

# DICOM Conformance Statement

Application Annex:

IntelliSpace Collaboration Viewer on Philips  
IntelliSpace Portal V4.0



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## 1. Introduction

This DICOM Conformance Statement annex is applicable to the IntelliSpace Collaboration Viewer which is a zero install Web-Viewer on Philips IntelliSpace Portal V4.0 hosting platform, later referred to as IntelliSpace Collaboration Viewer. In general the IntelliSpace Collaboration Viewer is the user environment for reviewing CT, SC, MR, NM and PET images.

### 1.1. Revision History

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

**Table 1: Revision History**

Document Version	Date of Issue	Status	Description
00	01 Jul 2011	Final version	Updated after review.

### 1.2. Terminology

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

## 2. Data Specifications

### 2.1. Supported IOD's

This section specifies each IOD accepted and / or created by IntelliSpace Collaboration Viewer.

ACCEPTED	The applicable IOD is accepted for storage in the repository of the hosting platform and supported for import in IntelliSpace Collaboration Viewer for viewing and analysis.
CREATED	The IntelliSpace Collaboration Viewer 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
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	No
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Yes	Yes
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Yes	No
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	Yes	No
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	Yes	No

#### 2.1.1. Acceptance Criteria

This section specifies the acceptance criteria applied by IntelliSpace Collaboration Viewer 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
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	CT-private-ELE	1.3.46.670589.33.1.4.1
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Implicit VR Little Endian	1.2.840.10008.1.2
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	CT-private-ELE	1.3.46.670589.33.1.4.1
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Implicit VR Little Endian	1.2.840.10008.1.2
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	CT-private-ELE	1.3.46.670589.33.1.4.1
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Implicit VR Little Endian	1.2.840.10008.1.2
		JPEG Lossless, Non-	1.2.840.10008.1.2.4.70

		Hierarchical, FOP (Process 14)	
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	Explicit VR Little Endian Implicit VR Little Endian	1.2.840.10008.1.2.1 1.2.840.10008.1.2
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	CT-private-ELE	1.3.46.670589.33.1.4.1
		Explicit VR Little Endian	1.2.840.10008.1.2.1
		Implicit VR Little Endian	1.2.840.10008.1.2
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70

**Table 5: Accepted attribute values**

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

### 2.1.2. Contents of Created IOD's

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

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

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

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

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

#### 2.1.2.1. Secondary Capture Image Storage SOP Class

**Table 6: IOD of Created Secondary Capture Image Storage SOP Class Instances**

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Study	Patient Study Module	CONDITIONAL
Series	General Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Equipment	SC Equipment Module	ALWAYS
Image	General Image Module	ALWAYS
Image	Image Pixel Module	ALWAYS

Image	SC Image Module	ALWAYS
Image	Overlay Plane Module	CONDITIONAL
Image	Modality LUT Module	CONDITIONAL
Image	VOI LUT Module	CONDITIONAL
Image	SOP Common Module	ALWAYS
Image	Extended Dicom and Private attributes	CONDITIONAL

Table 7: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Referenced Patient Sequence	0008,1120	SQ		ANAPCV	COPY	-
>Referenced SOP Class UID	0008,1150	UI		ALWAYS	COPY	-
>Referenced SOP Instance UID	0008,1155	UI		ALWAYS	COPY	-
Patient's Name	0010,0010	PN		ALWAYS	COPY	-
Patient ID	0010,0020	LO		ALWAYS	COPY	-
Patient's Birth Date	0010,0030	DA		VNAP	COPY	-
Patient's Birth Time	0010,0032	TM		ANAPCV	COPY	-
Patient's Sex	0010,0040	CS		VNAP	COPY	-
Other Patient IDs	0010,1000	LO		ANAPCV	COPY	-
Other Patient Names	0010,1001	PN		ANAPCV	COPY	-
Ethnic Group	0010,2160	SH		ANAPCV	COPY	-
Patient Comments	0010,4000	LT		ANAPCV	COPY	-
Issuer of Patient ID	0010,0021	LO		ANAPCV	COPY	-

Table 8: 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	-
Referring Physician Identification Sequence	0008,0096	SQ		ANAPCV	COPY	-
Study Description	0008,1030	LO		ANAPCV	COPY	-
Procedure Code Sequence	0008,1032	SQ		ANAPCV	COPY	-
Physician(s) of Record	0008,1048	PN		ANAPCV	COPY	-
Physician(s) of Record Identification Sequence	0008,1049	SQ		ANAPCV	COPY	-
Name of Physician(s) Reading Study	0008,1060	PN		ANAPCV	COPY	-
Physician(s) Reading Study Identification Sequence	0008,1062	SQ		ANAPCV	COPY	-
Referenced Study Sequence	0008,1110	SQ		ANAPCV	COPY	-
Study Instance UID	0020,000D	UI		ALWAYS	AUTO	-
Study ID	0020,0010	SH		VNAP	AUTO	-

Table 9: Patient Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Admitting Diagnoses Description	0008,1080	LO		ANAPCV	COPY	-
Admitting Diagnoses Code Sequence	0008,1084	SQ		ANAPCV	COPY	-

Patient's Age	0010,1010	AS		ANAPCV	COPY	-
Patient's Size	0010,1020	DS		ANAPCV	COPY	-
Patient's Weight	0010,1030	DS		ANAPCV	COPY	-
Occupation	0010,2180	SH		ANAPCV	COPY	-
Additional Patient History	0010,21B0	LT		ANAPCV	COPY	-

Table 10: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA		ANAPCV	AUTO	-
Series Time	0008,0031	TM		ANAPCV	AUTO	-
Modality	0008,0060	CS		ALWAYS	COPY	-
Series Description	0008,103E	LO		ANAPCV	COPY, USER	-
Performing Physician's Name	0008,1050	PN		ANAPCV	COPY	-
Operators' Name	0008,1070	PN		ANAPCV	COPY	-
Operator Identification Sequence	0008,1072	SQ		ANAPCV	COPY	-
Referenced Performed Procedure Step Sequence	0008,1111	SQ		ANAPCV	COPY	-
>Referenced SOP Class UID	0008,1150	UI		ALWAYS	COPY	-
>Referenced SOP Instance UID	0008,1155	UI		ALWAYS	COPY	-
Body Part Examined	0018,0015	CS		ANAPCV	COPY	-
Protocol Name	0018,1030	LO		ANAPCV	COPY	-
Patient Position	0018,5100	CS		ANAPCV	COPY	-
Series Instance UID	0020,000E	UI		ALWAYS	AUTO	-
Series Number	0020,0011	IS		ALWAYS	AUTO	-
Laterality	0020,0060	CS		ANAPCV	COPY	-
Smallest Pixel Value in Series	0028,0108	US /SS		ANAPCV	COPY	-
Largest Pixel Value in Series	0028,0109	US /SS		ANAPCV	COPY	-
Request Attributes Sequence	0040,0275	SQ		ANAPCV	COPY	-
Performed Procedure Step Start Date	0040,0244	DA		ANAPCV	COPY	-
Performed Procedure Step Start Time	0040,0245	TM		ANAPCV	COPY	-
Performed Procedure Step Description	0040,0254	LO		ANAPCV	COPY	-
Performed Protocol Code Sequence	0040,0260	SQ		ANAPCV	COPY	-
Comments on the Performed Procedure Step	0040,0280	ST		ANAPCV	COPY	-

Table 11: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO		ALWAYS	COPY	-
Institution Name	0008,0080	LO		ANAPCV	COPY	-
Institution Address	0008,0081	ST		ANAPCV	COPY	-
Station Name	0008,1010	SH		ALWAYS	COPY	-
Institutional Department Name	0008,1040	LO		ANAPCV	COPY	-
Manufacturer's Model Name	0008,1090	LO		ALWAYS	COPY	-
Device Serial Number	0018,1000	LO		ANAPCV	COPY	-



Software Version(s)	0018,1020	LO	4.0	ALWAYS	COPY	4.0
Spatial Resolution	0018,1050	DS		ANAPCV	COPY	-
Date of Last Calibration	0018,1200	DA		ANAPCV	COPY	-
Time of Last Calibration	0018,1201	TM		ANAPCV	COPY	-
Pixel Padding Value	0028,0120	US		ANAPCV	COPY	-
		/SS				

Table 12: SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS	CT	ALWAYS	AUTO	-
Conversion Type	0008,0064	CS	WSD	ALWAYS	AUTO	-
Secondary Capture Device ID	0018,1010	LO		ANAPCV	AUTO	-
Secondary Capture Device Manufacturer	0018,1016	LO		ALWAYS	AUTO	-
Secondary Capture Device Manufacturer's Model Name	0018,1018	LO		ALWAYS	AUTO	-
Secondary Capture Device Software Version(s)	0018,1019	LO		ALWAYS	AUTO	-
Video Image Format Acquired	0018,1022	SH		ANAPCV	AUTO	-
Digital Image Format Acquired	0018,1023	LO		ANAPCV	AUTO	-

Table 13: General Image Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Acquisition Date	0008,0022	DA		ANAPCV	COPY	-
Content Date	0008,0023	DA		ANAPCV	COPY	-
Acquisition Datetime	0008,002A	DT		ANAPCV	COPY	-
Acquisition Time	0008,0032	TM		ANAPCV	COPY	-
Content Time	0008,0033	TM		ANAPCV	COPY	-
Referenced Image Sequence	0008,1140	SQ		ANAPCV	COPY	-
>Referenced SOP Class UID	0008,1150	UI		ANAPCV	COPY	-
>Referenced SOP Instance UID	0008,1155	UI		ANAPCV	COPY	-
Derivation Description	0008,2111	ST		ANAPCV	COPY	-
Source Image Sequence	0008,2112	SQ		ANAPCV	COPY	-
Derivation Code Sequence	0008,9215	SQ		ANAPCV	COPY	-
Instance Number	0020,0013	IS		ALWAYS	AUTO, COPY	-
Patient Orientation	0020,0020	CS		ANAPCV	COPY	-
Images in Acquisition	0020,1002	IS		ANAPCV	COPY	-
Quality Control Image	0028,0300	CS		ANAPCV	COPY	-
Burned In Annotation	0028,0301	CS		ANAPCV	COPY	-
Lossy Image Compression	0028,2110	CS		ANAPCV	COPY	-
Lossy Image Compression Ratio	0028,2112	DS		ANAPCV	COPY	-
Icon Image Sequence	0088,0200	SQ		ANAPCV	COPY	-
>Samples per Pixel	0028,0002	US		ALWAYS	COPY	-
>Photometric Interpretation	0028,0004	CS		ALWAYS	COPY	-
>Planar Configuration	0028,0006	US		ANAP	COPY	-
>Rows	0028,0010	US		ALWAYS	COPY	-
>Columns	0028,0011	US		ALWAYS	COPY	-
>Pixel Aspect Ratio	0028,0034	IS		ANAP	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	-
>Smallest Image Pixel Value	0028,0106	US /SS		ANAPCV	COPY	-
>Largest Image Pixel Value	0028,0107	US /SS		ANAPCV	COPY	-
>Red Palette Color Lookup Table Descriptor	0028,1101	US /SS		ANAP	COPY	-
>Green Palette Color Lookup Table Descriptor	0028,1102	US /SS		ANAP	COPY	-
>Blue Palette Color Lookup Table Descriptor	0028,1103	US /SS		ANAP	COPY	-
>Red Palette Color Lookup Table Data	0028,1201	O W		ANAP	COPY	-
>Green Palette Color Lookup Table Data	0028,1202	O W		ANAP	COPY	-
>Blue Palette Color Lookup Table Data	0028,1203	O W		ANAP	COPY	-
>Pixel Data	7FE0,0010	O W/ OB		ANAP	COPY	-
Presentation LUT Shape	2050,0020	CS		ANAPCV	COPY	-

**Table 14: Image Pixel Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Planar Configuration	0028,0006	US		ANAP	COPY	-
Rows	0028,0010	US		ALWAYS	AUTO, COPY	-
Columns	0028,0011	US		ALWAYS	AUTO, COPY	-
Pixel Aspect Ratio	0028,0034	IS		ANAP	COPY	-
Pixel Representation	0028,0103	US		ALWAYS	COPY	-
Smallest Image Pixel Value	0028,0106	US /SS		ANAPCV	COPY	-
Largest Image Pixel Value	0028,0107	US /SS		ANAPCV	COPY	-
Red Palette Color Lookup Table Descriptor	0028,1101	US /SS		ANAP	COPY	-
Green Palette Color Lookup Table Descriptor	0028,1102	US /SS		ANAP	COPY	-
Blue Palette Color Lookup Table Descriptor	0028,1103	US /SS		ANAP	COPY	-
Red Palette Color Lookup Table Data	0028,1201	O W		ANAP	COPY	-
Green Palette Color Lookup Table Data	0028,1202	O W		ANAP	COPY	-
Blue Palette Color Lookup Table Data	0028,1203	O W		ANAP	COPY	-
Pixel Data	7FE0,0010	O W/ OB		ALWAYS	COPY	-

**Table 15: SC Image Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Date of Secondary Capture	0018,1012	DA		ANAPCV	AUTO	-
Time of Secondary Capture	0018,1014	TM		ANAPCV	AUTO	-

**Table 16: Overlay Plane Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Overlay Rows	6000,0010	US		ALWAYS	AUTO	-
Overlay Columns	6000,0011	US		ALWAYS	AUTO	-
Overlay Description	6000,0022	LO		ANAPCV	AUTO	-
Overlay Type	6000,0040	CS		ALWAYS	AUTO	-
Overlay Subtype	6000,0045	LO		ANAPCV	AUTO	-
Overlay Origin	6000,0050	SS		ALWAYS	AUTO	-
Overlay Bits Allocated	6000,0100	US		ALWAYS	AUTO	-
Overlay Bit Position	6000,0102	US		ALWAYS	AUTO	-
ROI Area	6000,1301	IS		ANAPCV	AUTO	-
ROI Mean	6000,1302	DS		ANAPCV	AUTO	-
ROI Standard Deviation	6000,1303	DS		ANAPCV	AUTO	-
Overlay Label	6000,1500	LO		ANAPCV	AUTO	-
Overlay Data	6000,3000	O W/ OB		ANAP	AUTO	-

**Table 17: Modality LUT Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rescale Intercept	0028,1052	DS		ANAP	AUTO	-
Rescale Slope	0028,1053	DS		ANAP	AUTO	-
Rescale Type	0028,1054	LO		ANAP	AUTO	-
Modality LUT Sequence	0028,3000	SQ		ANAP	AUTO	-
>LUT Descriptor	0028,3002	US /SS		ANAP	AUTO	-
>LUT Explanation	0028,3003	LO		ANAP	AUTO	-
>Modality LUT Type	0028,3004	LO		ANAP	AUTO	-
>LUT Data	0028,3006	US /O W		ANAP	AUTO	-

**Table 18: VOI LUT Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Window Center	0028,1050	DS		ALWAYS	AUTO	-
Window Width	0028,1051	DS		ANAP	AUTO	-
Window Center & Width Explanation	0028,1055	LO		ANAPCV	AUTO	-
VOI LUT Sequence	0028,3010	SQ		ANAPCV	AUTO	-

**Table 19: SOP Common Module**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS		ANAP	AUTO, COPY	-
Instance Creation Date	0008,0012	DA		ALWAYS	AUTO	-
Instance Creation Time	0008,0013	TM		ALWAYS	AUTO	-
Instance Creator UID	0008,0014	UI		ANAPCV	AUTO	-
SOP Class UID	0008,0016	UI		ALWAYS	COPY	-
SOP Instance UID	0008,0018	UI		ALWAYS	AUTO	-
Timezone Offset From UTC	0008,0201	SH		ANAPCV	COPY	-
Contributing Equipment Sequence	0018,A001	SQ		ANAP	AUTO	-
>Manufacturer	0008,0070	LO	Philips	ANAP	FIXED	PHILIPS.
>Institution Address	0008,0081	ST	IntelliSpace Portal	ANAP	FIXED	IntelliSpace Portal.
>Station Name	0008,1010	SH	IntelliSpace Portal	ANAP	CONFIG	IntelliSpace Portal.
>Institutional Department Name	0008,1040	LO	IntelliSpace Portal	ANAP	FIXED	IntelliSpace Portal.
>Software Version(s)	0018,1020	LO	4.0	ANAP	FIXED	4.0
>Device Serial Number	0018,1000	LO	IntelliSpace Portal	ANAP	FIXED	IntelliSpace Portal.
>Institution Name	0008,0080	LO	IntelliSpace Portal	ANAP	FIXED	IntelliSpace Portal.
>Manufacturer's Model Name	0008,1090	LO	IntelliSpace Portal	ANAP	FIXED	IntelliSpace Portal.
>Purpose of Reference Code Sequence	0040,A170	SQ		ANAP	FIXED	-
>>Code Value	0008,0100	SH	109102	ANAP	FIXED	109102
>>Coding Scheme Designator	0008,0102	SH	DCM	ANAP	FIXED	DCM
>>Code Meaning	0008,0104	LO	Processing Equipment	ANAP	FIXED	Processing Equipment

**Table 20: Extended DICOM and private attributes for Secondary Capture Image Storage SOP Class Instances**

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Curve Dimensions	50xx,0005	US		ALWAYS	AUTO	-
Number of Points	50xx,0010	US		ALWAYS	AUTO	-
Type of Data	50xx,0020	CS		ALWAYS	AUTO	-
Data Value Representation	50xx,0103	US		ALWAYS	AUTO	-
Curve Data	50xx,3000	OB /O W		ALWAYS	AUTO	-
Curve Description	50xx,0022	LO		ANAPCV	AUTO	-
Axis Units	50xx,0030	SH		ANAPCV	AUTO	-
Axis Labels	50xx,0040	SH		ANAPCV	AUTO	-
Minimum Coordinate Value	50xx,0104	US		ANAPCV	AUTO	-
Maximum Coordinate Value	50xx,0105	US		ANAPCV	AUTO	-
Curve Range	50xx,0106	SH		ANAPCV	AUTO	-
Curve Data Descriptor	50xx,0110	US		ANAP	AUTO	-
Coordinate Start Value	50xx,0112	US		ANAP	AUTO	-
Coordinate Step Value	50xx,0114	US		ANAP	AUTO	-
Curve Label	50xx,2500	LO		ANAPCV	AUTO	-
Referenced Overlay Sequence	50xx,2600	SQ		ANAPCV	AUTO	-
>Referenced SOP Class UID	0008,1150	UI		ANAP	AUTO	-
>Referenced SOP Instance UID	0008,1155	UI		ANAP	AUTO	-
>Referenced Overlay Group	50xx,2610	US		ANAP	AUTO	-