

DICOM Conformance Statement

Application Annex:

XperCT Dual R3.5

On Interventional Workspot R1.6





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2. Introduction

This DICOM Conformance Statement annex is applicable to the Xper CT Dual R3.5, later referred to as XperCT Dual Application. In general the XperCT reconstructs 3D volumes from rotational fluoroscopic acquisitions, and provides CT-like images that assist the physician with diagnosis, surgical planning and intervention.

2.1. Revision History

The revision history provides dates and differences of the different releases.

Table 1: Revision History

Document Version	Date of Issue	Description of change
00	02-Mar-2020	First release for XperCT Dual R3.5 on Interventional Workspot R1.6
01	04-Aug-2022	<ul style="list-style-type: none">Updated comment, source under XA Positioner Module for "Positioner Primary angle and Positioner Secondary angle" attributes.Updated Attribute Name, Source, Comment and Tag columns in Table no. 33 for created SOP Class as mentioned in Section 3.1.3.3 are updated for correctness, no change in the product behavior.

2.2. Audience

This Conformance Statement is intended for:

- (Potential) customers
- System integrators of medical equipment
- Marketing staff interested in system functionality
- Software designers implementing DICOM interfaces

It is assumed that the reader is familiar with the DICOM standard.

2.3. Remarks

The DICOM Conformance Statement is contained in chapter 4 through 8 and follows the contents and structuring requirements of DICOM PS 3.2.

This DICOM Conformance Statement by itself does not guarantee successful interoperability of Philips equipment with non-Philips equipment. The user (or user's agent) should be aware of the following issues:

- Interoperability**
Interoperability refers to the ability of application functions, distributed over two or more systems, to work successfully together. The integration of medical devices into an IT environment may require application functions that are not specified within the scope of DICOM. Consequently, using only the information provided by this Conformance Statement does not guarantee interoperability of Philips equipment with non-Philips equipment.
It is the user's responsibility to analyze thoroughly the application requirements and to specify a solution that integrates Philips equipment with non-Philips equipment.
- Validation**
Philips equipment has been carefully tested to ensure that the actual implementation of the DICOM interface corresponds with this Conformance Statement.
Where Philips equipment is linked to non-Philips equipment, the first step is to compare the relevant Conformance Statements. If the Conformance Statements indicate that successful information exchange should be possible, additional validation tests will be necessary to ensure the functionality, performance, accuracy and stability of image and image related data. It is the responsibility of the user (or user's agent) to specify the appropriate test suite and to carry out the additional validation tests.
- New versions of the DICOM Standard**
The DICOM Standard will evolve in future to meet the user's growing requirements and to incorporate new features and technologies. Philips is actively involved in this evolution and plans to adapt its equipment to future versions of the DICOM Standard. In order to do so, Philips reserves the right to make changes to its products or to discontinue its delivery. The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the DICOM Standard. If not, the incorporation of DICOM enhancements into Philips equipment may lead to loss of connectivity (in case of networking) and incompatibility (in case of media).

2.4. Definitions, Terms and Abbreviations

Table 2: Definitions, Terms and Abbreviations

Abbreviation/Term	Explanation
DICOM	Digital Imaging and Communications in Medicine
IOD	Information Object Definition
UID	Unique Identifier
VR	Value Representation
XA	X-Ray Angiography
CT	Computed Tomography

2.5. References

[DICOM] Digital Imaging and Communications in Medicine, Parts 1 - 22 (NEMA PS 3.1- PS 3.22),

National Electrical Manufacturers Association

1300 North 17th Street

Suite 900

Arlington, Virginia 22209

Internet: <https://www.dicomstandard.org/current>

Note that at any point in time the official standard consists of the most recent yearly edition of the base standard (currently 2022) plus all the supplements and correction items that have been approved as Final Text.

3. Annexes of application "XperCT Dual R3.5 application"

3.1. IOD Contents

This section specifies each IOD accepted and / or created by XperCT Dual R3.5 Application.

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

3.1.1. Created SOP Instance

This section specifies each IOD created by this application.

This section specifies each IOD created (including private IOD's). It should specify the attribute name, tag, VR, and value. The value should specify the range and source (e.g. user input, Modality Worklist, automatically generated, etc.). For content items in templates, the range and source of the concept name and concept values should be specified. Whether the value is always present or not shall be specified.

Abbreviations used in the IOD tables for the column "Presence of Module" are:

ALWAYS	The module is always present
CONDITIONAL	The module is used under specified condition

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

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

3.1.1.1. List of created SOP Classes

Table 3: List of created SOP Classes

IOD	Support	
	ACCEPTED	CREATED
X-Ray 3D Angiographic Image Storage SOP Class	No	Yes
CT Image Storage SOP Class	No	Yes
Raw Data Storage SOP Class	No	Yes
X-Ray Angiographic Image Storage SOP Class	Yes	Yes
Secondary Capture Image Storage SOP Class	No	Yes
Multiframe True Color Secondary Capture Image Storage SOP Class	No	Yes

3.1.2. Acceptance Criteria

This section specifies the acceptance criteria applied by XperCT Application 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 4: Accepted system models

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

Table 5: Accepted transfer syntaxes per IOD

IOD		Transfer Syntax	
Name	UID	Name	UID
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	Implicit VR Little Endian Explicit VR Big Endian Explicit VR Little Endian JPEG 2000 Image Compression JPEG 2000 Image Compression (Lossless Only) JPEG Baseline (Process 1) JPEG Extended (Process 2 & 4) JPEG Lossless, Non-Hierarchical, FOP (Process 14) RLE Lossless	1.2.840.10008.1.2 1.2.840.10008.1.2.2 1.2.840.10008.1.2.1 1.2.840.10008.1.2.4.91 1.2.840.10008.1.2.4.90 1.2.840.10008.1.2.4.50 1.2.840.10008.1.2.4.51 1.2.840.10008.1.2.4.70 1.2.840.10008.1.2.5

Table 6: Accepted attribute values

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

3.1.3. 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

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

3.1.3.1. List of created SOP Classes

Table 7: List of created SOP Classes

SOP Class Name	SOP Class UID
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1.1
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7
Multiframe True Color Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.4

3.1.3.2. CT Image Storage SOP Class

Table 8: IOD of Created CT Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Patient Study	Patient Study Module	ALWAYS
Series	General Series Module	ALWAYS
Frame of Reference	Frame of Reference Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	Image Plane Module	ALWAYS
	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS
	CT Image Module	ALWAYS
VOI LUT Module	VOI LUT Module	ALWAYS
	SOP Common Module	ALWAYS

Table 9: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		ALWAYS	COPY	copied from source data
Patient ID	0010,0020	LO		ALWAYS	COPY	copied from source data
Issuer of Patient ID	0010,0021	LO		VNAP	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		VNAP	COPY	copied from source data
Patient's Sex	0010,0040	CS		ALWAYS	COPY	copied from source data

Table 10: General Study Module

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

Table 11: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Admitting Diagnoses	0008,1080	LO		ANAP	COPY	copied from source data
Description						

Table 12: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	COPY	copied from source data
Series Time	0008,0031	TM		ALWAYS	COPY	copied from source data
Modality	0008,0060	CS	XA	ALWAYS	COPY	copied from source data
Series Description	0008,103E	LO		ANAP	COPY	copied from source data
Performing Physician's Name	0008,1050	PN		ANAP	COPY	copied from source data
Patient Position	0018,5100	CS		EMPTY	COPY	copied from source data
Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
Series Number	0020,0011	IS		ALWAYS	COPY	copied from source data
Laterality	0020,0060	CS		ANAP	COPY	copied from source data
Performed Procedure Step Start Date	0040,0244	DA		ALWAYS	COPY	copied from source data
Performed Procedure Step Start Time	0040,0245	TM		ALWAYS	COPY	copied from source data
Performed Procedure Step ID	0040,0253	SH		ALWAYS	COPY	copied from source data

Table 13: Frame of Reference Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame of Reference UID	0020,0052	UI		ALWAYS	COPY	copied from source data
Position Reference Indicator	0020,1040	LO		VNAP	COPY	copied from source data

Table 14: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	where "x" is the detailed application SW version.

Table 15: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		VNAP	FIXED	
Content Date	0008,0023	DA		ANAP	AUTO	
Content Time	0008,0033	TM		ANAP	AUTO	
Acquisition Number	0020,0012	IS		VNAP	AUTO	
Instance Number	0020,0013	IS		ANAP	AUTO	

Burned in Annotation	0028,0301	CS		VNAP	AUTO	
Lossy Image Compression	0028,2110	CS		VNAP	AUTO	

Table 16: 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	
Slice Location	0020,1041	DS		ANAP	AUTO	
Pixel Spacing	0028,0030	DS		ALWAYS	AUTO	

Table 17: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rows	0028,0010	US		ALWAYS	COPY	copied from source data
Columns	0028,0011	US		ALWAYS	COPY	copied from source data
Pixel Representation	0028,0103	US	0000	ALWAYS	COPY	copied from source data
Samples per Pixel	0028,0002	US	1	ALWAYS	FIXED	
Bits Allocated	0028,0100	US	16	ALWAYS	FIXED	
Bits Stored	0028,0101	US	16	ALWAYS	FIXED	
High Bit	0028,0102	US	15	ALWAYS	FIXED	
Pixel Data	7FE0,0010	OW/OB		ALWAYS	COPY	copied from source data

Table 18: CT Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS	DERIVED, SECONDARY	ALWAYS	FIXED	
KVP	0018,0060	DS		VNAP	COPY	copied from source data
Acquisition Number	0020,0012	IS		VNAP	COPY	
Samples per Pixel	0028,0002	US	1	ALWAYS	FIXED	
Photometric Interpretation	0028,0004	CS	MONOCHROME2	ALWAYS	FIXED	
Bits Allocated	0028,0100	US	16	ALWAYS	FIXED	
Bits Stored	0028,0101	US	16	ALWAYS	FIXED	
High Bit	0028,0102	US	15	ALWAYS	FIXED	
Rescale Intercept	0028,1052	DS		ALWAYS	COPY	copied from source data
Rescale Slope	0028,1053	DS		ALWAYS	COPY	copied from source data
Rescale Type	0028,1054	LO	HU	ALWAYS		

Table 19: VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Window Center	0028,1050	DS		ALWAYS	COPY	copied from source data
Window Width	0028,1051	DS		ALWAYS	COPY	copied from source data

Table 20: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Creation Date	0008,0012	DA		ALWAYS	AUTO	
Instance Creation Time	0008,0013	TM		ALWAYS	AUTO	
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.2	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Instance Number	0020,0013	IS		ALWAYS	AUTO	

3.1.3.3. X-Ray Angiographic Image Storage SOP Class

Table 21: IOD of Created X-Ray Angiographic Image Storage Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS
	Cine Module	ALWAYS
	Multi-Frame Module	ALWAYS
	Display Shutter Module	ALWAYS
	X-Ray Image Module	ALWAYS
	X-Ray Acquisition Module	ALWAYS
	X-Ray Table Module	ALWAYS
	XA Positioner Module	ALWAYS
	DX Detector Module	ALWAYS
	VOI LUT Module	ALWAYS
	SOP Common Module	ALWAYS

Table 22: 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 Sex	0010,0040	CS		VNAP	COPY	

Table 23: 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 Instance UID	0020,000D	UI		ALWAYS	AUTO	
Study ID	0020,0010	SH		VNAP	COPY	

Table 24: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	
Series Time	0008,0031	TM		ANAP	COPY	
Modality	0008,0060	CS	XA	ALWAYS	FIXED	
Series Description	0008,103E	LO		ANAP	COPY	
Performing Physician's Name	0008,1050	PN		ANAP	COPY	
Related Series Sequence	0008,1250	SQ		ANAP	COPY	
>Study Instance UID	0020,000D	UI		ALWAYS	AUTO	
>Series Instance UID	0020,000E	UI		ALWAYS	AUTO	
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP	COPY	
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	
Series Number	0020,0011	IS		VNAP	COPY	
Performed Procedure Step Start Date	0040,0244	DA		ANAP	COPY	
Performed Procedure Step Start Time	0040,0245	TM		ANAP	COPY	
Performed Procedure Step ID	0040,0253	SH		ANAP	COPY	

Table 25: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	where "x" application SW version

Table 26: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		ANAP	COPY	
Acquisition Date	0008,0022	DA		ANAP	COPY	
Content Date	0008,0023	DA		VNAP	COPY	
Acquisition Time	0008,0032	TM		ANAP	COPY	
Content Time	0008,0033	TM		VNAP	COPY	
Instance Number	0020,0013	IS		VNAP	COPY	
Patient Orientation	0020,0020	CS		ANAP	COPY	
Lossy Image Compression	0028,2110	CS		ANAP	COPY	
Icon Image Sequence	0088,0200	SQ		ANAP	COPY	
>Samples per Pixel	0028,0002	US		ALWAYS	COPY	
>Photometric Interpretation	0028,0004	CS		ALWAYS	COPY	
>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		ANAP	COPY	

Table 27: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS	COPY	
Photometric Interpretation	0028,0004	CS		ALWAYS	COPY	
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	OB/OW		VNAP	COPY	

Table 28: Cine Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Cine Rate	0018,0040	IS		ANAP	COPY	
Frame Time	0018,1063	DS		ALWAYS	COPY	

Table 29: Multi-Frame Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Number of Frames	0028,0008	IS		ALWAYS	COPY	
Frame Increment Pointer	0028,0009	AT		ALWAYS	COPY	

Table 30: Display Shutter Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Shutter Shape	0018,1600	CS		ALWAYS	COPY	
Shutter Left Vertical Edge	0018,1602	IS		ALWAYS	COPY	
Shutter Right Vertical Edge	0018,1604	IS		ALWAYS	COPY	
Shutter Upper Horizontal Edge	0018,1606	IS		ALWAYS	COPY	
Shutter Lower Horizontal Edge	0018,1608	IS		ALWAYS	COPY	

Table 31: X-Ray Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		ALWAYS	COPY	
Samples per Pixel	0028,0002	US		ALWAYS	COPY	
Photometric Interpretation	0028,0004	CS		ALWAYS	COPY	
Frame Increment Pointer	0028,0009	AT		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 Intensity Relationship	0028,1040	CS		ALWAYS	COPY	
Lossy Image Compression	0028,2110	CS		ALWAYS	COPY	

Table 32: X-Ray Acquisition Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
KVP	0018,0060	DS		VNAP	COPY	
Exposure Time	0018,1150	IS		VNAP	COPY	
Radiation Setting	0018,1155	CS		ALWAYS	COPY	
Imager Pixel Spacing	0018,1164	DS		ANAP	COPY	
Pixel Spacing	0028,0030	DS		ALWAYS	COPY	

Table 33: X-Ray Table Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Table Motion	0018,1134	DS		VNAP	COPY	
Table Angle	0018,1138	DS		ANAP	COPY	

Table 34: XA Positioner Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Detector	0018,1110	DS		ANAP	COPY	
Distance Source to Patient	0018,1111	DS		ANAP	COPY	
Positioner Motion	0018,1500	CS		VNAP	COPY	
Positioner Primary Angle	0018,1510	DS		VNAP	AUTO	AUTO: Derived from modality supplied information.
Positioner Secondary angle	0018,1511	DS		VNAP	AUTO	AUTO: Derived from modality supplied information.
Positioner Primary Angle Increment	0018,1520	DS		VNAP	COPY	
Positioner Secondary Angle Increment	0018,1521	DS		VNAP	COPY	

Table 35: DX Detector Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Imager Pixel Spacing	0018,1164	DS		ALWAYS	COPY	
Pixel Spacing	0028,0030	DS		ALWAYS	COPY	

Table 36: VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Window Center	0028,1050	DS		ALWAYS	COPY	
Window Width	0028,1051	DS		ALWAYS	COPY	

Table 37: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Creation Date	0008,0012	DA		ANAP	COPY	
Instance Creation Time	0008,0013	TM		ANAP	COPY	
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1. 12.1	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	
Instance Number	0020,0013	IS		ANAP	COPY	

3.1.3.4. X-Ray 3D Angiographic Image Storage

Table 38: IOD of Created X-Ray 3D Angiographic Image Storage Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
	Enhanced Series Module	ALWAYS
Image	Frame Of Reference Module	ALWAYS
	General Equipment Module	ALWAYS
	Enhanced General Equipment Module	ALWAYS
	Image Pixel Module	ALWAYS
	Acquisition Context Module	ALWAYS
	Multi-frame Functional Groups Module	ALWAYS
	X-Ray 3D Image Module	ALWAYS
	X-Ray 3D Reconstruction Module	ALWAYS
	X-Ray 3D Angiographic Acquisition Module	User Option
	SOP Common Module	ALWAYS

Table 39: 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 Sex	0010,0040	CS		VNAP	COPY	

Table 40: 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 Instance UID	0020,000D	UI		ALWAYS	AUTO	
Study ID	0020,0010	SH		VNAP	COPY	

Table 41: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	
Series Time	0008,0031	TM		ANAP	COPY	
Modality	0008,0060	CS	XA	ALWAYS	COPY	
Series Description	0008,103E	LO		ANAP	COPY	
Performing Physician's Name	0008,1050	PN		ANAP	COPY	
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	
Series Number	0020,0011	IS		VNAP	COPY	
Laterality	0020,0060	CS		ANAP	COPY	
Performed Procedure Step Start Date	0040,0244	DA		ANAP	COPY	
Performed Procedure Step Start Time	0040,0245	TM		ANAP	COPY	
Performed Procedure Step ID	0040,0253	SH		ANAP	COPY	
Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS		
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP		

Table 42: Enhanced Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Number	0020,0011	IS		ALWAYS	COPY	

Table 43: Frame of Reference Module

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

Table 44: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		ANAP	COPY	
Station Name	0008,1010	SH		ANAP	COPY	
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ANAP	COPY	
Device Serial Number	0018,1000	LO		ANAP	COPY	
Software Versions	0018,1020	LO	1.6.x	ANAP	COPY	where "x" is the detailed application SW version.

Table 45: Enhanced General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	COPY	

Device Serial Number	0018,1000	LO		ALWAYS	COPY	
Software Versions	0018,1020	LO	1.6.x	ALWAYS	COPY	where "x" application SW version

Table 46: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS	COPY	
Photometric Interpretation	0028,0004	CS		ALWAYS	COPY	
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	UN		ALWAYS	COPY	

Table 47: Acquisition Context Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Context Sequence	0040,0555	SQ		VNAP	COPY	

Table 48: Multi-frame Functional Groups 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	COPY	
Number of Frames	0028,0008	IS		ALWAYS	COPY	
Shared Functional Groups Sequence	5200,9229	SQ		VNAP	COPY	
>Pixel Measures Sequence	0028,9110	SQ		ANAP	COPY	
>>Slice Thickness	0018,0050	DS		ANAP	COPY	
>>Pixel Spacing	0028,0030	DS		ANAP	COPY	
>Frame Anatomy Sequence	0020,9071	SQ		ANAP	COPY	
>>Frame Laterality	0020,9072	CS		ALWAYS	COPY	
>>Anatomic Region Sequence	0008,2218	SQ		ALWAYS	COPY	
>>>Code Value	0008,0100	SH		ALWAYS	COPY	
>>>Coding Scheme Designator	0008,0102	SH		ALWAYS	COPY	
>>>Code Meaning	0008,0104	LO		ALWAYS	COPY	
Per-frame Functional Groups Sequence	5200,9230	SQ		ALWAYS	COPY	
>Frame Content Sequence	0020,9111	SQ		ANAP	COPY	
>Plane Position Sequence	0020,9113	SQ		ANAP	COPY	
>>Image Position (Patient)	0020,0032	DS		ANAP	COPY	
>Plane Orientation Sequence	0020,9116	SQ		ANAP	COPY	
>>Image Orientation (Patient)	0020,0037	DS		ANAP	COPY	
>Derivation Image Sequence	0008,9124	SQ		ANAP	COPY	
>>Source Image Sequence	0008,2112	SQ		VNAP	COPY	
>>Derivation Code Sequence	0008,9215	SQ		ALWAYS	COPY	
>>>Code Value	0008,0100	SH		ALWAYS	COPY	
>>>Coding Scheme Designator	0008,0102	SH		ALWAYS	COPY	

>>>Code Meaning	0008,0104	LO		ALWAYS	COPY	
>Frame VOI LUT Sequence	0028,9132	SQ		ANAP	COPY	
>>Window Center	0028,1050	DS		ALWAYS	COPY	
>>Window Width	0028,1051	DS		ALWAYS	COPY	
>X-Ray 3D Frame Type Sequence	0018,9504	SQ		ANAP	COPY	
>>Frame Type	0008,9007	CS		ALWAYS	COPY	
>>Reconstruction Index	0020,9536	US		ALWAYS	COPY	
>>Pixel Presentation	0008,9205	CS		ALWAYS	COPY	
>>Volumetric Properties	0008,9206	CS		ALWAYS	COPY	
>>Volume Based Calculation Technique	0008,9207	CS		ALWAYS	COPY	

Table 49: X-Ray 3D Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Type	0008,0008	CS		ALWAYS		
Content Qualification	0018,9004	CS		ALWAYS		
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Bits Allocated	0028,0100	US		ALWAYS		
Bits Stored	0028,0101	US		ALWAYS		
High Bit	0028,0102	US		ALWAYS		
Burned In Annotation	0028,0301	CS		ALWAYS		
Lossy Image Compression	0028,2110	CS		ALWAYS		
Presentation LUT Shape	2050,0020	CS		ALWAYS		
Pixel Presentation	0008,9205	CS		ALWAYS		
Volumetric Properties	0008,9206	CS		ALWAYS		
Volume Based Calculation Technique	0008,9207	CS		ALWAYS		
Icon Image Sequence	0088,0200	SQ		ANAP		
> Samples per Pixel	0028,0002	US		ALWAYS		
> Photometric Interpretation	0028,0004	CS		ALWAYS		
> Rows	0028,0010	US		ALWAYS		
> Columns	0028,0011	US		ALWAYS		
> Bits Allocated	0028,0100	US		ALWAYS		
> Bits Stored	0028,0101	US		ALWAYS		
> High Bit	0028,0102	US		ALWAYS		
> Pixel Representation	0028,0103	US		ALWAYS		
> Pixel Data	7FE0,0010	OB		ANAP		
> SOP Class UID	0008,0016	UI		ANAP		
> SOP Instance UID	0008,0018	UI		ANAP		
> Instance Number	0020,0013	IS		ANAP		

Table 50: X-Ray 3D Reconstruction Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
X-Ray 3D Reconstruction Sequence	0018,9530	SQ		ALWAYS		
>Application Name	0018,9524	LO		ALWAYS		
>Application Version	0018,9525	LO	1.6.x	ALWAYS		where "x" application SW version
>Application Manufacturer	0018,9526	LO		ALWAYS		

>Algorithm Type	0018,9527	CS	ALWAYS		
>Acquisition Index	0020,9518	US	ALWAYS		

Table 51: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.13.1.1	ALWAYS	FIXED	
Specific Character Set	0008,0005	CS		ALWAYS		As supported by hosting platform
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Original Specialized SOP Class UID	0008,001B	UI		ANAP	COPY	copied from source data
Instance Creation Date	0008,0012	DA		ANAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		ANAP	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP		
Content Qualification	0018,9004	CS		ANAP		

3.1.3.5. Raw data Storage SOP class

Table 52: IOD of Created Raw Data Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Frame of Reference	Frame of Reference	OPTIONAL
Equipment	General Equipment Module	ALWAYS
Image	Acquisition Context Module	ALWAYS
	Raw Data Module	ALWAYS
	SOP Common Module	ALWAYS

Table 53 : Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		ALWAYS	COPY	copied from source data
Patient ID	0010,0020	LO		ALWAYS	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		VNAP	COPY	copied from source data
Patient's Sex	0010,0040	CS		ALWAYS	COPY	copied from source data

Table 54 : General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA		ALWAYS	COPY	copied from source data
Study Time	0008,0030	TM		ALWAYS	COPY	copied from source data
Referring Physician's Name	0008,0090	PN		VNAP	COPY	copied from source data
Study Instance UID	0020,000D	UI		ALWAYS	COPY	copied from source data
Study ID	0020,0010	SH		ALWAYS	COPY	copied from source data
Accession Number	0008,0050	SH		EMPTY	AUTO, USER	

Table 55 : General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	copied from source data
Series Time	0008,0031	TM		ANAP	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Description	0008,103E	LO		ANAP		
Performing Physicians' name	0008,1050	PN		ANAP		
Related Series Sequence	0008,1250	SQ		ANAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP		
Series Instance UID	0020,000E	UI		ALWAYS		
Series Number	0020,0011	IS		VNAP	COPY	copied from source data
Laterality	0020,0060	CS		ANAP		
Performed Procedure Step Start Date	0040, 0244	DA		ANAP		
Performed Procedure Step Start Time	0040,0245	TM		ANAP		
Performed Procedure Step ID	0040,0253	SH		ANAP		

Table 56: Frame of Reference Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame of Reference UID	0020,0052	UI		ALWAYS	COPY	copied from source data
Position Reference Indicator	0020,1040	LO		VNAP	COPY	copied from source data

Table 57: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		ANAP	USER	
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ANAP	FIXED	
Device Serial Number	0018,1000	LO		ANAP	COPY	copied from source data
Software Versions	0018,1020	LO	1.6.x	ANAP	COPY	where "x" application SW version

Table 58: Acquisition Context Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Context Sequence	0040,0555	SQ		VNAP	COPY	copied from source data

Table 59: Raw Data Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Content Date	0008,0023	DA		ALWAYS	COPY	copied from source data

Content Time	0008,0033	TM		ALWAYS	COPY	copied from source data
Creator Version UID	0008,9123	UI		ALWAYS	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data

Table 60: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.66	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Original Specialized SOP Class UID	0008,001B	UI		VNAP	COPY	copied from source data
Instance Creation Date	0008,0012	DA		VNAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		VNAP	COPY	copied from source data
Instance Number	0020,0013	IS		VNAP		

3.1.3.6. Secondary Capture Image Storage SOP class

Table 61: 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
Series	General Series Module	ALWAYS
Equipment	General Equipment Module SC Equipment Module	CONDITIONAL ALWAYS
Image	General Image Module Image Pixel Module SOP Common Module	ALWAYS ALWAYS ALWAYS

Table 62: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		ALWAYS	COPY	copied from source data
Patient ID	0010,0020	LO		ALWAYS	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		ALWAYS	COPY	copied from source data
Patient's Sex	0010,0040	CS		ALWAYS	COPY	copied from source data

Table 63: General Study Module

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

Table 64: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ALWAYS	COPY	copied from source data
Series Time	0008,0031	TM		ALWAYS	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
Series Number	0020,0011	IS		VNAP	COPY	copied from source data
Related Series Sequence	0008,1250	SQ		VNAP		
>Study Instance UID	0020,000D	UI		ALWAYS		
>Series Instance UID	0020,000E	UI		ALWAYS		
>Purpose of Reference Code Sequence	0040,A170	SQ		EMPTY		

Table 65: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP		
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	Where "x" is the detailed application SW version.

Table 66 : SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS		ANAP		
Conversion Type	0008,0064	CS	WSD	ALWAYS		

Table 67: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS		ALWAYS		
Patient Orientation	0020,0020	CS		VNAP		

Table 68: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Planar Configuration	0028,0006	US		ALWAYS		
Rows	0028,0010	US		ALWAYS	COPY	copied from source data
Columns	0028,0011	US		ALWAYS	COPY	copied from source data
Bits Allocated	0028,0100	US	8	ALWAYS		
Bits Stored	0028,0101	US	8	ALWAYS		

High Bit	0028,0102	US	7	ALWAYS		
Pixel Representation	0028,0103	US	0000	ALWAYS	COPY	copied from source data
Pixel Data	7FE0,0010	OW/OB		ALWAYS	COPY	copied from source data

Table 69: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.7	ALWAYS	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Instance Creation Date	0008,0012	DA		ANAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		ANAP	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data

3.1.3.7. Multiframe True Color Secondary Capture Image Storage SOP class

Table 70: IOD of Created Multiframe True Color Secondary Capture Image Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	CONDITIONAL
	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
	Image Pixel Module	ALWAYS
	Cine Module	CONDITIONAL
	Multi-Frame Module	ALWAYS
	Multi-Frame Functional Groups Module	OPTIONAL
	SC Multi-frame Image Module	ALWAYS
	SOP Common Module	ALWAYS

Table 71: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN		VNAP	COPY	copied from source data
Patient ID	0010,0020	LO		VNAP	COPY	copied from source data
Patient's Birth Date	0010,0030	DA		VNAP	COPY	copied from source data
Patient's Sex	0010,0040	CS		VNAP	COPY	copied from source data

Table 72: General Study Module

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

Table 73: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAP	COPY	copied from source data
Series Time	0008,0031	TM		ANAP	COPY	copied from source data
Modality	0008,0060	CS		ALWAYS	COPY	copied from source data
Series Instance UID	0020,000E	UI		ALWAYS	COPY	copied from source data
Series Number	0020,0011	IS		ANAP	COPY	copied from source data
Related Series Sequence	0008,1250	SQ		ANAP	AUTO	
>Study Instance UID	0020,000D	UI		ALWAYS	AUTO	
>Series Instance UID	0020,000E	UI		ALWAYS	AUTO	
>Purpose of Reference Code Sequence	0040,A170	SQ		VNAP	AUTO	

Table 74: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips	ALWAYS	FIXED	
Institution Name	0008,0080	LO		VNAP	COPY	copied from source data
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	CONFIG	
Device Serial Number	0018,1000			ANAP	AUTO	
Software Versions	0018,1020	LO	1.6.x	ALWAYS	CONFIG	Where "x" is the detailed application SW version.

Table 75 : SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS		ANAP		
Conversion Type	0008,0064	CS	WSD	ALWAYS		

Table 76: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS		VNAP		
Patient Orientation	0020,0020	CS		VNAP		
Burned in Annotation	0028,0301	CS		ANAP		

Table 77: Image Pixel Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Samples per Pixel	0028,0002	US		ALWAYS		
Photometric Interpretation	0028,0004	CS		ALWAYS		
Planar Configuration	0028,0006	US		ALWAYS		
Rows	0028,0010	US		ALWAYS	COPY	copied from source data
Columns	0028,0011	US		ALWAYS	COPY	copied from source data
Bits Allocated	0028,0100	US	8	ALWAYS		

Bits Stored	0028,0101	US	8		ALWAYS		
High Bit	0028,0102	US	7		ALWAYS		
Pixel Representation	0028,0103	US	0000		ALWAYS	COPY	copied from source data
Pixel Data	7FE0,0010	OW/OB			ALWAYS	COPY	copied from source data

Table 78: Cine Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame Time	0018,1063	DS		ALWAYS	COPY	copied from source data

Table 79: Multi-Frame Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Number of Frames	0028,0008	DS		ALWAYS	COPY	copied from source data
Frame Increment Pointer	0028,0009	AT		ALWAYS	COPY	copied from source data

Table 80: Multi-Frame Functional Groups Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS		ALWAYS	COPY	copied from source data
Number of Frames	0028,0008	IS		ALWAYS	COPY	copied from source data

Table 81: SC Multi-Frame Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Frame Increment Pointer	0028,0009	AT		ALWAYS	COPY	copied from source data
Burned In Annotation	0028,0301	CS		ALWAYS	COPY	copied from source data

Table 82: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.7.4	ALWAYS	FIXED	
Specific Character Set	0008,0005	CS		ALWAYS		As supported by hosting platform
SOP Instance UID	0008,0018	UI		ALWAYS	COPY	copied from source data
Instance Creation Date	0008,0012	DA		ANAP	COPY	copied from source data
Instance Creation Time	0008,0013	TM		ANAP	COPY	copied from source data
Instance Number	0020,0013	IS		ANAP	COPY	copied from source data

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