070,0015	CS		ANAP	AUTO	-
>Graphic Object Sequence	0070,0009	SQ		ANAP	AUTO	-
>>Graphic Data	0070,0022	FL		ALWAYS	AUTO	-

Table 41: Graphic Layer Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Graphic Layer Sequence	0070,0060	SQ		ANAP	AUTO	-
>Graphic Layer	0070,0002	CS		ALWAYS	AUTO	-
>Graphic Layer Order	0070,0062	IS		ALWAYS	AUTO	-
>Graphic Layer Description	0070,0068	LO		ANAPCV	AUTO	-

Table 42: Modality LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rescale Intercept	0028,1052	DS		ANAP	AUTO	-
Rescale Slope	0028,1053	DS		ANAP	AUTO	-
Rescale Type	0028,1054	LO		ANAP	AUTO	-

Table 43: Softcopy VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Softcopy VOI LUT Sequence	0028,3110	SQ		ALWAYS	AUTO	-

>Referenced Image Sequence	0008,1140	SQ		ANAP	AUTO	Required if the VOI LUT transformation in this Item does not apply to all the images and frames listed in the Presentation State Relationship Module.
>>Referenced Frame Number	0008,1160	IS		ALWAYS	AUTO	-
>>Referenced SOP Class UID	0008,1150	UI		ALWAYS	AUTO	-
>>Referenced SOP Instance UID	0008,1155	UI		ALWAYS	AUTO	-
>Window Center	0028,1050	DS		ANAP	AUTO	-
>Window Width	0028,1051	DS		ANAP	AUTO	-

Table 44: Softcopy Presentation LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Presentation LUT Shape	2050,0020	CS	IDENTITY	ANAP	AUTO	-

Table 45: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.11.1	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.4. Secondary Capture Image Storage SOP Class

Table 46: IOD of Created Secondary Capture Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Equipment	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 47: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	F, M, O	VNAP	COPY	-

Table 48: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		VNAP	COPY	-
Study Time	0008,0030	TM		VNAP	COPY	-

Accession Number	0008,0050	SH		VNAP	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		VNAP	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		VNAP	COPY	-

Table 49: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 50: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Series Description	0008,103E	LO	original, photo	ALWAYS	AUTO	-
Protocol Name	0018,1030	LO		ANAPCV	COPY	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ANAPCV	COPY	-
Performed Procedure Step Start Time	0040,0245	TM		ANAPCV	COPY	-
Performed Procedure Step ID	0040,0253	SH		ALWAYS	COPY	-
Performed Procedure Step Description	0040,0254	LO		VNAP	COPY	-

Table 51: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 52: SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS	OT	ALWAYS	COPY	-
Conversion Type	0008,0064	CS	WSD	ALWAYS	AUTO	-

Table 53: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: DERIVED, Value 2: SECONDARY	ALWAYS	AUTO	-
Acquisition Date	0008,0022	DA		ANAPCV	COPY	-
Content Date	0008,0023	DA		ANAPCV	COPY	-
Acquisition Time	0008,0032	TM		ANAPCV	AUTO	-

Content Time	0008,0033	TM		ANAPCV	COPY	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-
Patient Orientation	0020,0020	CS		VNAP	COPY	-

Table 54: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US	3	ALWAYS	AUTO	-
Photometric Interpretation	0028,0004	CS	RGB	ALWAYS	AUTO	-
Planar Configuration	0028,0006	US	0x0000	ALWAYS	AUTO	-
Rows	0028,0010	US		ALWAYS	AUTO	-
Columns	0028,0011	US		ALWAYS	AUTO	-
Bits Allocated	0028,0100	US	8	ALWAYS	AUTO	-
Bits Stored	0028,0101	US	8	ALWAYS	AUTO	-
High Bit	0028,0102	US	7	ALWAYS	AUTO	-
Pixel Representation	0028,0103	US	0x0000	ALWAYS	AUTO	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 55: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	COPY	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI		ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.5. X-Ray Angiographic Image Storage SOP Class

Table 56: IOD of Created X-Ray Angiographic Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	X-Ray Image Module	ALWAYS
Image	X-Ray Acquisition Module	ALWAYS
Image	XA Positioner Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 57: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	F, M, O	VNAP	COPY	-

Table 58: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	-
Study Time	0008,0030	TM		VNAP	COPY	-
Accession Number	0008,0050	SH		VNAP	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		ALWAYS	COPY	-

Table 59: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 60: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO	original	ALWAYS	AUTO	-
Protocol Name	0018,1030	LO		ALWAYS	AUTO	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	AUTO	-
Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	AUTO	-
Performed Procedure Step ID	0040,0253	SH		ALWAYS	AUTO	-
Performed Procedure Step Description	0040,0254	LO		VNAP	AUTO	-

Table 61: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 62: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Date	0008,0022	DA		ALWAYS	COPY	-
Content Date	0008,0023	DA		ALWAYS	COPY	-
Acquisition Time	0008,0032	TM		ALWAYS	AUTO	-
Content Time	0008,0033	TM		ALWAYS	COPY	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-

Patient Orientation	0020,0020	CS		ALWAYS	AUTO, CONFIG	
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Table 63: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rows	0028,0010	US		ALWAYS	AUTO	-
Columns	0028,0011	US		ALWAYS	AUTO	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 64: X-Ray Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: DERIVED, SINGLE A, STORE MONITOR, Value 2: SECONDARY, Value 3: SINGLE PLANE	ALWAYS	AUTO	-
Samples per Pixel	0028,0002	US		ALWAYS	AUTO	-
Photometric Interpretation	0028,0004	CS	MONOCHROME1, MONOCHROME2	ALWAYS	AUTO	-
Bits Allocated	0028,0100	US	8	ALWAYS	AUTO	-
Bits Stored	0028,0101	US	8	ALWAYS	AUTO	-
High Bit	0028,0102	US	7	ALWAYS	AUTO	-
Pixel Representation	0028,0103	US		ALWAYS	AUTO	-
Pixel Intensity Relationship	0028,1040	CS	DISP	ALWAYS	AUTO	-

Table 65: X-Ray Acquisition Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
KVP	0018,0060	DS		VNAP	AUTO	-
Exposure Time	0018,1150	IS		ANAPCV	AUTO	-
X-ray Tube Current	0018,1151	IS		ANAPCV	AUTO	-
Exposure	0018,1152	IS		ANAPCV	AUTO	-
Radiation Setting	0018,1155	CS	GR	ALWAYS	AUTO	-

Table 66: XA Positioner Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Positioner Primary Angle	0018,1510	DS		EMPTY	AUTO	
Positioner Secondary Angle	0018,1511	DS		EMPTY	AUTO	

Table 67: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.12.1	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.6. X-Ray Radiofluoroscopic Image Storage SOP Class

Table 68: IOD of Created X-Ray Radiofluoroscopic Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	X-Ray Image Module	ALWAYS
Image	X-Ray Acquisition Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 69: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	F, M, O	VNAP	COPY	-

Table 70: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	-
Study Time	0008,0030	TM		ALWAYS	COPY	-
Accession Number	0008,0050	SH		VNAP	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		VNAP	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	COPY	-
Study ID	0020,0010	SH		VNAP	COPY	-

Table 71: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 72: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO	original	ALWAYS	AUTO	-
Protocol Name	0018,1030	LO		ALWAYS	AUTO	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		VNAP	AUTO	-

Performed Procedure Step Start Date	0040,0244	DA		ANAPEV	AUTO	-
Performed Procedure Step Start Time	0040,0245	TM		ANAPCV	AUTO	-
Performed Procedure Step ID	0040,0253	SH		ANAPCV	COPY	-
Performed Procedure Step Description	0040,0254	LO		VNAP	AUTO	-

Table 73: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	VNAP	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO	ViewForum	ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 74: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Date	0008,0022	DA		ALWAYS	COPY	-
Content Date	0008,0023	DA		ALWAYS	COPY	-
Acquisition Time	0008,0032	TM		ALWAYS	AUTO	-
Content Time	0008,0033	TM		ALWAYS	AUTO	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-
Patient Orientation	0020,0020	CS		ALWAYS	AUTO, CONFIG	

Table 75: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rows	0028,0010	US		ALWAYS	AUTO	-
Columns	0028,0011	US		ALWAYS	AUTO	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 76: X-Ray Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: ORIGINAL, Value 2: PRIMARY, Value 3: SINGLE PLANE	ALWAYS	AUTO	-
Samples per Pixel	0028,0002	US	1	ALWAYS	AUTO	-
Photometric Interpretation	0028,0004	CS	MONOCHROME2	ALWAYS	AUTO	-
Bits Allocated	0028,0100	US	16	ALWAYS	AUTO	-
Bits Stored	0028,0101	US	12	ALWAYS	AUTO	-
High Bit	0028,0102	US	11	ALWAYS	AUTO	-
Pixel Representation	0028,0103	US	0	ALWAYS	AUTO	-
Pixel Intensity Relationship	0028,1040	CS	DISP	ALWAYS	AUTO	-

Table 77: X-Ray Acquisition Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
KVP	0018,0060	DS		VNAP	AUTO	-

Exposure Time	0018,1150	IS		ANAPCV	AUTO	-
X-ray Tube Current	0018,1151	IS		ANAPCV	AUTO	-
Exposure	0018,1152	IS		ANAPCV	AUTO	-
Radiation Setting	0018,1155	CS	GR	ALWAYS	AUTO	-

Table 78: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.12.2	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.2.7. MR Image Storage SOP Class

Table 79: IOD of Created MR Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Frame of Reference	Frame of Reference Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Plane Module	ALWAYS
Image	Image Pixel Module	ALWAYS
Image	MR Image Module	ALWAYS
Image	VOI LUT Module	ALWAYS
Image	SOP Common Module	ALWAYS
	Extended Dicom and Private attributes	ALWAYS

Table 80: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	-
Patient ID	0010,0020	LO		VNAP	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ALWAYS	AUTO	-
Patient's Sex	0010,0040	CS	F, M, O	VNAP	COPY	-

Table 81: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		VNAP	COPY	-
Study Time	0008,0030	TM		VNAP	COPY	-
Accession Number	0008,0050	SH		VNAP	COPY	-
Referring Physician's Name	0008,0090	PN		VNAP	COPY	-
Study Description	0008,1030	LO		ANAPCV	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		VNAP	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	AUTO	-
Study ID	0020,0010	SH		ALWAYS	AUTO	-

Table 82: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Weight	0010,1030	DS		VNAP	COPY	-

Table 83: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	AUTO	-
Series Time	0008,0031	TM		ALWAYS	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO	original	ALWAYS	AUTO	-
Protocol Name	0018,1030	LO		ALWAYS	AUTO	-
Patient Position	0018,5100	CS		VNAP	COPY	-
Series Instance UID	0020,000E	UI		ALWAYS	COPY	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	COPY	-
Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	COPY	-
Performed Procedure Step ID	0040,0253	SH		ALWAYS	COPY	-
Performed Procedure Step Description	0040,0254	LO		ALWAYS	COPY	-

Table 84: Frame of Reference Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame of Reference UID	0020,0052	UI		ALWAYS	AUTO	-
Position Reference Indicator	0020,1040	LO		VNAP	AUTO	-

Table 85: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	ALWAYS	AUTO	-
Institution Name	0008,0080	LO		ALWAYS	AUTO	-
Manufacturer's Model Name	0008,1090	LO		ALWAYS	AUTO	-
Software Version(s)	0018,1020	LO	Value 1: ViewForum 6.1", "PMS5.2 MIMIT EVIIMDictionary	ALWAYS	AUTO	-

Table 86: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Content Date	0008,0023	DA		ALWAYS	COPY	-
Content Time	0008,0033	TM		ALWAYS	COPY	-
Instance Number	0020,0013	IS		ALWAYS	AUTO	-

Table 87: Image Plane Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Slice Thickness	0018,0050	DS		VNAP	AUTO	-
Image Position (Patient)	0020,0032	DS		ALWAYS	AUTO	-
Image Orientation (Patient)	0020,0037	DS		ALWAYS	AUTO	-

Pixel Spacing	0028,0030	DS		ALWAYS	AUTO	-
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Table 88: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rows	0028,0010	US		ALWAYS	AUTO	-
Columns	0028,0011	US		ALWAYS	AUTO	-
Bits Stored	0028,0101	US	8	ALWAYS	AUTO	-
High Bit	0028,0102	US	7	ALWAYS	AUTO	-
Pixel Representation	0028,0103	US	0x0000	ALWAYS	AUTO	-
Pixel Data	7FE0,0010	OW/OB		ALWAYS	AUTO	-

Table 89: MR Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	Value 1: ORIGINAL, Value 2: PRIMARY	ALWAYS	AUTO	-
Scanning Sequence	0018,0020	CS	GR	ALWAYS	AUTO	-
Sequence Variant	0018,0021	CS		ALWAYS	AUTO	-
Scan Options	0018,0022	CS		VNAP	AUTO	-
MR Acquisition Type	0018,0023	CS		VNAP	AUTO	-
Repetition Time	0018,0080	DS		ANAPCV	AUTO	-
Echo Time	0018,0081	DS		VNAP	AUTO	-
Echo Train Length	0018,0091	IS		VNAP	AUTO	-
Samples per Pixel	0028,0002	US		ALWAYS	AUTO	-
Photometric Interpretation	0028,0004	CS		ALWAYS	AUTO	-
Bits Allocated	0028,0100	US		ALWAYS	AUTO	-

Table 90: VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Window Center	0028,1050	DS		ANAP	AUTO	-
Window Width	0028,1051	DS		ANAP	AUTO	-

Table 91: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO	Required if expanded/replacement character set used
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.4	ALWAYS	AUTO	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-

2.1.3. Coerced/Modified fields

If not available at import then ViewForum will create the additional attributes as listed in the table below.

Table 92: Additional Attributes for Image Import.

Attribute	Tag	VR	General Value
Performed Procedure Step Start Date	0040,0244	DA	Copied from (0008, 0020) Study Date.
Performed Procedure Step Start Time	0040,0245	TM	Copied from (0008, 0030) Study Time.
Performed Procedure Step ID	0040,0253	SH	Copied from (0020, 0010) Study ID.

Attribute	Tag	VR	General Value
Performed Procedure Step Description	0040,0254	LO	Copied from (0008, 1030) Study Description.

2.2. Standard Extended/Specialized/Private SOPs

Table 93: List of created SOP Classes

SOP Class Name	SOP Class UID
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1

2.2.1. Standard Extended/Specialized/Private SOP Instance

2.2.1.1. Computed Radiography Image Storage SOP Class

Table 94: Extended DICOM and private attributes for Computed Radiography Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Radiation Setting	0018,1155	CS	GR	ALWAYS	AUTO	-
Image and Fluoroscopy Area Dose Product	0018,115E	DS		ALWAYS	COPY	-
Number of Frames	0028,0008	IS		ALWAYS	AUTO	-
Frame Increment Pointer	0028,0009	AT	Value 1: 1063	ALWAYS	AUTO	-
Pixel Intensity Relationship	0028,1040	CS	DISP	ALWAYS	AUTO	-
Performed Station Name	0040,0242	SH		EMPTY	AUTO	-
Performed Procedure Type Description	0040,0255	LO		EMPTY	AUTO	-

2.2.1.2. CT Image Storage SOP Class

Table 95: Extended DICOM and private attributes for CT Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Performed Station Name	0040,0242	SH		VNAP	COPY	-
Performed Procedure Type Description	0040,0255	LO		VNAP	COPY	-

2.2.1.3. Grayscale Softcopy Presentation State Storage SOP Class

Table 96: Extended DICOM and private attributes for Grayscale Softcopy Presentation State Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Detector	0018,1110	DS		ANAP	AUTO	-
Image and Fluoroscopy Area Dose Product	0018,115E	DS		ANAP	AUTO	-
Performed Station Name	0040,0242	SH		VNAP	COPY	-
Performed Procedure Type Description	0040,0255	LO		VNAP	COPY	-
Entrance Dose	0040,0302	US		ANAP	AUTO	-
Comments on Radiation Dose	0040,0310	ST		ANAP	AUTO	-

2.2.1.4. Secondary Capture Image Storage SOP Class

Table 97: Extended DICOM and private attributes for Secondary Capture Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Detector	0018,1110	DS		ALWAYS	AUTO	-
Performed Station Name	0040,0242	SH		VNAP	COPY	-
Performed Procedure Type Description	0040,0255	LO		VNAP	COPY	-

2.2.1.5. X-Ray Angiographic Image Storage SOP Class

Table 98: Extended DICOM and private attributes for X-Ray Angiographic Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Performed Station Name	0040,0242	SH		VNAP	AUTO	-
Performed Procedure Type Description	0040,0255	LO		VNAP	AUTO	-

2.2.1.6. X-Ray Radiofluoroscopic Image Storage SOP Class

Table 99: Extended DICOM and private attributes for X-Ray Radiofluoroscopic Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Performed Station Name	0040,0242	SH		ALWAYS	AUTO	-
Performed Procedure Type Description	0040,0255	LO		ALWAYS	AUTO	-

2.2.1.7. MR Image Storage SOP Class

Table 100: Extended DICOM and private attributes for MR Image Storage SOP Class Instances

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rescale Intercept	0028,1052	DS		ALWAYS	AUTO	-
Rescale Slope	0028,1053	DS		ALWAYS	AUTO	-
Rescale Type	0028,1054	LO		ALWAYS	AUTO	-
Performed Station Name	0040,0242	SH		VNAP	COPY	-

Performed Procedure Type Description	0040,0255	LO		VNAP	COPY	-
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