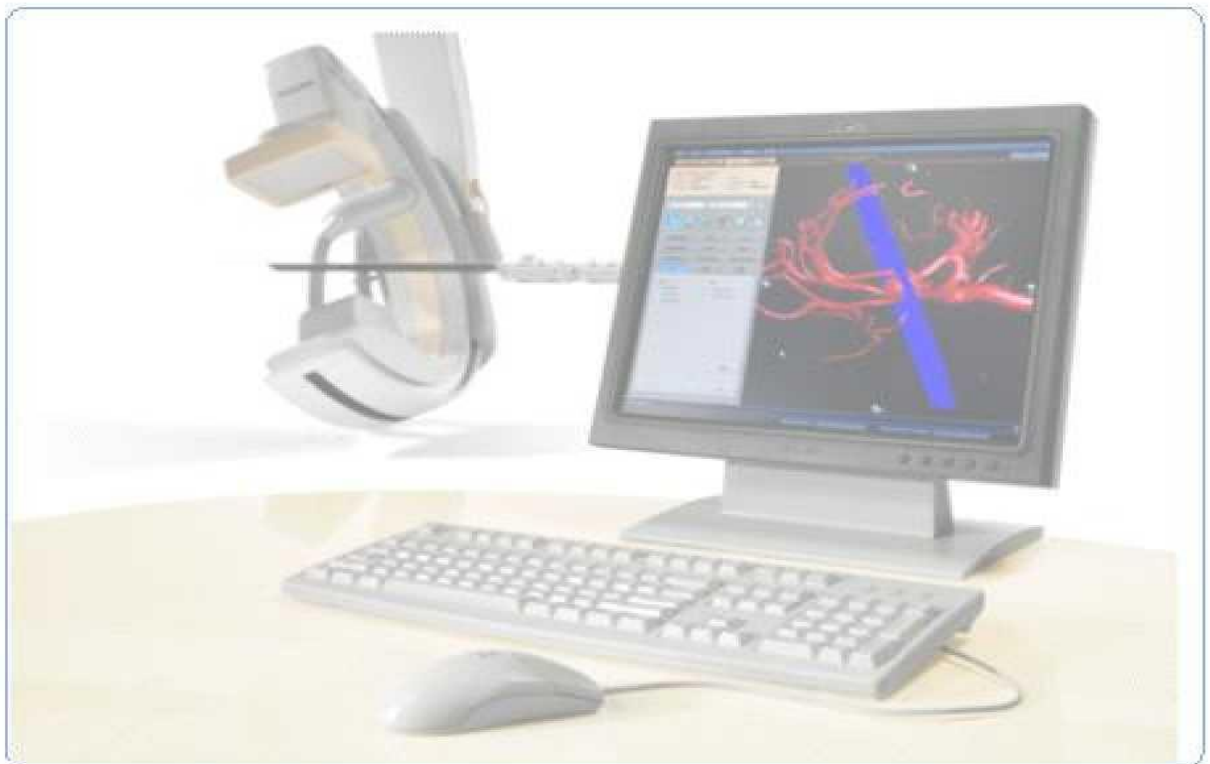


DICOM Conformance Statement

Application Annex:

AneurysmFlow R1.0

On Interventional Workspot R1.4



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1. Introduction

This DICOM Conformance Statement annex is applicable to the AneurysmFlow R1.0 for Interventional Workspot hosting platform, later referred to as AneurysmFlow

AneurysmFlow is a software tool intended to provide relevant information to the intervention list during cerebral aneurysm embolization treatment, based on quantification of blood flow changes.

AneurysmFlow is a software medical device and is intended to be used in combination with a Philips interventional X-ray system and 3DRA data

AneurysmFlow is a software product (Interventional Tool) that provides color coded and vector field representation of a digital subtraction angiography (DSA). It can quantify blood flow rates in the artery based on DSA and 3DRA data. It can visualize blood flow patterns in an aneurysm based on DSA data. It can also provide a side by side visual and quantitative comparison between two acquisitions.

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 | 01-Mar-2016 | Authorized | Initial Version for AneurysmFlow R1.0 on Interventional Workspot R1.4.x where x is 0 or higher |
| 01 | 17-Nov-2016 | Authorized | Editorial changes |
| 02 | 10-Jan-2017 | Authorized | Updated value for Manufacturer (0008, 0070) from "Philips Medical Systems" to "Philips". |

1.2. Terminology

| | |
|-------|--|
| DICOM | Digital Imaging and Communications in Medicine |
| IOD | Information Object Definition |
| UID | Unique Identifier |
| VR | Value Representation |
| DSA | Digital Subtraction Angiography |
| MAFA | Mean Aneurysm Flow Amplitude |

2. Data Specifications

2.1. Supported IOD's

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

| | |
|----------|--|
| ACCEPTED | The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import in AneurysmFlow 1.0 for viewing and analysis. |
| CREATED | The AneurysmFlow 1.0 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 |
| X-Ray Angiographic Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.12.1 | Yes | Yes |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | No | Yes |

2.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by AneurysmFlow 1.0 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 | | 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 | 1.2.840.10008.1.2 |
| | | Explicit VR Big Endian | 1.2.840.10008.1.2.2 |
| | | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| | | JPEG 2000 Image Compression | 1.2.840.10008.1.2.4.91 |
| | | JPEG 2000 Image Compression (Lossless Only) | 1.2.840.10008.1.2.4.90 |
| | | JPEG Baseline (Process 1) | 1.2.840.10008.1.2.4.50 |
| | | JPEG Extended (Process 2 & 4) | 1.2.840.10008.1.2.4.51 |
| | | JPEG Lossless, Non-Hierarchical, FOP (Process 14) | 1.2.840.10008.1.2.4.70 |
| | | RLE Lossless | 1.2.840.10008.1.2.5 |

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 |

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. List of created SOP Classes

Table 6: List of created SOP Classes

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

2.1.2.1. X-Ray Angiographic Image Storage SOP Class

Table 7: 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 |
| | Extended DICOM and private attributes | OPTIONAL |

Table 8: Patient Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Name | 0010,0010 | PN | | VNAP | | |
| Patient ID | 0010,0020 | LO | | VNAP | | |
| Patient's Birth Date | 0010,0030 | DA | | VNAP | | |
| Patient's Sex | 0010,0040 | CS | | VNAP | | |

Table 9: General Study Module

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

Table 10: General Series Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|-------------------------------------|-----------|----|-------|-------------------|--------|---------|
| Series Date | 0008,0021 | DA | | ANAP | | |
| Series Time | 0008,0031 | TM | | ANAP | | |
| Modality | 0008,0060 | CS | | ALWAYS | | |
| Series Description | 0008,103E | LO | | ANAP | | |
| Performing Physician's 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 | | |
| >Purpose of Reference Code Sequence | 0040,A170 | SQ | | VNAP | | |
| Series Instance UID | 0020,000E | UI | | ALWAYS | | |
| Series Number | 0020,0011 | IS | | VNAP | | |
| 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 11: 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 | AUTO | |
| Station Name | 0008,1010 | SH | | | | |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS | CONFIG | |
| Device Serial Number | 0018,1000 | | | | | |
| Software Versions | 0018,1020 | LO | 1.4.x | ALWAYS | CONFIG | where "x" is the detailed application SW version. |

Table 12: General Image Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|-----------------------------|-----------|-------|-------|-------------------|--------|---------|
| Image Type | 0008,0008 | CS | | ANAP | | |
| Acquisition Date | 0008,0022 | DA | | ANAP | | |
| Content Date | 0008,0023 | DA | | VNAP | | |
| Acquisition Time | 0008,0032 | TM | | ANAP | | |
| Content Time | 0008,0033 | TM | | VNAP | | |
| Instance Number | 0020,0013 | IS | | VNAP | | |
| Patient Orientation | 0020,0020 | CS | | ANAP | | |
| Lossy Image Compression | 0028,2110 | CS | | ANAP | | |
| 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 | OW/OB | | ANAP | | |

Table 13: 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 | | |
| 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/OW | | VNAP | | |

Table 14: Cine Module

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

Table 15: Multi-Frame Module

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

Table 16: Display Shutter Module

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

Table 17: X-Ray Image Module

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

Table 18: X-Ray Acquisition Module

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

Table 19: X-Ray Table Module

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

Table 20: XA Positioner Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|------------------------------------|-----------|----|-------|-------------------|--------|---------|
| Distance Source to Patient | 0018,1111 | DS | | ANAP | | |
| Distance Source to Patient | 0018,1111 | DS | | ANAP | | |
| Positioner Motion | 0018,1500 | CS | | VNAP | | |
| Positioner Primary Angle | 0018,1510 | DS | | VNAP | | |
| Positioner Secondary Angle | 0018,1511 | DS | | VNAP | | |
| Positioner Primary Angle Increment | 0018,1520 | DS | | VNAP | | |

| | | | | | | |
|--------------------------------------|-----------|----|--|------|--|--|
| Positioner Secondary Angle Increment | 0018,1521 | DS | | VNAP | | |
|--------------------------------------|-----------|----|--|------|--|--|

Table 21: DX Detector Module

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

Table 22: VOI LUT Module

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

Table 23: SOP Common Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|------------------------|-----------|----|------------------------------|-------------------|--------|---------|
| Instance Creation Date | 0008,0012 | DA | | ANAP | | |
| Instance Creation Time | 0008,0013 | TM | | ANAP | | |
| SOP Class UID | 0008,0016 | UI | 1.2.840.10008.5.1.4.1.1.12.1 | ALWAYS | | |
| SOP Instance UID | 0008,0018 | UI | | ALWAYS | | |
| Instance Number | 0020,0013 | IS | | ANAP | | |

Table 24: Extended DICOM and private attributes for X-Ray Angiographic Image Storage SOP Class

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|---------------------------------|-----------|----|-------|-------------------|--------|---------|
| Conversion Type | 0008,0064 | CS | WSD | ANAP | AUTO | |
| Table Horizontal Rotation Angle | 0018,9469 | FL | | ANAP | | |
| Table Cradle Tilt Angle | 0018,9471 | FL | | ANAP | | |
| Application Version | 0018,9525 | LO | | ANAP | | |
| Frame Of Reference UID | 0020,0013 | UI | | ANAP | | |
| Position Reference Indicator | 0020,1040 | LO | | ANAP | | |
| Requested Procedure ID | 0040,1001 | SH | | ANAP | | |

2.1.2.2. Secondary Capture Image Storage SOP class

Table 25: 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 | CONDITIONAL |
| | SC Equipment Module | ALWAYS |

| | | |
|-------|---------------------------------------|-------------|
| Image | General Image Module | ALWAYS |
| | Image Pixel Module | ALWAYS |
| | SOP Common Module | ALWAYS |
| | Extended DICOM and private attributes | CONDITIONAL |

Table 26: Patient Module

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|----------------------|-----------|----|-------|-------------------|--------|---------|
| Patient's Name | 0010,0010 | PN | | ALWAYS | AUTO | |
| Patient ID | 0010,0020 | LO | | ALWAYS | AUTO | |
| Patient's Birth Date | 0010,0030 | DA | | ALWAYS | AUTO | |
| Patient's Sex | 0010,0040 | CS | | ALWAYS | AUTO | |

Table 27: General Study Module

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

Table 28: 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 | AUTO | |
| Series Instance UID | 0020,000E | UI | | ALWAYS | AUTO | |
| Series Number | 0020,0011 | IS | | VNAP | AUTO | |
| 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 29: 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 | AUTO | |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS | CONFIG | |
| Device Serial Number | 0018,1000 | | | ANAP | | |
| Software Versions | 0018,1020 | LO | 1.4.x | ALWAYS | CONFIG | where "x" is the detailed application SW version. |

Table 30 : 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 31: 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 32: 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 | AUTO | |
| Columns | 0028,0011 | US | | ALWAYS | AUTO | |
| 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 | AUTO | |
| Pixel Data | 7FE0,0010 | OW/OB | | ALWAYS | AUTO | |

Table 33: 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 | AUTO | |
| Instance Creation Date | 0008,0012 | DA | | ANAP | AUTO | |
| Instance Creation Time | 0008,0013 | TM | | ANAP | AUTO | |
| Instance Number | 0020,0013 | IS | | ANAP | AUTO | |

Table 34 : Extended DICOM and private attributes for Secondary Capture Image Storage SOP Class Instances

| Attribute Name | Tag | VR | Value | Presence of Value | Source | Comment |
|------------------------|-----------|----|-------|-------------------|--------|---------|
| Requested Procedure ID | 0040,1001 | SH | | ANAP | | |