



DICOM Conformance Statement
for
OPHTHALMIC DATA SYSTEM
IMAGEnet 6

Ver.1
April 4, 2017

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1. Foreword

1.1. Purpose

This DICOM Conformance Statement specifies the DICOM service classes, information objects and communication protocols that IMAGEnet 6 supports.

1.2. References

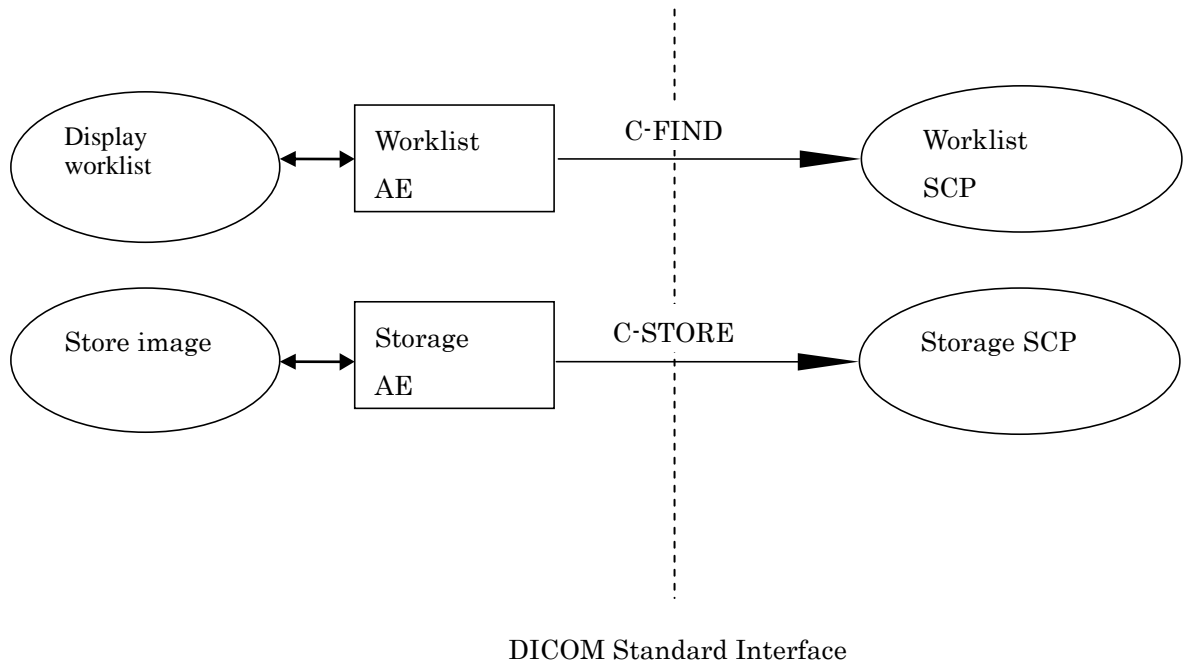
- ACR-NEMA DICOM(Digital Imaging and Communication in Medicine)

1.3. Abbreviations

- ACR American College of Radiology
- ASCII American Standard Code for Information Interchange
- AE Application Entity
- ANSI American National Standards Institute
- DICOM Digital Imaging and Communication in Medicine
- DIMSE DICOM Message Service Element
- DIMSE-C DICOM Message Service Element-Composite
- DIMSE-N DICOM Message Service Element-Normalized
- IE Information Entity
- IOD Information Object Definition
- ISO International Standards Organization
- NEMA National Electrical Manufacture Association
- OSI Open Systems Interconnection
- PDU Protocol Data Unit
- SCP Service Class Provider
- SCU Service Class User
- SOP Service Object-Pair
- TCP/IP Transmission Control Protocol/Internet Protocol
- UID Unique Identifier

2. Implementation Model

2.1. Application Data Flow Diagram



2.2. AE Function Definition

2.2.1. Specification of IMAGEnet 6

IMAGEnet 6 provides Standard Conformance to the following DICOM V3.0 (2015 edition) SOP Classes.

2.2.2. SOP Classes

SOP Class Name	SOP Class UID	SCP	SCU
Modality Worklist Information Model-FIND	1.2.840.10008.5.1.4.31	No	Yes
SC Image Storage	1.2.840.10008.5.1.4.1.1.7	No	Yes
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.1	No	Yes
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.4	No	Yes

2.2.3. Worklist AE

The Worklist AE receives a worklist with worklist search request (C-FIND) when an association request is sent to a transmission destination AE and then the association negotiation succeeds.

2.2.4. Storage AE

Storage AE corresponds to SC, OP and OPT modality. Image transmission starts with storage request (C-STORE) if an association request is sent to a transmission destination AE and the association negotiation succeeds.

3. AE Specifications

3.1. Worklist AE

As shown below, the Worklist AE provides standard conformance as an SCU of the DICOM V3.0 SOP class:

Table 1 SOP Class for Worklist AE

SOP Class Name	SOP Class UID
Modality Worklist Information Model-FIND	1.2.840.10008.5.1.4.31

3.1.1. Association Policy of Worklist AE

3.1.1.1. Overview of Worklist AE

The Worklist AE uses an application context name.

Table 2 DICOM Application Context for Worklist AE

DICOM V3.0 Application Context	1.2.840.10008.3.1.1.1
--------------------------------	-----------------------

3.1.1.2. Number of Associations

The Worklist AE can establish only one association simultaneously.

3.1.1.3. Asynchronous Nature

Since the Worklist AE allows only a single operation for an association, asynchronous operation is not supported.

3.1.1.4. Implementation Identifying Information

The Worklist AE specifies the following implementation identifying information.

Implementation class UID	1.2.276.0.7230010.3.0.3.6.0
Implementation version name	OFFIS_DCMTK_360

3.1.1.4.1. Proposed Presentation Context

The presentation context proposed by the Worklist AE is as follows:

Table 3 Proposed Presentation Context for Worklist AE

Name	Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
	UID		Name List	UID List		
Modality Worklist Information Model-FIND	1.2.840.10008.5.1.4.31		Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

3.1.1.4.1.1. SOP Specific Conformance

The Worklist AE determines that image transfer has succeeded when data communication succeeds even if association release fails.

The following explains the worklist request identifier for IMAGEnet.

The description of each item is shown below:

- Description : Worklist attribute name
- Tag : Attribute DICOM tag
- Matching : Search key for updating the worklist. "S" provides an attribute for a single inspection.
 "*" indicates a wildcard search.
- Return : "o" indicates a key that IMAGEnet responds to.
- Display : "o" indicates a key that IMAGEnet displays to indicate patients.

Table 4 SOP in Common

Description	Tag	Matching	Return	Display
Specific Character Set	(0008,0005)			

Table 5 Reserved Procedure Step

Description	Tag	Matching	Return	Display
Scheduled Procedure Step Sequence	(0040,0100)			
>Scheduled Procedure Step Start Date	(0040,0002)	S	○	○
>Modality	(0008,0060)	S	○	○
>Scheduled Procedure Step Description	(0040,0007)		○	○

Table 6 Requested Procedure

Description	Tag	Matching	Return	Display
Study Instance UID	(0020,000D)		○	○

Table 7 Image List Service

Description	Tag	Matching	Return	Display
Accession Number	(0008,0050)	S*	○	○

Table 8 Hospital Visiting Identification

Description	Tag	Matching	Return	Display
Patient Name	(0010,0010)	S*	○	○
Patient ID	(0010,0020)	S	○	○

Table 9 Patient Statistics

Description	Tag	Matching	Return	Display
Patient Birth Date	(0010,0030)		○	○
Patient Sex	(0010,0040)		○	○

3.1.1.4.2. Association Receiving Policy

The Worklist AE does not receive the association initiated by a remote AE.

3.2. Storage AE

As shown below, the storage AE provides standard conformance as an SCU of the DICOM V3.0 SOP class:

Table 10 SOP Class for Storage AE

SOP Class Name	SOP Class UID
SC Image Storage	1.2.840.10008.5.1.4.1.1.7
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.1
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.4

3.2.1. Storage AE Association Policy

3.2.1.1. Overview of Storage AE

The Storage AE uses an application context name.

Table 11 DICOM Application Context for Storage AE

DICOM V3.0 Application Context	1.2.840.10008.3.1.1.1
--------------------------------	-----------------------

Maximum PDU of the Storage AE can be specified.

3.2.1.2. Number of Associations

The Storage AE can establish only one association simultaneously.

3.2.1.3. Asynchronous Nature

Since the Storage AE allows only a single operation for an association, asynchronous operation is not supported.

3.2.1.4. Implementation Identifying Information

The Storage AE specifies the following Implementation Identifying Information:

Implementation class UID	1.2.276.0.7230010.3.0.3.6.0
Implementation version name	OFFIS_DCMTK_360

3.2.2. Starting Association in Real-World Activity

The Storage AE starts association when a request is made to transfer an image to a remote DICOM device.

3.2.2.1. Real-World Activity Storage AE

Image storage request is queued by IMAGEnet and storage is executed.

3.2.2.1.1. Proposed Presentation Context

The presentation contexts proposed by AE are as follows:

Table 12 Presentation Contexts Proposed to Storage AE

Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
SC Image Storage	1.2.840.10008.5.1.4.1.1.7	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.4	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCU	None

3.2.2.1.1.1. SOP Specific Conformance

The Storage AE determines that image transfer has succeeded when data communication succeeds even if association release fails.

3.2.2.1.2. Association Receiving Policy

The Storage AE does not receive the association initiated by a remote AE.

4. Communication Policy

4.1. Communication Protocol

Only TCP/IP is supported.

4.2. TCP/IP

An AE depends on the TCP/IP of the Windows system in which the AE is executed.

4.3. Support of Physical Network Medium

For AE, it is not important in which physical network medium the TCP/IP is executed. This is because it depends on the computer system where the physical network medium is executed.

5. Data Dictionary for a Private Attribute

A private attribute is not supported.

6. Standard Extended/Specialized/Private SOPs

Standard Extended/Specialized/Private SOPs are not supported.

7. Configuration

7.1. AE Title/Presentation Address Mapping

An AE title can be specified for an SCP and an SCU.

One port number and one SCP AE title can be specified for each SCP.

7.2. Parameters

Many parameters for general operation can be configured using a configuration user interface. The following shows the configurable parameters for DICOM communication:

Table 13 Parameters

	Parameter	Description
Worklist	SCP AE Title	AE Title for Worklist SCP
	SCP IP Address	IP Address for Worklist SCP
	SCP Port Number	Port number for Worklist SCP
	SCU AE Title	AE Title for Worklist SCU
Storage	SCP AE Title	AE Title for Storage SCP
	SCP IP Address	IP Address for Storage SCP
	SCP Port Number	Port number for Storage SCP
	SCU AE Title	AE Title for Storage SCU

8. Support of Character Sets

An AE supports the following character codes:

ISO-IR 6 (default)

9. Information Object Definition

The following shows IODs and modules defined in IMAGEnet.

9.1. IOD lists

9.1.1. SC Image IOD

Table 14 SC Image IOD

Information Entity	Module	Reference	Usage*1
Patient	Patient	9.2.1	M
Study	General Study	9.2.2	M
Series	General Series	9.2.3	M
Equipment	General Equipment	9.2.8	U
	SC Equipment	9.2.14	M
Image	General Image	9.2.10	M
	Image Pixel	9.2.11	M
	SC Image	9.2.15	M
	SOP Common	9.2.13	M

*1: M=Mandatory, C=Conditional, U=User option

9.1.2. Ophthalmic Photography 8 Bit Image IOD

Table 15 Ophthalmic Photography 8 Bit Image IOD

Information Entity	Module	Reference	Usage*1
Patient	Patient	9.2.1	M
Study	General Study	9.2.2	M
Series	General Series	9.2.3	M
	Ophthalmic Photography Series	9.2.4	M
Frame Of Reference	Synchronization	9.2.7	M
Equipment	General Equipment	9.2.8	M
Image	General Image	9.2.10	M
	Image Pixel	9.2.11	M
	Enhanced Contrast / Bolus	9.2.20	C
	Cine	9.2.16	C
	Multi Frame	9.2.17	M
	Ophthalmic Photography Image	9.2.18	M
	Ocular Region Imaged	9.2.19	M
	Ophthalmic Photography Acquisition Parameters	9.2.20	M
	Ophthalmic Photographic Parameters	9.2.21	M
	SOP Common	9.2.13	M

*1: M=Mandatory, C=Conditional, U=User option

9.1.3. Ophthalmic Tomography Image Storage

Table 16 Ophthalmic Tomography Image IOD

Information Entity	Module	Reference	Usage*1
Patient	Patient	9.2.1	M
Study	General Study	9.2.2	M
Series	General Series	9.2.3	M
	Ophthalmic Tomography Series	9.2.5	M
Frame of Reference	Frame of Reference	9.2.6	C
	Synchronization	9.2.7	C
Equipment	General Equipment	9.2.8	M
	Enhanced General Equipment	9.2.9	M
Image	Image Pixel	9.2.11	M
	Multi-frame Functional Groups	9.2.23	M
	Multi-frame Dimension	9.2.24	M
	Acquisition Context	9.2.12	M
	Ophthalmic Tomography Image	9.2.25	M
	Ophthalmic Tomography Acquisition Parameters	9.2.26	M
	Ophthalmic Tomography Parameters	9.2.27	M
	Ocular Region Imaged	9.2.19	M
	SOP Common	9.2.13	M

*1: M=Mandatory, C=Conditional, U=User option

9.2. Module Lists

9.2.1. Patient Module

Table 17 Patient

Attribute Name	Tag	Type	Attribute Description
Patient's Name	(0010,0010)	2	A value obtained from a modality worklist or a value of the IMAGEnet database.
Patient ID	(0010,0020)	2	A value obtained from a modality worklist or a value of the IMAGEnet database.
Patient's Birth Date	(0010,0030)	2	A value obtained from a modality worklist or a value of the IMAGEnet database.
Patient's Sex	(0010,0040)	2	A value obtained from a modality worklist or a value of the IMAGEnet database.

9.2.2. General Study Module

Table 18 General Study

Attribute Name	Tag	Type	Attribute Description
Study Instance UID	(0020,000D)	1	A value obtained from a modality worklist or a value of the IMAGEnet database.
Study Date	(0008,0020)	2	A value created by IMAGEnet.
Study Time	(0008,0030)	2	A value created by IMAGEnet.
Referring Physician's Name	(0008,0090)	2	No value
Study ID	(0020,0010)	2	No value
Accession Number	(0008,0050)	2	A value obtained from a modality worklist. No value if none exists.
Study Description	(0008,1030)	3	No value

9.2.3. General Series Module

Table 19 General Series

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	1	Setting value
Series Instance UID	(0020,000E)	1	A value created by IMAGEnet.
Series Number	(0020,0011)	2	A value created by IMAGEnet.
Image Laterality	(0020,0062)	2C	R, L
Series Description	(0008,103E)	3	Setting value

9.2.4. Ophthalmic Photography Series Module

Table 20 Ophthalmic Photography Series

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	1	OP(fixed)

9.2.5. Ophthalmic Tomography Series Module

Table 21 Ophthalmic Tomography Series

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	1	OPT(fixed)
Series Number	(0020,0011)	1	1(fixed)

9.2.6. Frame Of Reference Module

Table 22 Frame Of Reference

Attribute Name	Tag	Type	Attribute Description
Frame of Reference UID	(0020,0052)	1	A value created by IMAGEnet.
Position Reference Indicator	(0020,1040)	2	No value

9.2.7. Synchronization Module

Table 23 Synchronization

Attribute Name	Tag	Type	Attribute Description
Synchronization Frame of Reference UID	(0020,0200)	1	A value created by IMAGEnet.
Synchronization Trigger	(0018,106A)	1	NO TRIGGER(fixed)
Acquisition Time Synchronized	(0018,1800)	1	N(fixed)

9.2.8. General Equipment Module

Table 24 General Equipment

Attribute Name	Tag	Type	Attribute Description
Manufacturer	(0008,0070)	2	Topcon
Institution Name	(0008,0080)	3	No value
Station Name	(0008,1010)	3	No value
Manufacturer's Model Name	(0008,1090)	3	Model name
Software Versions	(0018,1020)	3	IMAGEnet6 version

9.2.9. Enhanced General Equipment

Table 25 Enhanced General Equipment

Attribute Name	Tag	Type	Attribute Description
Manufacturer	(0008,0070)	1	Topcon
Manufacturer's Model Name	(0008,1090)	1	Model name
Device Serial Number	(0018,1000)	1	IMAGEnet6 serial number
Software Versions	(0018,1020)	1	IMAGEnet6 version

9.2.10. General Image Module

Table 26 General Image

Attribute Name	Tag	Type	Attribute Description
Instance Number	(0020,0013)	2	A value created by IMAGEnet.
Content Date	(0008,0023)	2C	A value created by IMAGEnet.
Content Time	(0008,0033)	2C	A value created by IMAGEnet.

9.2.11. Image Pixel Module

Table 27 Image Pixel

Attribute Name	Tag	Type	Attribute Description
Sample per Pixel	(0028,0002)	1	A value created by IMAGEnet.
Photometric Interpretation	(0028,0004)	1	A value created by IMAGEnet.
Rows	(0028,0010)	1	A value created by IMAGEnet.
Columns	(0028,0011)	1	A value created by IMAGEnet.
Bits Allocated	(0028,0100)	1	A value created by IMAGEnet.
Bits Stored	(0028,0101)	1	A value created by IMAGEnet.
High Bit	(0028,0102)	1	A value created by IMAGEnet.
Pixel Representation	(0028,0103)	1	A value created by IMAGEnet.
Pixel Data	(7FE0,0010)	1	A value created by IMAGEnet.
Planar Configuration	(0028,0006)	1C	A value created by IMAGEnet.

9.2.12. Acquisition Context Module

Table 28 Acquisition Context

Attribute Name	Tag	Type	Attribute Description
Acquisition Context Sequence	(0040,0555)	2	No value

9.2.13. SOP Common Module

Table 29 SOP Common

Attribute Name	Tag	Type	Attribute Description
SOP Class UID	(0008,0016)	1	A value created by IMAGEnet.
SOP Instance UID	(0008,0018)	1	A value created by IMAGEnet.

9.2.14. SC Equipment Module

Table 30 SC Equipment

Attribute Name	Tag	Type	Attribute Description
Conversion Type	(0008,0064)	1	WSD

9.2.15. SC Image Module

Table 31 SC Image

Attribute Name	Tag	Type	Attribute Description

Please note: This section is left blank because no SC Image module tag is outputted.

9.2.16. Cine Module

Table 32 Cine

Attribute Name	Tag	Type	Attribute Description
Frame Time	(0018,1063)	1C	0(fixed)

9.2.17. Multi Frame Module

Table 33 Multi Frame

Attribute Name	Tag	Type	Attribute Description
Number of Frames	(0028,0008)	1	1(fixed)
Frame Increment Pointer	(0028,0009)	1	0018,1063(fixed)

9.2.18. Ophthalmic Photography Image Module

Table 34 Ophthalmic Photography Image

Attribute Name	Tag	Type	Attribute Description
Image Type	(0008,0008)	1	ORIGINAL¥0PRIMARY(fixed)
Lossy Image Compression	(0028,2110)	1	00(fixed)
Burned In Annotation	(0028,0301)	1	NO(fixed)
Pixel Spacing	(0028,0030)	1C	A value created by IMAGEnet.

9.2.19. Ocular Region Imaged Module

Table 35 Ocular Region Imaged

Attribute Name	Tag	Type	Attribute Description
Image Laterality	(0020,0062)	1	R, L or B

9.2.20. Ophthalmic Photography Acquisition Parameters Module

Table 36 Ophthalmic Photography Acquisition Parameters

Attribute Name	Tag	Type	Attribute Description
Patient Eye Movement Commanded	(0022,0005)	2	No value
Refractive State Sequence	(0022,001B)	2	—
Emmetropic Magnification	(0022,000A)	2	A value created by IMAGEnet.
Intra Ocular Pressure	(0022,000B)	2	No value
Horizontal Field of View	(0022,000C)	2	A value created by IMAGEnet.
Pupil Dilated	(0022,000D)	2	No value

9.2.21. Ophthalmic Photographic Parameters Module

Table 37 Ophthalmic Photographic Parameters

Attribute Name	Tag	Type	Attribute Description
Acquisition Device Type Code Sequence	(0022,0015)	1	—
> Code Value	(0008,0100)	2	A value created by IMAGEnet.
> Coding Scheme Designator	(0008,0102)	2	A value created by IMAGEnet.
> Code Meaning	(0008,0104)	2	A value created by IMAGEnet.
Detector Type	(0022,0016)	2	No value
Light Path Filter Type Stack Code Sequence	(0022,0017)	2	—
Image Path Filter Type Stack Code Sequence	(0022,0018)	2	—
Lenses Code Sequence	(0022,0019)	2	—

9.2.22. Enhanced Contrast / Bolus

Table 38 Enhanced Contrast / Bolus

Attribute Name	Tag	Type	Attribute Description

Please note: This section is left blank because no Enhanced Contrast / Bolus tag is outputted.

9.2.23. Multi-frame Functional Groups

Table 39 Multi-frame Functional Groups

Attribute Name	Tag	Type	Attribute Description
Shared Functional Groups Sequence	(5200,9229)		—
>C.8.17.10 Ophthalmic Tomography Functional Group Macros			
>C.7.6.16.2.1 Pixel Measures Macro			
>Pixel Measures Sequence	(0028,9110)		—
>>Pixel Spacing	(0028,0030)		A pixel spacing managed by the modality 0Y0 in case of no value
>Slice Thickness	(0018,0050)		A slice thickness managed by the modality 0Y0 in case of no value
>C.7.6.16.2.4 Plane Orientation (Patient) Macro			
>Plane Orientation Sequence	(0020,9116)		—
>>Image Orientation (Patient)	(0020,0037)		1.000000Y0.000000Y0.000000Y0.000000Y1.000000Y0.000000 (fixed)
>C.7.6.16.2.5 Referenced Image Macro			
>Referenced Image Sequence	(0008,1140)		—
>>Referenced SOP Class UID	(0008,1150)		1.2.840.10008.5.1.4.1.1.77.1.5.1 (fixed)
>>Referenced SOP Instance UID	(0008,1155)		OP instance UID generated from the same data
>>Purpose of Reference Code Sequence	(0040,A170)		—
>>>Code Value	(0008,0100)		121311 (fixed)
>>>Coding Scheme Designator	(0008,0102)		DCM (fixed)
>>>Code Meaning	(0008,0104)		Localizer (fixed)
>C.7.6.16.2.6 Derivation Image Macro			
>Derivation Image Sequence	(0008,9124)		—
>C.7.6.16.2.8 Frame Anatomy Macro			
>Frame Anatomy Sequence	(0020,9071)		—
>>Frame Laterality	(0020,9072)		Measured eye managed by the modality
<i>>>General Anatomy Mandatory Macro</i>			
>>Anatomic Region Sequence	(0008,2218)		—
>>>Code Value	(0008,0100)		T-AA610 (fixed)
>>>Coding Scheme Designator	(0008,0102)		SRT (fixed)
>>>Code Meaning	(0008,0104)		Retina (fixed)
Per-frame Functional Groups Sequence	(5200,9230)		—
>C.8.17.10 Ophthalmic Tomography Functional Group Macros			
>C.7.6.16.2.2 Frame Content Macro			
>Frame Content Sequence	(0020,9111)		—
>>Frame Reference DateTime	(0018,9151)		No value
>>Frame Acquisition DateTime	(0018,9074)		No value
>>Frame Acquisition Duration	(0018,9220)		No value
>>Dimension Index Values	(0020,9157)		1, Frame number
>>Stack ID	(0020,9056)		1 (fixed)

In-Stack Position Number	(0020,9057)		Frame number
>C.7.6.16.2.3 Plane Position (Patient) Macro			
>Plane Position Sequence	(0020,9113)		—
>>Image Position (Patient)	(0020,0032)		No value
>>Purpose of Reference Code Sequence	(0040,A170)		—
>>>Code Value	(0008,0100)		121311 (fixed)
>>>Coding Scheme Designator	(0008,0102)		DCM (fixed)
>>>Code Meaning	(0008,0104)		Localizer (fixed)
>C.8.17.10.1 Ophthalmic Frame Location Macro			
>Ophthalmic Frame Location Sequence	(0022,0031)		—
>>Referenced SOP Class UID	(0008,1150)		1.2.840.10008.5.1.4.1.1.77.1.5.1 (fixed)
>>Referenced SOP Instance UID	(0008,1155)		OP instance UID generated from the same data
>>Reference Coordinates	(0022,0032)		The value is calculated with the position information of OCT scan image managed by the modality.
>>Ophthalmic Image Orientation	(0022,0039)		LINEAR (fixed)
Instance Number	(0020,0013)		1 (fixed)
Content Date	(0008,0023)		Capture date managed by the modality
Content Time	(0008,0033)		Capture time managed by the modality
Number of Frames	(0028,0008)		Number of image managed by the modality
Concatenation Frame Offset Number	(0020,9228)		0 (fixed)
Representative Frame Number	(0028,6010)		1 (fixed)
Concatenation UID	(0020,9161)		A valued generated by the modality
SOP Instance UID of Concatenation Source	(0020,0242)		A valued generated by the modality
In-concatenation Number	(0020,9162)		1 (fixed)
In-concatenation Total Number	(0020,9163)		1 (fixed)

9.2.24. Multi-frame Dimension

Table 40 Multi-frame Dimension

Attribute Name	Tag	Type	Attribute Description
Dimension Organization Sequence	(0020,9221)		—
>Dimension Organization UID	(0020,9164)		A valued generated by the modality
Dimension Organization Type	(0020,9311)		3D (fixed)
Dimension Index Sequence	(0020,9222)		—
>Dimension Index Pointer	(0020,9165)		(0020,9056) (fixed)
>Functional Group Pointer	(0020,9167)		(0020,9111) (fixed)
>Dimension Index Pointer	(0020,9165)		(0020,9057) (fixed)
>Functional Group Pointer	(0020,9167)		(0020,9111) (fixed)

9.2.25. Ophthalmic Tomography Image

Table 41 Ophthalmic Tomography Image

Attribute Name	Tag	Type	Attribute Description
Image Type	(0008,0008)		ORIGINAL Y PRIMARY
Samples per Pixel	(0028,0002)		1 (fixed)
Acquisition DateTime	(0008,002A)		Capture date and time managed by the modality
Acquisition Number	(0020,0012)		1 (fixed)
Photometric Interpretation	(0028,0004)		MONOCHROME2 (fixed)
Pixel Representation	(0028,0103)		0 (fixed)
Bits Allocated	(0028,0100)		8 (fixed)
Bits Stored	(0028,0101)		8 (fixed)
High Bit	(0028,0102)		7 (fixed)
Presentation LUT Shape	(2050,0020)		IDENTITY (fixed)
Lossy Image Compression	(0028,2110)		00 = Lossy Image Compression has never been performed 01 = Lossy Image Compression has been performed
Burned In Annotation	(0028,0301)		NO (fixed)
Concatenation Frame Offset Number	(0020,9228)		0 (fixed)
In-concatenation Number	(0020,9162)		1 (fixed)
In-concatenation Total Number	(0020,9163)		1 (fixed)

9.2.26. Ophthalmic Tomography Acquisition Parameters

Table 42 Ophthalmic Tomography Acquisition Parameters

Attribute Name	Tag	Type	Attribute Description
Axial Length of the Eye	(0022,0030)		No value
Horizontal Field of View	(0022,000C)		No value
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Refractive State Sequence	(0022,001B)		—
Emmetropic Magnification	(0022,000A)		No value
Intra Ocular Pressure	(0022,000B)		No value
Pupil Dilated	(0022,000D)		No value

9.2.27. Ophthalmic Tomography Parameters

Table 43 Ophthalmic Tomography Parameters

Attribute Name	Tag	Type	Attribute Description
Acquisition Device Type Code Sequence	(0022,0015)		—
>Code Value	(0008,0100)		A-00FBE(fixed)
>Anatomic Region Sequence	(0008,0102)		SRT(fixed)
>Code Meaning	(0008,0104)		Optical Coherence Tomography Scanner(fixed)
Light Path Filter Type Stack Code Sequence	(0022,0017)		—
Detector Type	(0018,7004)		CCD(fixed)
Illumination Wave Length	(0022,0055)		840 or 1050(per device)
Illumination Power	(0022,0056)		650 or 1050(per device)
Illumination Bandwidth	(0022,0057)		50 or 60(per device)
Depth Spatial Resolution	(0022,0035)		6 or 8(per device)
Maximum Depth Distortion	(0022,0036)		0.5(fixed)
Along-scan Spatial Resolution	(0022,0037)		20(fixed)
Maximum Along-scan Distortion	(0022,0038)		0.5(fixed)
Across-scan Spatial Resolution	(0022,0048)		20(fixed)
Maximum Across-scan Distortion	(0022,0049)		0.5(fixed)

End of report