

# DICOM Conformance Statement

Application Annex:

## VesselNavigator R1.2

## On Interventional Workspot R1.6



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## 2. Introduction

This DICOM Conformance Statement annex is applicable to the VesselNavigator R1.2 on Interventional Workspot R1.6 hosting platform, later referred to VesselNavigator. In general the VesselNavigator is the user environment for viewing and analyzing CT, MR and XA images.

### 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 VesselNavigator R1.2 on Interventional Workspot R1.6
01	04-Aug-2022	<ul style="list-style-type: none"> <li>Updated Value Under "General Equipment" Table for "Software Version" attribute.</li> <li>Updated Attribute Name, Tag and Value columns in Table Nos. 12, 21, 29 for created SOP Classes as mentioned in Section 3.1.3 are updated for correctness, no change in the product behavior.</li> </ul>

### 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

## 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 "VesselNavigator R1.2 application"

### 3.1. IOD Contents

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

- ACCEPTED The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import in VesselNavigator for viewing and analysis.
- CREATED The VesselNavigator 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

Name	IOD UID	Support	
		ACCEPTED	CREATED
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	No
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Yes	No
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	No	Yes

#### 3.1.2. Acceptance Criteria

This section specifies the acceptance criteria applied by Vessel Navigator 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
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Explicit VR Big Endian	1.2.840.10008.1.2.2
		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 Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Implicit VR Little Endian	1.2.840.10008.1.2
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Implicit VR Big Endian	1.2.840.10008.1.2.2
		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 Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
		RLE Lossless	1.2.840.10008.1.2.5
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 Little Endian	1.2.840.10008.1.2.1
		Implicit VR Big Endian	1.2.840.10008.1.2.2
		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 Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
		RLE Lossless	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
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

### 3.1.3.2. X-Ray Angiographic Image Storage SOP Class

Table 8: IOD of Created X-Ray Angiographic Image Storage Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
	Patient Study Module	USER DEFINED
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 9: 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		
Issuer of Patient ID	0010,0021	LO		ANAP		
Patient's Sex	0010,0040	CS		VNAP		

**Table 10: 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		
Procedure Code Sequence	0008,1032	SQ		ANAP		
>Code Value	0008,0100	SH		ANAP		
>Coding Scheme Designator	0008,0102	SH		ANAP		
>Code Meaning	0008,0104	LO		ALWAYS		
Physician(s) of Record	0008,1048	PN		ANAP		
Name of Physician(s) Reading Study	0008,1060	PN		ANAP		

**Table 11: Patient Study Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Admitting Diagnoses Description	0008,1080	LO		ANAP		
Patient's Age	0010,1010	AS		ANAP		
Additional Patient History	0010,21B0	LT		ANAP		

**Table 12: 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	XA	ALWAYS	FIXED	
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 13: 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		
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	FIXED	
Device Serial Number	0018,1000	LO		ANAP		
Software Versions	0018,1020	LO	1.2.x	ALWAYS	FIXED	where "x" is the application SW version.

**Table 14: 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		
>Image Type	0008,0008	CS		ANAP		
>SOP Class UID	0008,0016	UI		ANAP		
>SOP Instance UID	0008,0018	UI		ANAP		
>Instance Number	0020,0013	IS		ANAP		
>Patient Orientation	0020,0020	CS		ANAP		

**Table 15: 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 16: 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 17: 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 18: 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 19: 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 20: 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 21: 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 22: XA Positioner Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Distance Source to Detector	0018,1110	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 23: 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 24: 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 25: SOP Common Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Creation Date	0008,0012	DA		ANAP		
Specific Character Set	0008,0005	CS		ALWAYS	AUTO	As per hosting platform
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	FIXED	
SOP Instance UID	0008,0018	UI		ALWAYS		
Instance Number	0020,0013	IS		ANAP		

### 3.1.3.3. Secondary Capture Image Storage SOP class

**Table 26: 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	ALWAYS
	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS

Image Pixel Module	ALWAYS
SOP Common Module	ALWAYS

**Table 27: 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 28: 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 29: 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 30: General Equipment Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070		Philips	ALWAYS	FIXED	
Station Name	0008,1010	SH		ANAP		
Manufacturer's Model Name	0008,1090	LO	Interventional Workspot	ALWAYS	FIXED	
Software Versions	0018,1020	LO	1.2.x	ANAP	FIXED	where "x" is the detailed application SW version.

**Table 31 : 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 32: 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 33: 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 34: 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	
Specific Character Set	0008,0005	CS		ALWAYS	AUTO	As per 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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