# DICOM Conformance Statement

## Application Annex:
## EP navigator R5.6 on Interventional Workspot R1.8

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# 1. DICOM Conformance Statement Overview

For information about this section, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

# 2. Contents

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# 3. Introduction

This DICOM Conformance Statement annex is applicable to EP navigator R5.6 Application. In general, the EP navigator R5.6 application is the user environment for viewing and analyzing MR and CT images. EP navigator also stores (creates) 3D-ATG as CT series SOP class, but with Modality type XA.

## 3.1. 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 |
|---|---|---|
| 01 | 10-Feb-2023 | First Release for EP navigator R5.6 on Interventional Workspot R1.8 |

## 3.2. 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.

## 3.3. 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).

## 3.4. Definitions, Terms and Abbreviations

**Table 2: Definitions, Terms and Abbreviations**

| Abbreviation/Term | Explanation |
|---|---|
| DICOM | Digital Imaging and Communications in Medicine |
| IOD | Information Object Definition |
| IW | Interventional Workspot |
| NEMA | National Electrical Manufacturers Association |
| UID | Unique Identifier |
| VR | Value Representation |
| XA | X-Ray Angiography |

## 3.5. 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

## 4. Networking

For information about this section, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 5. Media Interchange

For information about this section, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 6. Support of Character Set

For information about this section, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

## 7. Security

For information about this section, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

# 8. Annexes of "EP navigator R5.6 Application"

## 8.1. IOD Contents

This section specifies each IOD accepted and / or created by EP navigator R5.6 application.

ACCEPTED The applicable IOD is accepted for storage in the repository of the hosting platform and supported as input data for EP navigator R5.6 Application or viewing and analysis.

CREATED The EP navigator R5.6 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.

**Table 3: List of Created SOP Classes**

| IOD | | Supported | |
|---|---|---|---|
| **Name** | **UID** | **Accepted** | **Created** |
| CT Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.2 | Yes | Yes |
| MR Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.4 | Yes | No |
| Secondary Capture Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.7 | Yes | Yes |

Note: EP Navigator can also use session data as input, which is stored as SC image. However, it cannot use any other SC image object.

### 8.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by EP Navigator 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) |
|---|---|---|
| Philips | MR | Intera 1.5T and 3T, |
| | | Achieva 1.5T and 3T |
| | | Ingenia 1.5T and 3T (SW release 2.5.3 onwards) |
| | CT | Brilliance 10, 16, 40, 64, 256 slice systems |
| | XA | Allura |
| | | Azurion |
| Siemens | MR | Avanto 1.5T |
| | CT | Definition Sensation 16, 64 (32 channels) |
| General Electric | CT | Lightspeed 16, 16Pro, VCT Select (32), VCT (64) |
| Toshiba | CT | Aquilion One |

**Table 5: Accepted Transfer Syntaxes per IOD**

For information about this Table, Refer to HSDP-1068450 DICOM Conformance Statement Interventional Workspot R1.8.

Table 6: Accepted Attribute Values

| Attribute Name | Attribute Number | Values/Comments |
|---|---|---|
| Not Applicable | Not Applicable | Not Applicable |

### 8.1.2. Created SOP Instance

This section specifies each IOD created by this application.
This section specifies each IOD created. 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

#### 8.1.2.1. List of Created SOP Classes

Table 7: List of Created SOP Classes

| Name | UID |
|---|---|
| CT Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.2 |
| Secondary Capture Image Storage SOP Class | 1.2.840.10008.5.1.4.1.1.7 |

##### 8.1.2.1.1 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 |
| Series | General Series Module | ALWAYS |
| Frame of Reference | Frame of Reference Module | ALWAYS |

| Information Entity | Module | Presence Of Module |
|---|---|---|
| Equipment | General Equipment Module | ALWAYS |
| Acquisition | General Acquisition Module | CONDITIONAL (If the module is present in the source data) |
| Image | General Image Module | ALWAYS |
| | Image Plane Module | ALWAYS |
| | Image Pixel Module | ALWAYS |
| | CT Image Module | ALWAYS |
| | SOP Common Module | ALWAYS |

**Table 9: Patient Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| 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 10: General Study Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| 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 Instance UID | 0020,000D | UI | | ALWAYS | COPY | |
| Study ID | 0020,0010 | SH | | VNAP | COPY | |

**Table 11: General Series Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Series Date | 0008,0021 | DA | | ALWAYS | AUTO | |
| Series Time | 0008,0031 | TM | | ALWAYS | AUTO | |
| 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 | | VNAP | 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 | |
| Study Instance UID | 0020,000D | UI | | ALWAYS | AUTO | |
| Series Number | 0020,0011 | IS | | ALWAYS | AUTO | |
| Performed Procedure Step Start Date | 0040,0244 | DA | | ANAP | COPY | |

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Performed Procedure Step Start Time | 0040,0245 | TM | | ANAP | COPY | |
| Performed Procedure Step ID | 0040,0253 | SH | | ANAP | COPY | |

**Table 12: Frame Of Reference Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Frame of Reference UID | 0020,0052 | UI | | ALWAYS | COPY | |
| Position Reference Indicator | 0020,1040 | LO | | VNAP | COPY | |

**Table 13: General Equipment Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Manufacturer | 0008,0070 | LO | Philips | ALWAYS | FIXED | |
| Institution Name | 0008,0080 | LO | | VNAP | CONFIG | Configured Hospital name |
| Manufacturer's Model Name | 0008,1090 | LO | Interventional Workspot | ALWAYS | FIXED | |
| Device Serial Number | 0018,1000 | LO | | ALWAYS | AUTO | Mac address of Hospital NIC |
| Software Versions | 0018,1020 | LO | 1.8.x.y | ALWAYS | AUTO | Where “x.y” are the detailed application SW version |

**Table 14: General Acquisition Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Acquisition Number | 0020,0012 | IS | | ANAP | COPY | |

**Table 15: General Image Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Image Type | 0008,0008 | CS | ORIGINAL\PRIMARY\ AXIAL | ALWAYS | AUTO | |
| Content Date | 0008,0023 | DA | | ALWAYS | AUTO | |
| Content Time | 0008,0033 | TM | | ALWAYS | AUTO | |
| Instance Number | 0020,0013 | IS | | ALWAYS | AUTO | |
| Patient Orientation | 0020,0020 | CS | | VNAP | AUTO | |

**Table 16: Image Plane Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Slice Thickness | 0018,0050 | DS | | VNAP | COPY | |
| Image Position (Patient) | 0020,0032 | DS | | ALWAYS | COPY | |

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Image Orientation (Patient) | 0020,0037 | DS | | ALWAYS | COPY | |
| Slice Location | 0020,1041 | DS | | ANAP | COPY | |
| Pixel Spacing | 0028,0030 | DS | | ALWAYS | COPY | |

**Table 17: Image Pixel Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Samples per Pixel | 0028,0002 | US | | ALWAYS | AUTO | |
| Photometric Interpretation | 0028,0004 | CS | MONOCHROME2 | ALWAYS | AUTO | |
| Rows | 0028,0010 | US | | ALWAYS | AUTO | |
| Columns | 0028,0011 | US | | ALWAYS | AUTO | |
| Bits Allocated | 0028,0100 | US | | ALWAYS | AUTO | |
| Bits Stored | 0028,0101 | US | | ALWAYS | AUTO | |
| High Bit | 0028,0102 | US | | ALWAYS | AUTO | |
| Pixel Representation | 0028,0103 | US | | ALWAYS | AUTO | |
| Pixel Data | 7FE0,0010 | OW | | ALWAYS | AUTO | |

**Table 18: CT Image Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Image Type | 0008,0008 | CS | ORIGINAL\PRIMARY\ AXIAL | ALWAYS | COPY | |
| KVP | 0018,0060 | DS | | VNAP | COPY | |
| Acquisition Number | 0020,0012 | IS | | VNAP | COPY | |
| Samples per pixel | 0028,0002 | US | | ALWAYS | AUTO | |
| Photometric Interpretation | 0028,0004 | US | | ALWAYS | AUTO | |
| Bits Allocated | 0028,0100 | US | | ALWAYS | AUTO | |
| Bits Stored | 0028,0101 | US | | ALWAYS | AUTO | |
| High Bit | 0028,0102 | US | | ALWAYS | AUTO | |
| Rescale Intercept | 0028,1052 | DS | | ALWAYS | AUTO | |
| Rescale Slope | 0028,1053 | DS | | ALWAYS | AUTO | |
| Rescale Type | 0028,1054 | LO | US | ALWAYS | AUTO | |
| Isocenter Position | 300A,012C | DS | | ANAP | AUTO | |

**Table 19: SOP Common Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Specific Character Set | 0008,0005 | CS | | ANAP | AUTO | As supported by hosting platform |
| 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 | AUTO | |
| Instance Number | 0020,0013 | IS | | ALWAYS | AUTO | |

#### 8.1.2.1.2 Secondary Capture Image Storage SOP Class

**Table 20: 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 |
| | Patient Study Module | CONDITIONAL (If the module is present in the source data) |
| Series | General Series Module | ALWAYS |
| Equipment | General Equipment Module | ALWAYS |
| | SC Equipment Module | ALWAYS |
| Image | General Image Module | ALWAYS |
| | General Reference Module | ALWAYS |
| | Image Pixel Module | ALWAYS |
| | SC Image Module | ALWAYS |
| | Modality LUT Module | ALWAYS |
| | VOI LUT Module | ALWAYS |
| | SOP Common Module | ALWAYS |

**Table 21: Patient Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| 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 22: General Study Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| 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 Instance UID | 0020,000D | UI | | ALWAYS | COPY | |
| Study ID | 0020,0010 | SH | | VNAP | COPY | |
| Study Description | 0008,1030 | LO | | ANAP | COPY | |
| Procedure Code Sequence | 0008,1032 | SQ | | ANAP | COPY | |
| >Code Value | 0008,0100 | SH | | ALWAYS | COPY | |
| >Coding Scheme Designator | 0008,0102 | SH | | ALWAYS | COPY | |
| >Code Meaning | 0008,0104 | LO | | ALWAYS | COPY | |
| Physician(s) of Record | 0008,1048 | PN | | ANAP | COPY | |

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Referenced Study Sequence | 0008,1110 | SQ | | ANAP | COPY | |
| >Referenced SOP Class UID | 0008,1150 | UI | | ALWAYS | COPY | |
| >Referenced SOP Instance UID | 0008,1155 | UI | | ALWAYS | COPY | |
| Requesting Service | 0032,1033 | LO | | ANAP | COPY | |

**Table 23: Patient Study Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Patient's Weight | 0010,1030 | DS | | ANAP | COPY | |
| Patient's Age | 0010,1010 | AS | | ANAP | COPY | |
| Pregnancy Status | 0010,21C0 | US | | ANAP | COPY | |
| Admitting Diagnoses Description | 0008,1080 | LO | | ANAP | COPY | |

**Table 24: General Series Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Series Date | 0008,0021 | DA | | ALWAYS | AUTO | |
| Series Description | 0008,103E | LO | | ANAP | COPY | |
| Series Time | 0008,0031 | TM | | ALWAYS | AUTO | |
| Modality | 0008,0060 | CS | XA | ALWAYS | FIXED | |
| Series Instance UID | 0020,000E | UI | | ALWAYS | AUTO | |
| Series Number | 0020,0011 | IS | | ALWAYS | AUTO | |
| Operators' Name | 0008,1070 | PN | | ANAP | COPY | |
| Performing Physician's Name | 0008,1050 | PN | | ANAP | COPY | |
| Related Series Sequence | 0008,1250 | SQ | | VNAP | 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 | |
| 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 | |
| Performed Procedure Step Description | 0040,0254 | LO | | ANAP | COPY | |
| Request Attributes Sequence | 0040,0275 | SQ | | ANAP | COPY | |

**Table 25: General Equipment Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Manufacturer | 0008,0070 | LO | Philips | ALWAYS | FIXED | |
| Institution Name | 0008,0080 | LO | | ANAP | CONFIG | Configured Hospital Name |
| Device Serial Number | 0018,1000 | LO | | ANAP | AUTO | Mac address of Hospital NIC |
| Manufacturer's Model Name | 0008,1090 | LO | EP navigator | ALWAYS | FIXED | |
| Software Versions | 0018,1020 | LO | 5.6.x.y | ALWAYS | AUTO | Where “x.y” is the detailed application SW version. |

**Table 26: SC Equipment Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Modality | 0008,0060 | CS | XA/CT/MR | ALWAYS | AUTO | In Case Application Session: XA:<br>In case of Study or Carto export depending on input data CT=>CT,MR=>MR, 3D-ATG => CT |
| Conversion Type | 0008,0064 | CS | WSD | ALWAYS | FIXED | copied from source data |

**Table 27: General Image Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Image Type | 0008,0008 | CS | DERIVED\ SECONDARY\ 3DSEG | ALWAYS | AUTO | For Study and Carto Export: DERIVED\ SECONDARY\ 3DSEG<br>For Application Session: DERIVED\ SECONDARY |
| Content Date | 0008,0023 | DA | | ALWAYS | AUTO | |
| Content Time | 0008,0033 | TM | | ALWAYS | AUTO | |
| Instance Number | 0020,0013 | IS | | VNAP | AUTO | |
| Patient Orientation | 0020,0020 | CS | | VNAP | AUTO | |
| Image Comments | 0020,4000 | LT | 3Dseg | ALWAYS | FIXED | |

**Table 28: General Reference Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| 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 | |

**Table 29: Image Pixel Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Samples per Pixel | 0028,0002 | US | | ALWAYS | AUTO | |
| Photometric Interpretation | 0028,0004 | CS | RGB, MONOCHROME 2 | ALWAYS | AUTO | For Study and Carto Export: RGB, For Application Session: MONOCHROME2 |
| Planar Configuration | 0028,0006 | US | | 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 | 0 | ALWAYS | AUTO | |
| Pixel Data | 7FE0,0010 | OW/ OB | | ALWAYS | AUTO | |

**Table 30: SC Image Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Date of Secondary Capture | 0018,1012 | DA | | ALWAYS | AUTO | |
| Time of Secondary Capture | 0018,1014 | TM | | ALWAYS | AUTO | |

**Table 31: Modality LUT Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Rescale Intercept | 0028,1052 | DS | 0 | ALWAYS | COPY | |
| Rescale Slope | 0028,1053 | DS | 1 | ALWAYS | COPY | |
| Rescale Type | 0028,1054 | LO | US | ALWAYS | COPY | |

**Table 32: VOI LUT Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Window Center | 0028,1050 | DS | 0 | ALWAYS | COPY | |
| Window Width | 0028,1051 | DS | 0 | ALWAYS | COPY | |

**Table 33: SOP Common Module**

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Specific Character Set | 0008,0005 | CS | | ANAP | AUTO | As supported by hosting platform |
| 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 | |

| Attribute Name | TAG | VR | Value | Presence of Value | Source | Comments |
|---|---|---|---|---|---|---|
| Instance Creation Date | 0008,0012 | DA | | ALWAYS | AUTO | |
| Instance Creation Time | 0008,0013 | TM | | ALWAYS | AUTO | |
| Instance Number | 0020,0013 | IS | | ALWAYS | AUTO | |

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