

DICOM Conformance Statement

Application Annex:

Multi-Modality Applications on Advanced Visualization Workspace V16



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1. Overview

For information about Chapter 1 till Chapter 8, please refer 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 – General

2. Table of Contents

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3. Introduction

This DICOM Conformance Statement annex is applicable to the Multi-Modality Applications on Advanced Visualization Workspace V16 hosting platform, later referred to as Multi-Modality Applications. In general, the Multi-Modality Applications are used for viewing and analyzing the images from multiple modalities.

The following analysis packages are offered by (licensing might be applicable):

- Multi-Modality Viewer*
- Multi-Modality Tumor Tracking
- Multi-Modality Advanced Vessel Analysis (AVA)
- 3D modelling
- AV Viewer
- AV Vascular
- ADAS 3D**

Note*: Basic 2D Ultrasound viewing is supported in Multi-Modality Viewer only.

** ADAS 3D is a 3rd party application hosted in AVW platform. Refer to the respective vendor DCS for conformance.

3.1. Revision History

Table 3-1: Revision History

Revision	Date	Product Version(s)	Change
01	01-Dec-2025	V16	Initial release of Advanced Visualization Workspace V16
02	29-Jun-2026	V16	Updated for release candidate

3.2. Audience

This document is intended for the audience listed below. It is assumed that the reader has a working knowledge of the DICOM Standard.

The document structure was designed for easier access to relevant information for different user groups:

- Clinical Users, who want to get an overview of the implemented interoperability features of the system can see Section 4 Implementation Model.
- Personnel involved in Sales can use the information in Section 1 to assess the compatibility between different systems involved in a sales situation.
- System Integrators can use information in Section 6 during system installation and also information from Section 5 Service and Interoperability Description for details regarding the implemented services.
- Field Service Engineers can use the details from Section 5 Service and Interoperability Description and from Section 7 Network and Media Communication Details for troubleshooting.
- Hospital IT staff focusing on security can use the details provided in Section 8 Security regarding implemented Security features.

- Research Personnel may be interested in using information provided in Appendix A Information Object Definitions (IODs) or Appendix B Structured Report Content Encoding to get detailed imaging and measurement information.

3.3. Remarks

The scope of this DICOM Conformance Statement is to facilitate integration between Advanced Visualization Workspace V16 and other DICOM products. The Conformance Statement should be read and understood in conjunction with the DICOM Standard. DICOM by itself does not guarantee interoperability.

- The Conformance Statement does, however, facilitate a first-level comparison for interoperability between different applications supporting compatible DICOM functionality.
- This Conformance Statement should not replace validation with other DICOM equipment to ensure proper exchange of intended information. In fact, it is the user's responsibility to perform the following validation activities:
 - The comparison of Conformance Statements from Advanced Visualization Workspace V16 and other DICOM conformant equipment is the first step towards assessing interconnectivity and interoperability between those systems.
 - Test procedures should be defined and executed to validate the required level of interoperability with specific DICOM conformant equipment, as established by the healthcare facility.

3.4. Terms and Definitions

The following list includes DICOM Terms, that are used throughout this Conformance Statement:

Table 3-2: Terms and Definitions

Abstract Syntax	The information agreed to be exchanged between applications, generally equivalent to a Service/Object Pair (SOP) Class. Examples: Verification SOP Class, Modality Worklist Information Model Find SOP Class, Computed Radiography Image Storage SOP Class.
Application Entity (AE)	A representation of the external behavior of an application process in terms of DICOM Network Services, Web Services and/or media exchange capabilities implemented in one or more roles. A single device may have multiple Application Entities.
Application Entity Title (AET)	The externally known name of an Application Entity, used to identify a DICOM application to other DICOM applications on the network.
Application Context	The specification of the type of communication used between Application Entities. Example: DICOM network protocol.
Association	A network communication channel set up between Application Entities.
Attribute	A unit of information in an Information Object Definition; a Data Element identified by a tag. The information may be a complex data structure (Sequence), itself composed of lower-level data elements. Examples: Patient ID (0010,0020), Accession Number (0008,0050), Photometric Interpretation (0028,0004), Procedure Code Sequence (0008,1032).
Data Element	A unit of information as defined by a single entry in the data dictionary. An encoded Information Object Definition (IOD) Attribute that is composed of, at a minimum, three fields: a Data Element Tag, a Value Length, and a Value Field.

	For some specific Transfer Syntaxes, a Data Element also contains a VR Field where the Value Representation of that Data Element is specified explicitly
Information Object Definition (IOD)	The specified set of Attributes that comprise a type of data object; does not represent a specific instance of the data object, but rather a class of similar data objects that have the same properties. Examples: MR Image IOD, CT Image IOD, Print Job IOD. The Attributes within an IOD may be specified as Mandatory (Type 1), Required but possibly unknown (Type 2), or Optional (Type 3), and there may be conditions associated with the use of an Attribute (Types 1C and 2C).
Media Application Profile	The specification of DICOM information objects and encoding exchanged on removable media (e.g., CDs).
Module	A set of Attributes within an Information Object Definition that are logically related to each other. Example: Patient Module includes Patient's Name, Patient ID, Patient's Birth Date, and Patient's Sex.
Negotiation	First phase of Association establishment that allows Application Entities to agree on the types of data to be exchanged and how that data will be encoded.
Origin Server	Refers to the program that can originate authoritative responses to HTTP requests for a given Target Resource. The term "server" refers to any implementation that receives a web service request message from a user agent.
Presentation Context	The set of DICOM Network Services used over an Association, as negotiated between Application Entities; includes Abstract Syntaxes and Transfer Syntaxes.
Private SOP Class	A SOP Class that is not defined in the DICOM Standard but is published in an implementation's Conformance Statement.
Protocol Data Unit (PDU)	A packet (piece) of a DICOM message sent across the network. Devices must specify the maximum size packet they can receive for DICOM messages.
Security Profile	A set of mechanisms, such as encryption, user authentication, or digital signatures, used by an Application Entity to ensure confidentiality, integrity, and/or availability of exchanged DICOM data.
Service Class Provider (SCP)	Role of an Application Entity that provides a DICOM network service; typically, a server that performs operations requested by another Application Entity (Service Class User). Examples: Picture Archiving and Communication System (image storage SCP, and image query/retrieve SCP), Radiology Information System (modality worklist SCP).
Service Class User (SCU)	Role of an Application Entity that uses a DICOM Network Service; typically, a client. Examples: imaging modality (image storage SCU, and modality worklist SCU), imaging workstation (image query/retrieve SCU).
Service/Object Pair Class (SOP Class)	The specification of the network or media transfer (service) of a particular type of data (object); the fundamental unit of a DICOM interoperability specification. Examples: Ultrasound Image Storage Service, Basic Grayscale Print Management.
Service/Object Pair Instance (SOP Instance)	An information object; a specific occurrence of information exchanged in a SOP Class. E.g., a specific X-ray image.
Specialized SOP Class	A SOP Class that is derived from the Standard that is specialized by additional type 1, 1C, 2, 2C, or 3 Attributes, by enumeration of specific permitted Values for

	Attributes, or by enumeration of specific permitted Templates. The additional Attributes may either be drawn from the Data Dictionary in PS3.6 or may be Private Attributes.
Standard SOP Class	A SOP Class defined in the Standard, and that is implemented and used without any modifications.
Standard Extended SOP Class	A SOP Class that is defined in the standard, and that is extended by additional type 3 Attributes. The additional Attributes may either be drawn from the DICOM Data Dictionary in PS3.6 or may be Private Attributes.
Tag	A 32-bit identifier for a Data Element, represented as a pair of four-digit hexadecimal numbers, the "group" and the "element". If the "group" number is odd, the tag is for a private (manufacturer-specific) data element. Examples: (0010,0020) [Patient ID], (07FE,0010) [Pixel Data], (0019,0210) [private data element].
Transfer Syntax	The encoding used for exchange of DICOM information objects and messages. Examples: JPEG compressed (images), Little Endian Explicit Value Representation.
TLS-Secured Port	TCP port on which an implementation accepts TLS connections to exchange DICOM information.
Unique Identifier (UID)	A globally unique "dotted decimal" string that identifies a specific object or a class of objects; an ISO-8824 Object Identifier. Examples: Study Instance UID, SOP Class UID, SOP Instance UID.
User Agent	A client in a network protocol used in communications within a client-server distributed computing system. In particular, the Hypertext Transfer Protocol (HTTP) identifies the client software originating the request, using a user-agent header, even when the client is not operated by a user.
Value Representation (VR)	The format type of an individual DICOM data element, such as text, an integer, a person's name, or a code. DICOM information objects can be transmitted with either explicit identification of the type of each data element (Explicit VR), or without explicit identification (Implicit VR) ; with Implicit VR, the receiving application must use a DICOM data dictionary to look up the format of each data element.

The following list includes product specific definitions used throughout this Conformance Statement

AVW	Advanced Visualization Workspace
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3.5. Abbreviations

Abbreviations that are used in this DICOM Conformance Statement are listed here.

Table 3-3: Abbreviations

AE	Application Entity
AET	Application Entity Title
CAD	Computer Aided Detection

CDA	Clinical Document Architecture
CID	Context Identifier
DCS	DICOM Conformance Statement
DHCP	Dynamic Host Configuration Protocol
DICOM	Digital Imaging and Communications in Medicine
ELE	Explicit VR Little Endian
FSC	File-Set Creator
FSU	File-Set Updater
FSR	File-Set Reader
IANA	Internet Assigned Numbers Authority
IHE	Integrating the Healthcare Enterprise
ILE	Implicit VR Little Endian
IOD	Information Object Definition
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
ISO	International Organization for Standardization
MPPS	Modality Performed Procedure Step
MWL	Modality Worklist
NEMA	National Electrical Manufacturers Association
NTP	Network Time Protocol
OID	Object Identifier
OS	Origin Server
PDU	Protocol Data Unit
PHI	Protected Health Information
PPS	Performed Procedure Step
QIDO-RS	Query based on ID for DICOM Objects by RESTful Services
RTV	Real Time Video
SCP	Service Class Provider
SCU	Service Class User
SDP	Service Description Protocol
SOP	Service-Object Pair

SPS	Scheduled Procedure Step
SR	Structured Reporting
STOW-RS	Store Over the Web by RESTful Services
TCP/IP	Transmission Control Protocol/Internet Protocol
TID	Template Identifier
UA	User Agent
UI	User Interface
UID	Unique Identifier
UL	Upper Layer
UPS	Unified Procedure Step
UPS-RS	Unified Procedure Step by RESTful Services
VR	Value Representation
WADO-RS	Web Access to DICOM Objects by RESTful Services
WADO-URI	Web Access to DICOM Objects by URI

3.6. References

National Electrical Manufacturers Association (NEMA), Rosslyn, VA USA. *PS3 / ISO 12052 Digital Imaging and Communications in Medicine (DICOM) Standard*. <http://www.dicomstandard.org>.

4. Implementation Model

For information about this Section, please refer to 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 - General

5. Service and Interoperability Description

For information about this Section, please refer to 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 - General

6. Configuration

For information about this Section, please refer to 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 - General

7. Network and Media Communication Details

For information about this Section, please refer to 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 - General

8. Security

For information about this Section, please refer to 1937698 DICOM Conformance Statement - Advanced Visualization Workspace V16 - General

Annexes of Multi-Modality applications

A Information Object Definitions (IODs)

This section provides the detailed content for all the SOP Instances natively created by Multi-Modality applications.

Throughout the tables listed in Annex A the following codes are used for the “Source” and “Presence” columns.

In the “Source” column, the following Values can be used:

- **FIXED:** The Value is pre-defined and cannot be modified.
- **GENERATED:** The Value is generated by the system.
- **CONFIGURATION:** The Value is copied from the system configuration.
- **MWL:** The Value is copied from a Modality Worklist entry.
- **QUERY:** The Value is determined by performing a query of any of the supported Query/Retrieve Services.
- **USER:** The Value is entered by the user.
- **SCANNED:** The Value is read from a barcode scanner or similar device.
- **EMPTY:** The Attribute is sent with a zero-length Value.
- **SRC_INSTANCE:** The Value is copied from previously created/received SOP Instances.

The “Presence” columns reflect the usage of the Module, Functional Group Macro, Attributes, or Value in the Implementation and is not necessarily the same as defined in the DICOM Standard. For the “Presence” column the following Values can be used:

- **ALWAYS:** the module, functional group macro, Attributes or Value is always present.
- **CONDITIONAL:** the presence of the module, functional group macro, Attributes or Value is dependent on a condition. The condition must be listed in the "Conditions" column.
- **SRC_COPY:** The presence of the Attributes and Values depends on the availability of these in the source instances, which are used for copying this information.
- **EMPTY:** The Attribute is present but without a Value (zero length).

A.1 - Information shared across multiple IODs

A.1.1 - Common Modules

Common Table Patient Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Referenced Patient Sequence	(0008,1120)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Name	(0010,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient ID	(0010,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Birth Date	(0010,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Birth Time	(0010,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Sex	(0010,0040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Other Patient IDs	(0010,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Other Patient Names	(0010,1001)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Ethnic Group	(0010,2160)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient Comments	(0010,4000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Issuer of Patient ID	(0010,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient Identify Removed	(0012,0062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-Identification Method	(0012,0063)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table General Study Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Study Date	(0008,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Study Time	(0008,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Accession Number	(0008,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referring Physician's Name	(0008,0090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referring Physician Identification Sequence	(0008,0096)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Study Description	(0008,1030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Procedure Code Sequence	(0008,1032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Version	(0008,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Mapping Resource	(0008,0105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Version	(0008,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Local Version	(0008,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Flag	(0008,010B)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Creator UID	(0008,010D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Identifier	(0008,010F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Physician(s) of Record	(0008,1048)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Physician(s) of Record Identification Sequence	(0008,1049)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Name of Physician(s) Reading Study	(0008,1060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Physician(s) Reading Study Identification Sequence	(0008,1062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referenced Study Sequence	(0008,1110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Study Instance UID	(0020,000D)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Study ID	(0020,0010)	GENERATED SRC_INSTANCE	ALWAYS	CONDITIONAL			-
Requesting Service	(0032,1033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table Patient Study Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Admitting Diagnoses Description	(0008,1080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Admitting Diagnoses Code Sequence	(0008,1084)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Age	(0010,1010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Size	(0010,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient's Weight	(0010,1030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Medical Alerts	(0010,2000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Allergies	(0010,2110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Occupation	(0010,2180)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Additional Patient History	(0010,21B0)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pregnancy Status	(0010,21C0)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient State	(0038,0500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table General Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Series Date	(0008,0021)	GENERATED	CONDITIONAL	ALWAYS			-
Series Time	(0008,0031)	GENERATED	CONDITIONAL	ALWAYS			-
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Description	(0008,103E)	SRC_INSTANCE USER	CONDITIONAL	ALWAYS			-
Performing Physician's Name	(0008,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Operators' Name	(0008,1070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Body Part Examined	(0018,0015)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Protocol Name	(0018,1030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient Position	(0018,5100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			-
Laterality	(0020,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Smallest Pixel Value in Series	(0028,0108)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Largest Pixel Value in Series	(0028,0109)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Request Attributes Sequence	(0040,0275)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Scheduled Procedure Step Description	(0040,0007)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Scheduled Protocol Code Sequence	(0040,0008)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Scheduled Procedure Step ID	(0040,0009)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Requested Procedure ID	(0040,1001)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Performed Procedure Step Start Date	(0040,0244)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Start Time	(0040,0245)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step ID	(0040,0253)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Description	(0040,0254)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Protocol Code Sequence	(0040,0260)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Version	(0008,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Mapping Resource	(0008,0105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Version	(0008,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Local Version	(0008,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Flag	(0008,010B)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Creator UID	(0008,010D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Identifier	(0008,010F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Comments on the Performed Procedure Step	(0040,0280)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table General Equipment Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Manufacturer	(0008,0070)	FIXED	ALWAYS	ALWAYS	Philips		-
Institution Name	(0008,0080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Institution Address	(0008,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Station Name	(0008,1010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Institutional Department Name	(0008,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			System serial number.
Software Versions	(0018,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Spatial Resolution	(0018,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Date of Last Calibration	(0018,1200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Time of Last Calibration	(0018,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Padding Value	(0028,0120)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table SC Equipment Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Conversion Type	(0008,0064)	FIXED	ALWAYS	ALWAYS	WSD		-
Secondary Capture Device ID	(0018,1010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Secondary Capture Device Manufacturer	(0018,1016)	FIXED	ALWAYS	ALWAYS	Philips		-
Secondary Capture Device Manufacturer's Model Name	(0018,1018)	FIXED	ALWAYS	ALWAYS	AVW		-
Secondary Capture Device Software Versions	(0018,1019)	FIXED	ALWAYS	ALWAYS	16.x		-

Common Table General Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments

Acquisition Date	(0008,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition DateTime	(0008,002A)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Time	(0008,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Duration	(0018,9073)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Number	(0020,0012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Images in Acquisition	(0020,1002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table General Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			-
Content Date	(0008,0023)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Content Time	(0008,0033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Instance Number	(0020,0013)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Patient Orientation	(0020,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Laterality	(0020,0062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Comments	(0020,4000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Quality Control Image	(0028,0300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Burned In Annotation	(0028,0301)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Lossy Image Compression	(0028,2110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Lossy Image Compression Ratio	(0028,2112)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Icon Image Sequence	(0088,0200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Planar Configuration	(0028,0006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Rows	(0028,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Columns	(0028,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Smallest Image Pixel Value	(0028,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Largest Image Pixel Value	(0028,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Red Palette Color Lookup Table Descriptor	(0028,1101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Green Palette Color Lookup Table Descriptor	(0028,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Blue Palette Color Lookup Table Descriptor	(0028,1103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Red Palette Color Lookup Table Data	(0028,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Green Palette Color Lookup Table Data	(0028,1202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Blue Palette Color Lookup Table Data	(0028,1203)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Pixel Data	(7FE0,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Presentation LUT Shape	(2050,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table General Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Referenced Image Sequence	(0008,1140)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Purpose of Reference Code Sequence	(0040,A170)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Context UID	(0008,0117)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Derivation Description	(0008,2111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Source Image Sequence	(0008,2112)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Spatial Locations Preserved	(0028,135A)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
> Purpose of Reference Code Sequence	(0040,A170)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Context UID	(0008,0117)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Derivation Code Sequence	(0008,9215)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Context UID	(0008,0117)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table Contrast/Bolus Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Contrast/Bolus Agent	(0018,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Agent Sequence	(0018,0012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Administration Route Sequence	(0018,0014)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Additional Drug Sequence	(0018,002A)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Route	(0018,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Volume	(0018,1041)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Start Time	(0018,1042)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Stop Time	(0018,1043)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Total Dose	(0018,1044)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast Flow Rate	(0018,1046)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast Flow Duration	(0018,1047)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Ingredient	(0018,1048)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contrast/Bolus Ingredient Concentration	(0018,1049)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Common Table SOP Common Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Specific Character Set	(0008,0005)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Instance Creation Date	(0008,0012)	GENERATED	ALWAYS	ALWAYS			-
Instance Creation Time	(0008,0013)	GENERATED	ALWAYS	ALWAYS			-
Instance Creator UID	(0008,0014)	GENERATED	CONDITIONAL	ALWAYS			-

SOP Class UID	(0008,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
SOP Instance UID	(0008,0018)	GENERATED	ALWAYS	ALWAYS			-
Timezone Offset From UTC	(0008,0201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Contributing Equipment Sequence	(0018,A001)	GENERATED	CONDITIONAL	ALWAYS			-
>Manufacturer	(0008,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Institution Name	(0008,0080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Institution Address	(0008,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Station Name	(0008,1010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Institutional Department Name	(0008,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Software Versions	(0018,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Contribution DateTime	(0018,A002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Contribution Description	(0018,A003)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Purpose of Reference Code Sequence	(0040,A170)	FIXED	ALWAYS	ALWAYS			-
>>Code Value	(0008,0100)	FIXED	ALWAYS	ALWAYS	109102		-
>>Coding Scheme Designator	(0008,0102)	FIXED	ALWAYS	ALWAYS	DCM		-
>>Code Meaning	(0008,0102)	FIXED	ALWAYS	ALWAYS	Processing Equipment		-
Instance Number	(0020,0013)	GENERATED	CONDITIONAL	ALWAYS			-

A.1.2 - Common Functional Group Macros - N/A

A.1.3 - Common Private Modules - N/A

A.1.4 - Coded Values - N/A

A.2 - Computed Radiography Image Storage SOP Class

Table IOD of Created Computed Radiography Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	CR Series	ALWAYS		CR Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	Modality LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Modality LUT Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	CR Image	ALWAYS		CR Image Module
	SOP Common	ALWAYS		SOP Common Module

A.2.1 - IOD Specific Modules

Table CR Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Body Part Examined	(0018,0015)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
View Position	(0018,5101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	ALWAYS	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table Modality LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rescale Intercept	(0028,1052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Slope	(0028,1053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Rescale Type	(0028,1054)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table CR Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Imager Pixel Spacing	(0018,1164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Spacing	(0028,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

[A.2.2 - Functional Group Macros - N/A](#)

[A.2.3 - Private Modules - N/A](#)

[A.2.4 - Coded Values - N/A](#)

A.3 - Digital X-Ray Image Storage SOP Class - For Presentation

Table IOD of Created Digital X-Ray Image Storage SOP Class Instances For Presentation

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module

	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	DX Series	ALWAYS		DX Series Module
Frame of Reference	Frame of Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	DX Anatomy Imaged	ALWAYS		DX Anatomy Imaged Module
	DX Image	ALWAYS		DX Image Module
	DX Detector	ALWAYS		DX Detector Module
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	Acquisition Context	ALWAYS		Acquisition Context Module
	SOP Common	ALWAYS		SOP Common Module

[A.3.1 - IOD Specific Modules](#)

Table DX Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Presentation Intent Type	(0008,0068)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	ALWAYS	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table DX Anatomy Imaged Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Anatomic Region Sequence	(0008,2218)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Laterality	(0020,0062)	GENERATED	ALWAYS	ALWAYS			-

Table DX Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			-
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	CONDITIONAL	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			-
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS			-
Pixel Intensity Relationship	(0028,1040)	GENERATED	ALWAYS	ALWAYS			-
Pixel Intensity Relationship Sign	(0028,1041)	GENERATED	ALWAYS	ALWAYS			-
Window Center	(0028,1050)	GENERATED	CONDITIONAL	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-
Rescale Intercept	(0028,1052)	GENERATED	ALWAYS	ALWAYS			-
Rescale Slope	(0028,1053)	GENERATED	ALWAYS	ALWAYS			-
Rescale Type	(0028,1054)	GENERATED	ALWAYS	ALWAYS			-
Lossy Image Compression	(0028,2110)	GENERATED	ALWAYS	ALWAYS			-
Lossy Image Compression Ratio	(0028,2112)	GENERATED	CONDITIONAL	ALWAYS			-
Presentation LUT Shape	(2050,0020)	GENERATED	ALWAYS	ALWAYS			-

Table DX Detector Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Imager Pixel Spacing	(0018,1164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-
Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-
Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Data	(60xx,3000)	GENERATED	ALWAYS	ALWAYS			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Center & Width Explanation	(0028,1055)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
VOI LUT Sequence	(0028,3010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Acquisition Context Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Acquisition Context Sequence	(0040,0555)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

[A.3.2 - Functional Group Macros - N/A](#)

[A.3.3 - Private Modules - N/A](#)

[A.3.4 - Coded Values - N/A](#)

A.4 - Digital X-Ray Image Storage SOP Class - For Processing

Table IOD of Created Digital X-Ray Image Storage SOP Class Instances For Processing

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	DX Series	ALWAYS		DX Series Module
Frame of Reference	Frame of Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	DX Anatomy Imaged	ALWAYS		DX Anatomy Imaged Module
	DX Image	ALWAYS		DX Image Module

	DX Detector	ALWAYS		DX Detector Module
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	Acquisition Context	ALWAYS		Acquisition Context Module
	SOP Common	ALWAYS		SOP Common Module

A.4.1 - IOD Specific Modules

Table DX Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Presentation Intent Type	(0008,0068)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	ALWAYS	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table DX Anatomy Imaged Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Anatomic Region Sequence	(0008,2218)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Laterality	(0020,0062)	GENERATED	ALWAYS	ALWAYS			-

Table DX Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			-
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	CONDITIONAL	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-

Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			-
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS			-
Pixel Intensity Relationship	(0028,1040)	GENERATED	ALWAYS	ALWAYS			-
Pixel Intensity Relationship Sign	(0028,1041)	GENERATED	ALWAYS	ALWAYS			-
Window Center	(0028,1050)	GENERATED	CONDITIONAL	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-
Rescale Intercept	(0028,1052)	GENERATED	ALWAYS	ALWAYS			-
Rescale Slope	(0028,1053)	GENERATED	ALWAYS	ALWAYS			-
Rescale Type	(0028,1054)	GENERATED	ALWAYS	ALWAYS			-
Lossy Image Compression	(0028,2110)	GENERATED	ALWAYS	ALWAYS			-
Lossy Image Compression Ratio	(0028,2112)	GENERATED	CONDITIONAL	ALWAYS			-
Presentation LUT Shape	(2050,0020)	GENERATED	ALWAYS	ALWAYS			-

Table DX Detector Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Imager Pixel Spacing	(0018,1164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Detector Type	(0018,7004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-
Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-

Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Data	(60xx,3000)	GENERATED	ALWAYS	ALWAYS			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Center & Width Explanation	(0028,1055)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
VOI LUT Sequence	(0028,3010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Acquisition Context Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Acquisition Context Sequence	(0040,0555)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.4.2 - Functional Group Macros - N/A

A.4.3 - Private Modules - N/A

A.4.4 - Coded Values - N/A

A.5 - CT Image Storage SOP Class

Table IOD of Created CT Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		<i>Patient Module</i>
Study	General Study	ALWAYS		<i>General Study Module</i>
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Patient Study Module</i>
Series	General Series	ALWAYS		<i>General Series Module</i>
Frame of Reference	Frame of Reference	ALWAYS		<i>Frame of Reference Module</i>
Equipment	General Equipment	ALWAYS		<i>General Equipment Module</i>
Acquisition	General Acquisition	ALWAYS		<i>General Acquisition Module</i>
Image	General Image	ALWAYS		<i>General Image Module</i>
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>General Reference Module</i>
	Image Plane	ALWAYS		<i>Image Plane Module</i>
	Image Pixel	ALWAYS		<i>Image Pixel Module</i>
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Contrast/Bolus Module</i>
	Device	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Device Module</i>
	CT Image	ALWAYS		<i>CT Image Module</i>
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Overlay Plane Module</i>
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>VOI LUT Module</i>
	SOP Common	ALWAYS		<i>SOP Common Module</i>

A.5.1 - IOD Specific Modules

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Slice Thickness	(0018,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Position (Patient)	(0020,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Orientation (Patient)	(0020,0037)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Location	(0020,1041)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Spacing	(0028,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Planar Configuration	(0028,0006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rows	(0028,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Smallest Image Pixel Value	(0028,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Largest Image Pixel Value	(0028,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Descriptor	(0028,1101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Green Palette Color Lookup Table Descriptor	(0028,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Descriptor	(0028,1103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Data	(0028,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Green Palette Color Lookup Table Data	(0028,1202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Data	(0028,1203)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Device Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Device Sequence	(0050,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Manufacturer	(0008,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY	Philips Portal		-
>Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device ID	(0018,1003)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Length	(0050,0014)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Device Diameter	(0050,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Diameter Units	(0050,0017)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Volume	(0050,0018)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Inter-Marker Distance	(0050,0019)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Description	(0050,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Version	(0008,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Mapping Resource	(0008,0105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Version	(0008,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Local Version	(0008,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Flag	(0008,010B)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Creator UID	(0008,010D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Identifier	(0008,010F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table CT Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			-
Scan Options	(0018,0022)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
KVP	(0018,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Data Collection Diameter	(0018,0090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reconstruction Diameter	(0018,1100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Distance Source to Detector	(0018,1110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Distance Source to Patient	(0018,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Gantry/Detector Tilt	(0018,1120)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Table Height	(0018,1130)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rotation Direction	(0018,1140)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure Time	(0018,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
X-Ray Tube Current	(0018,1151)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure	(0018,1152)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure in Å,ÅµAs	(0018,1153)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Filter Type	(0018,1160)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Generator Power	(0018,1170)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Focal Spot(s)	(0018,1190)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Convolution Kernel	(0018,1210)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Revolution Time	(0018,9305)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Single Collimation Width	(0018,9306)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Total Collimation Width	(0018,9307)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Table Speed	(0018,9309)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Table Feed per Rotation	(0018,9310)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Spiral Pitch Factor	(0018,9311)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure Modulation Type	(0018,9323)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
CTDIvol	(0018,9345)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Number	(0020,0012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Intercept	(0028,1052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Slope	(0028,1053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-
Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-
Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Data	(60xx,3000)	GENERATED	ALWAYS	ALWAYS			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Window Center & Width Explanation	(0028,1055)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
VOI LUT Sequence	(0028,3010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.5.2 - Functional Group Macros - N/A

A.5.3 - Private Modules - N/A

A.5.4 - Coded Values - N/A

A.6 - MR Image Storage SOP Class

Table IOD of Created MR Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
Frame of Reference	Frame of Reference	ALWAYS		Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Plane	ALWAYS		Image Plane Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	MR Image	ALWAYS		MR Image Module
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module

	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module

A.6.1 - IOD Specific Modules

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Slice Thickness	(0018,0050)	GENERATED SRC_INSTANCE	ALWAYS	CONDITIONAL			-
Image Position (Patient)	(0020,0032)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Image Orientation (Patient)	(0020,0037)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Slice Location	(0020,1041)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			Value is distance between the image plain and the reference point (0, 0, and 0).

							Value can be negative depending on the position of the plain to the reference point.
Pixel Spacing	(0028,0030)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Planar Configuration	(0028,0006)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			Applied values: min: 64 - max: 2048
Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			Applied values: min: 64 - max: 2048
Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Smallest Image Pixel Value	(0028,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Largest Image Pixel Value	(0028,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table MR Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			Applied values: {{ORIGINAL, DERIVED}, PRIMARY, {T2_STAR, R2, R2_STAR, W, F, IP, OP, KTRANS, KEP, VE, VP}, {KTRANS, KEP, VE, VP}, {UNSPECIFIED}}
Scanning Sequence	(0018,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Sequence Variant	(0018,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scan Options	(0018,0022)	GENERATED	ALWAYS	CONDITIONAL			-
MR Acquisition Type	(0018,0023)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Sequence Name	(0018,0024)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Angio Flag	(0018,0025)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Repetition Time	(0018,0080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Echo Time	(0018,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Inversion Time	(0018,0082)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Averages	(0018,0083)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Imaging Frequency	(0018,0084)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Imaged Nucleus	(0018,0085)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Echo Number(s)	(0018,0086)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Magnetic Field Strength	(0018,0087)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Spacing Between Slices	(0018,0088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Number of Phase Encoding Steps	(0018,0089)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Echo Train Length	(0018,0091)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Percent Sampling	(0018,0093)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Percent Phase Field of View	(0018,0094)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Bandwidth	(0018,0095)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Time	(0018,1060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			Will only have a value if Dynamic Series (2001,1012) Equals 1
Nominal Interval	(0018,1062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Beat Rejection Flag	(0018,1080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Low R-R Value	(0018,1081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High R-R Value	(0018,1082)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervals Acquired	(0018,1083)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervals Rejected	(0018,1084)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
PVC Rejection	(0018,1085)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Skip Beats	(0018,1086)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Heart Rate	(0018,1088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cardiac Number of Images	(0018,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Window	(0018,1094)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reconstruction Diameter	(0018,1100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			Value is a copy of the largest value of the Field of View.
Receive Coil Name	(0018,1250)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Transmit Coil Name	(0018,1251)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Acquisition Matrix	(0018,1310)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
In-plane Phase Encoding Direction	(0018,1312)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Flip Angle	(0018,1314)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Variable Flip Angle Flag	(0018,1315)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
SAR	(0018,1316)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
dB/dt	(0018,1318)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Temporal Position Identifier	(0020,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Temporal Positions	(0020,0105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Temporal Resolution	(0020,0110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Intercept	(0028,1052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Slope	(0028,1053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-
Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-
Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-

Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Data	(60xx,3000)	GENERATED	CONDITIONAL	ALWAYS			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	GENERATED	ALWAYS	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-
Window Center & Width Explanation	(0028,1055)	GENERATED	CONDITIONAL	ALWAYS			-

[A.6.2 - Functional Group Macros - N/A](#)

[A.6.3 - Private Modules - N/A](#)

[A.6.4 - Coded Values - N/A](#)

A.7 - MR Spectroscopy Storage SOP Class

Table IOD of Created MR Spectroscopy Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module

	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	MR Series	ALWAYS		MR Series Module
Frame of Reference	Frame of Reference	ALWAYS		Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
	Enhanced General Equipment	ALWAYS		Enhanced General Equipment Module
MR Spectroscopy	Multi-frame Functional Groups	ALWAYS		Multi-frame Functional Groups Module
	Multi-frame Dimension	ALWAYS		Multi-frame Dimension Module
	Cardiac Synchronization	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Cardiac Synchronization Module
	Respiratory Synchronization	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Respiratory Synchronization Module
	Bulk Motion Synchronization	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Bulk Motion Synchronization Module
	Acquisition Context	ALWAYS		Acquisition Context Module
	MR Spectroscopy	ALWAYS		MR Spectroscopy Module
	MR Spectroscopy Pulse Sequence	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	MR Spectroscopy Pulse Sequence Module
	MR Spectroscopy Data	ALWAYS		MR Spectroscopy Data Module
	SOP Common	ALWAYS		SOP Common Module

A.7.1 - IOD Specific Modules

Table MR Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	FIXED	ALWAYS	CONDITIONAL			-

Table Enhanced General Equipment Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Manufacturer	(0008,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Software Versions	(0018,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Acquisition Context Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Acquisition Context Sequence	(0040,0555)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Multi-frame Functional Groups Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Content Date	(0008,0023)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Content Time	(0008,0033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Instance Number	(0020,0013)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Frames	(0028,0008)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Shared Functional Groups Sequence	(5200,9229)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Per-frame Functional Groups Sequence	(5200,9230)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Multi-frame Dimension Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Dimension Organization Sequence	(0020,9221)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Dimension Organization UID	(0020,9164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Dimension Index Sequence	(0020,9222)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Dimension Organization UID	(0020,9164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Dimension Index Pointer	(0020,9165)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Functional Group Pointer	(0020,9167)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Dimension Index Private Creator	(0020,9213)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Functional Group Private Creator	(0020,9238)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Cardiac Synchronization Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Low R-R Value	(0018,1081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High R-R Value	(0018,1082)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervals Acquired	(0018,1083)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervals Rejected	(0018,1084)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Cardiac Synchronization Technique	(0018,9037)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cardiac R-R Interval Specified	(0018,9070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cardiac Signal Source	(0018,9085)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cardiac Beat Rejection Technique	(0018,9169)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Respiratory Synchronization Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Respiratory Motion Compensation Technique	(0018,9170)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Respiratory Signal Source	(0018,9171)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Respiratory Trigger Delay Threshold	(0020,9256)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Bulk Motion Synchronization Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Bulk Motion Compensation Technique	(0018,9172)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table MR Spectroscopy Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	DERIVED/ SECONDARY/ SPECTROSCOPY/ NONE		-

Spectral Width	(0018,9052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Chemical Shift Reference	(0018,9053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Volume Localization Technique	(0018,9054)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-coupling	(0018,9059)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-coupled Nucleus	(0018,9060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-coupling Frequency	(0018,9061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-coupling Method	(0018,9062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
De-coupling Chemical Shift Reference	(0018,9063)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Time Domain Filtering	(0018,9065)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Zero Fills	(0018,9066)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Baseline Correction	(0018,9067)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Transmitter Frequency	(0018,9098)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frequency Correction	(0018,9101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Volume Localization Sequence	(0018,9126)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Slab Thickness	(0018,9104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Slab Orientation	(0018,9105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Mid Slab Position	(0018,9106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
First Order Phase Correction	(0018,9198)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Water Referenced Phase Correction	(0018,9199)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition DateTime	(0008,002A)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Source Image Evidence Sequence	(0008,9154)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced Series Sequence	(0008,1115)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Referenced SOP Sequence	(0008,1199)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>>>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Series Instance UID	(0020,000E)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Study Instance UID	(0020,000D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Magnetic Field Strength	(0018,0087)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Content Qualification	(0018,9004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
k-space Filtering	(0018,9064)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Duration	(0018,9073)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Resonant Nucleus	(0018,9100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Applicable Safety Standard Agency	(0018,9174)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Number	(0020,0012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Comments	(0020,4000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Volumetric Properties	(0008,9206)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Volume Based Calculation Technique	(0008,9207)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Complex Image Component	(0008,9208)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Contrast	(0008,9209)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table MR Spectroscopy Pulse Sequence Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Pulse Sequence Name	(0018,9005)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Echo Pulse Sequence	(0018,9008)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Multiple Spin Echo	(0018,9011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Multi-planar Excitation	(0018,9012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Steady State Pulse Sequence	(0018,9017)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Echo Planar Pulse Sequence	(0018,9018)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Spectrally Selected Suppression	(0018,9025)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Geometry of k-Space Traversal	(0018,9032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Segmented k-Space Traversal	(0018,9033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rectilinear Phase Encode Reordering	(0018,9034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of k-Space Trajectories	(0018,9093)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Coverage of k-Space	(0018,9094)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
MR Spectroscopy Acquisition Type	(0018,9200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table MR Spectroscopy Data Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			-
Data Point Rows	(0028,9001)	GENERATED	ALWAYS	ALWAYS			-
Data Point Columns	(0028,9002)	GENERATED	ALWAYS	ALWAYS			-
Signal Domain Columns	(0028,9003)	GENERATED	ALWAYS	ALWAYS			FREQUENCY
Data Representation	(0028,9108)	GENERATED	ALWAYS	ALWAYS			-
First Order Phase Correction Angle	(5600,0010)	GENERATED	CONDITIONAL	ALWAYS			-
Spectroscopy Data	(5600,0020)	GENERATED	ALWAYS	ALWAYS			-

A.7.2 - Functional Group Macros

Content

Table MR Spectroscopy Functional Group Macro

Pixel Measures Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Pixel Measures Sequence	(0028,9110)	GENERATED	ALWAYS	ALWAYS			-
> Pixel Spacing	(0028,0030)	GENERATED	CONDITIONAL	ALWAYS			-
> Slice Thickness	(0018,0050)	GENERATED	CONDITIONAL	ALWAYS			-

Frame Content Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame Content Sequence	(0020,9111)	GENERATED	ALWAYS	ALWAYS			-
> Frame Reference DateTime	(0018,9151)	GENERATED	CONDITIONAL	ALWAYS			-
> Frame Acquisition DateTime	(0018,9074)	GENERATED	CONDITIONAL	ALWAYS			-
> Frame Acquisition Duration	(0018,9220)	GENERATED	CONDITIONAL	ALWAYS			-
> Dimension Index Values	(0020,9157)	GENERATED	CONDITIONAL	ALWAYS			-
> Temporal Position Index	(0020,9128)	GENERATED	CONDITIONAL	ALWAYS			-
> Stack ID	(0020,9056)	GENERATED	CONDITIONAL	ALWAYS			-
> In-Stack Position Number	(0020,9057)	GENERATED	CONDITIONAL	ALWAYS			-

Plane Position (Patient) Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Plane Position Sequence	(0020,9113)	GENERATED	ALWAYS	ALWAYS			-
> Image Position (Patient)	(0020,0032)	GENERATED	CONDITIONAL	ALWAYS			-

Plane Orientation (Patient) Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Plane Orientation Sequence	(0020,9116)	GENERATED	ALWAYS	ALWAYS			-
> Image Orientation (Patient)	(0020,0037)	GENERATED	CONDITIONAL	ALWAYS			-

Referenced Image Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Referenced Image Sequence	(0008,1140)	GENERATED	CONDITIONAL	ALWAYS			if scan was planned on another scan.
> Referenced SOP Class UID	(0008,1150)	GENERATED	CONDITIONAL	ALWAYS			-
> Referenced SOP Instance UID	(0008,1155)	GENERATED	CONDITIONAL	ALWAYS			-
> Referenced Frame Number	(0008,1160)	GENERATED	CONDITIONAL	ALWAYS			-
> Purpose of Reference Code Sequence	(0040,A170)	GENERATED	ALWAYS	ALWAYS			-
>> Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>> Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
>> Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-

Cardiac Synchronization Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Cardiac Synchronization Sequence	(0018,9118)	GENERATED	CONDITIONAL	ALWAYS			-
> Nominal Cardiac Trigger Delay Time	(0020,9153)	GENERATED	ALWAYS	ALWAYS			-
> R-R Interval Time Nominal	(0020,9251)	GENERATED	CONDITIONAL	ALWAYS			-

Frame Anatomy Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Frame Anatomy Sequence	(0020,9071)	GENERATED	CONDITIONAL	ALWAYS			-
> Frame Laterality	(0020,9072)	GENERATED	ALWAYS	ALWAYS			Value from examcard.
> Anatomic Region Sequence	(0008,2218)	GENERATED	ALWAYS	ALWAYS			-
>> Context UID	(0008,0117)	GENERATED	CONDITIONAL	ALWAYS			-

Respiratory Synchronization Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Respiratory Synchronization Sequence	(0020,9253)	GENERATED	CONDITIONAL	ALWAYS			-
> Respiratory Interval Time	(0020,9254)	GENERATED	ALWAYS	ALWAYS			-
> Nominal Respiratory Trigger Delay Time	(0020,9255)	GENERATED	ALWAYS	ALWAYS			-

MR Spectroscopy Frame Type Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Spectroscopy Frame Type Sequence	(0018,9227)	GENERATED	ALWAYS	ALWAYS			-
> Frame Type	(0008,9007)	GENERATED	ALWAYS	ALWAYS			-
> Volumetric Properties	(0008,9206)	GENERATED	ALWAYS	ALWAYS			-
> Volume Based Calculation Technique	(0008,9207)	GENERATED	ALWAYS	ALWAYS			-
> Complex Image Component	(0008,9208)	GENERATED	ALWAYS	ALWAYS			-
> Acquisition Contrast	(0008,9209)	GENERATED	ALWAYS	ALWAYS			-

MR Timing and Related Parameters Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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MR Timing and Related Parameters Sequence	(0018,9112)	GENERATED	ALWAYS	ALWAYS			-
> Repetition Time	(0018,0080)	GENERATED	CONDITIONAL	ALWAYS			-
> Flip Angle	(0018,1314)	GENERATED	CONDITIONAL	ALWAYS			-
> Echo Train Length	(0018,0091)	GENERATED	CONDITIONAL	ALWAYS			-
> RF Echo Train Length	(0018,9240)	GENERATED	CONDITIONAL	ALWAYS			-
> Gradient Echo Train Length	(0018,9241)	GENERATED	CONDITIONAL	ALWAYS			-
> Specific Absorption Rate Sequence	(0018,9239)	GENERATED	CONDITIONAL	ALWAYS			-
>> Specific Absorption Rate Definition	(0018,9179)	GENERATED	ALWAYS	ALWAYS			-
>> Specific Absorption Rate Value	(0018,9181)	GENERATED	ALWAYS	ALWAYS			-
> Gradient Output Type	(0018,9180)	GENERATED	CONDITIONAL	ALWAYS			-
> Gradient Output	(0018,9182)	GENERATED	CONDITIONAL	ALWAYS			-
> Operating Mode Sequence	(0018,9176)	GENERATED	CONDITIONAL	ALWAYS			-
>> Operating Mode Type	(0018,9177)	GENERATED	ALWAYS	ALWAYS			-
>> Operating Mode	(0018,9178)	GENERATED	ALWAYS	ALWAYS			-

MR Spectroscopy FOV/Geometry Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Spectroscopy FOV/Geometry Sequence	(0018,9103)	GENERATED	ALWAYS	ALWAYS			-
> Spectroscopy Acquisition Data Columns	(0018,9127)	GENERATED	CONDITIONAL	ALWAYS			-
> Spectroscopy Acquisition Phase Rows	(0018,9095)	GENERATED	CONDITIONAL	ALWAYS			-

> Spectroscopy Acquisition Phase Columns	(0018,9234)	GENERATED	CONDITIONAL	ALWAYS			-
> Spectroscopy Acquisition Out-of-plane Phase Steps	(0018,9159)	GENERATED	CONDITIONAL	ALWAYS			-
> Percent Sampling	(0018,0093)	GENERATED	CONDITIONAL	ALWAYS			-
> Percent Phase Field of View	(0018,0094)	GENERATED	CONDITIONAL	ALWAYS			-

MR Echo Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Echo Sequence	(0018,9114)	GENERATED	ALWAYS	ALWAYS			-
> Effective Echo Time	(0018,9082)	GENERATED	CONDITIONAL	ALWAYS			-

MR Modifier Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Modifier Sequence	(0018,9115)	GENERATED	ALWAYS	ALWAYS			-
> Inversion Recovery	(0018,9009)	GENERATED	CONDITIONAL	ALWAYS			-
> Inversion Times	(0018,9079)	GENERATED	CONDITIONAL	ALWAYS			-
> Flow Compensation	(0018,9010)	GENERATED	CONDITIONAL	ALWAYS			-
> Flow Compensation Direction	(0018,9183)	GENERATED	CONDITIONAL	ALWAYS			-
> Spoiling	(0018,9016)	GENERATED	CONDITIONAL	ALWAYS			-
> T2 Preparation	(0018,9021)	GENERATED	CONDITIONAL	ALWAYS			-
> Spectrally Selected Excitation	(0018,9026)	GENERATED	CONDITIONAL	ALWAYS			-
> Spatial Pre-saturation	(0018,9027)	GENERATED	CONDITIONAL	ALWAYS			-
> Partial Fourier	(0018,9081)	GENERATED	CONDITIONAL	ALWAYS			-
> Partial Fourier Direction	(0018,9036)	GENERATED	CONDITIONAL	ALWAYS			-
> Parallel Acquisition	(0018,9077)	GENERATED	CONDITIONAL	ALWAYS			-

> Parallel Acquisition Technique	(0018,9078)	GENERATED	CONDITIONAL	ALWAYS			-
> Parallel Reduction Factor In-plane	(0018,9069)	GENERATED	CONDITIONAL	ALWAYS			-
> Parallel Reduction Factor out-of-plane	(0018,9155)	GENERATED	CONDITIONAL	ALWAYS			-
> Parallel Reduction Factor Second In-plane	(0018,9168)	GENERATED	CONDITIONAL	ALWAYS			-

MR Receive Coil Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Receive Coil Sequence	(0018,9042)	GENERATED	ALWAYS	ALWAYS			-
> Receive Coil Name	(0018,1250)	GENERATED	CONDITIONAL	ALWAYS			-
> Receive Coil Manufacturer Name	(0018,9041)	GENERATED	ALWAYS	EMPTY			-
> Receive Coil Type	(0018,9043)	GENERATED	CONDITIONAL	ALWAYS			-
> Quadrature Receive Coil	(0018,9044)	GENERATED	CONDITIONAL	ALWAYS			-
> Multi-Coil Definition Sequence	(0018,9045)	GENERATED	CONDITIONAL	ALWAYS			-
>> Multi-Coil Element Name	(0018,9047)	GENERATED	ALWAYS	ALWAYS			-
>> Multi-Coil Element Used	(0018,9048)	GENERATED	ALWAYS	ALWAYS			-

MR Transmit Coil Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Transmit Coil Sequence	(0018,9049)	GENERATED	CONDITIONAL	ALWAYS			-
> Transmit Coil Name	(0018,1251)	GENERATED	ALWAYS	ALWAYS			-
> Transmit Coil Manufacturer Name	(0018,9050)	FIXED	ALWAYS	EMPTY			-

> Transmit Coil Type	(0018,9051)	GENERATED	CONDITIONAL	ALWAYS			-
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MR Diffusion Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Diffusion Sequence	(0018,9117)	GENERATED	CONDITIONAL	ALWAYS			-
> Diffusion b-value	(0018,9087)	GENERATED	CONDITIONAL	ALWAYS			-
> Diffusion Directionality	(0018,9075)	GENERATED	CONDITIONAL	ALWAYS			-
> Diffusion Gradient Direction Sequence	(0018,9076)	GENERATED	CONDITIONAL	ALWAYS			-
>> Diffusion Gradient Orientation	(0018,9089)	GENERATED	CONDITIONAL	ALWAYS			-
> Diffusion b-matrix Sequence	(0018,9601)	GENERATED	CONDITIONAL	ALWAYS			-
> Diffusion Anisotropy Type	(0018,9147)	GENERATED	CONDITIONAL	ALWAYS			Applied value: FRACTIONAL

MR Averages Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Averages Sequence	(0018,9119)	GENERATED	ALWAYS	ALWAYS			-
> Number of Averages	(0018,0083)	GENERATED	CONDITIONAL	ALWAYS			-

MR Spatial Saturation Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Spatial Saturation Sequence	(0018,9107)	GENERATED	CONDITIONAL	ALWAYS			if slab information is present
> Slab Thickness	(0018,9104)	GENERATED	ALWAYS	ALWAYS			-
> Slab Orientation	(0018,9105)	GENERATED	ALWAYS	ALWAYS			-
> Mid Slab Position	(0018,9106)	GENERATED	ALWAYS	ALWAYS			-

MR Velocity Encoding Macro Attributes

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
MR Velocity Encoding Sequence	(0018,9197)	GENERATED	CONDITIONAL	ALWAYS			-
> Velocity Encoding Direction	(0018,9090)	GENERATED	CONDITIONAL	ALWAYS			-
> Velocity Encoding Minimum Value	(0018,9091)	GENERATED	CONDITIONAL	ALWAYS			Applied value: 0.0
> Velocity Encoding Maximum Value	(0018,9217)	GENERATED	CONDITIONAL	ALWAYS			-

[A.7.3 - Private Modules - N/A](#)

[A.7.4 - Coded Values - N/A](#)

A.8 - Ultrasound Image Storage SOP Class

Table IOD of Created Ultrasound Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
Frame of Reference	Frame of Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module

	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	US Image	ALWAYS		US Image Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module

A.8.1 - IOD Specific Modules

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Position Reference Indicator	(0020,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rows	(0028,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-

Table US Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	SRC_INSTANCE	SRC_COPY	SRC_COPY	DERIVED\SECONDARY		-

Samples per Pixel	(0028,0002)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Planar Configuration	(0028,0006)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS	8		-
Bits Stored	(0028,0101)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS	8		-
High Bit	(0028,0102)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS	7		-
Pixel Representation	(0028,0103)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS	0		-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	GENERATED	CONDITIONAL	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-

[A.8.2 - Functional Group Macros - N/A](#)

[A.8.3 - Private Modules - N/A](#)

[A.8.4 - Coded Values - N/A](#)

[A.9 - Secondary Capture Image Storage SOP Class](#)

Table IOD of Created Secondary Capture Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
	SC Equipment	ALWAYS		SC Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Device	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Device Module
	SC Image	ALWAYS		SC Image Module
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module
	Modality LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Modality LUT Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module
	Common Instance Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Common Instance Reference Module

A.9.1 - IOD Specific Modules

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS	3		-

Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Planar Configuration	(0028,0006)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Rows	(0028,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	GENERATED	ALWAYS	ALWAYS	8		-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS	8		-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS	7		-
Pixel Representation	(0028,0103)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS	0		In 3DM, presence of value column is ANAP
Smallest Image Pixel Value	(0028,0106)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Red Palette Color Lookup Table Descriptor	(0028,1101)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Green Palette Color Lookup Table Descriptor	(0028,1102)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Blue Palette Color Lookup Table Descriptor	(0028,1103)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Red Palette Color Lookup Table Data	(0028,1201)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Green Palette Color Lookup Table Data	(0028,1202)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-

Blue Palette Color Lookup Table Data	(0028,1203)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-

Table Device Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Device Sequence	(0050,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Manufacturer	(0008,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device ID	(0018,1003)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Length	(0050,0014)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Diameter	(0050,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Diameter Units	(0050,0017)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Volume	(0050,0018)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Inter-Marker Distance	(0050,0019)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Device Description	(0050,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Version	(0008,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Mapping Resource	(0008,0105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Version	(0008,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Local Version	(0008,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Context Group Extension Flag	(0008,010B)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Creator UID	(0008,010D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Identifier	(0008,010F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table SC Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Date of Secondary Capture	(0018,1012)	GENERATED	CONDITIONAL	ALWAYS			-
Time of Secondary Capture	(0018,1014)	GENERATED	CONDITIONAL	ALWAYS			-
Pixel Spacing	(0028,0030)	GENERATED	CONDITIONAL	ALWAYS			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Columns	(60xx,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Description	(60xx,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Type	(60xx,0040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Subtype	(60xx,0045)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Origin	(60xx,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Bits Allocated	(60xx,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Bit Position	(60xx,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Area	(60xx,1301)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Mean	(60xx,1302)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Standard Deviation	(60xx,1303)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Label	(60xx,1500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Overlay Data	(60xx,3000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
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Table Modality LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rescale Intercept	(0028,1052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Slope	(0028,1053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Type	(0028,1054)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Modality LUT Sequence	(0028,3000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>LUT Descriptor	(0028,3002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>LUT Explanation	(0028,3003)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Modality LUT Type	(0028,3004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>LUT Data	(0028,3006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Center & Width Explanation	(0028,1055)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
VOI LUT Sequence	(0028,3010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Common Instance Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Referenced Series Sequence	(0008,1115)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Referenced Instance Sequence	(0008,114A)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Series Instance UID	(0020,000E)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.9.2 - Functional Group Macros - N/A

A.9.3 - Private Modules - N/A

A.9.4 - Coded Values - N/A

A.10 - Grayscale Softcopy Presentation State Storage SOP Class

Table IOD of Created Grayscale Softcopy Presentation State Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	Presentation Series	ALWAYS		Presentation Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Presentation State	Presentation State Identification	ALWAYS		Presentation State Identification Module
	Presentation State Relationship	ALWAYS		Presentation State Relationship Module
	Display Shutter	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Display Shutter Module
	Displayed Area	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Displayed Area Module
	Graphic Annotation	CONDITIONAL	IF GRAPHIC ANNOTATIONS ARE PRESENT	Graphic Annotation

	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module
	Overlay Activation	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Activation Module
	Spatial Transformation	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Spatial Transformation Module
	Modality LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Modality LUT Module
	Softcopy VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Softcopy VOI LUT Module
	Softcopy Presentation LUT	ALWAYS		Softcopy Presentation LUT Module
	SOP Common	ALWAYS		SOP Common Module

A.10.1 - IOD Specific Modules

Table Presentation Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	GENERATED	ALWAYS	ALWAYS			-

Table Presentation State Identification Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Presentation Creation Date	(0070,0082)	GENERATED	ALWAYS	ALWAYS			-
Presentation Creation Time	(0070,0083)	GENERATED	ALWAYS	ALWAYS			-
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			-
Content Label	(0070,0080)	GENERATED	ALWAYS	ALWAYS	AS LAST SEEN		Applied values: AS LAST SEEN
Content Description	(0070,0081)	GENERATED	ALWAYS	CONDITIONAL			-
Content Creator's Name	(0070,0084)	GENERATED	ALWAYS	CONDITIONAL			-

Table Presentation State Relationship Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Referenced Series Sequence	(0008,1115)	GENERATED	ALWAYS	ALWAYS			-
>Referenced Image Sequence	(0008,1140)	GENERATED	CONDITIONAL	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-

Table Display Shutter Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Shutter Presentation Value	(0018,1622)	GENERATED	CONDITIONAL	ALWAYS			Applied value: 0

Table Displayed Area Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Displayed Area Selection Sequence	(0070,005A)	GENERATED	ALWAYS	ALWAYS			-
>Referenced Image Sequence	(0008,1140)	GENERATED	CONDITIONAL	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>Displayed Area Top Left Hand Corner	(0070,0052)	GENERATED	ALWAYS	ALWAYS			-
>Displayed Area Bottom Right Hand Corner	(0070,0053)	GENERATED	ALWAYS	ALWAYS			-

>Presentation Size Mode	(0070,0100)	GENERATED	ALWAYS	ALWAYS	MAGNIFY, SCALE TO FIT		-
>Presentation Pixel Spacing	(0070,0101)	GENERATED	CONDITIONAL	ALWAYS			Applied values: (0.0, 0.0)
>Presentation Pixel Aspect Ratio	(0070,0102)	GENERATED	CONDITIONAL	ALWAYS			-
>Presentation Pixel Magnification Ratio	(0070,0103)	GENERATED	CONDITIONAL	ALWAYS			Applied value: 1.0

Table Graphic Annotation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Graphic Annotation Sequence	(0070,0001)	USER	CONDITIONAL	ALWAYS		If graphic annotations are present	-
>Referenced Image Sequence	(0008,1140)	USER	ALWAYS	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	USER	ALWAYS	ALWAYS			-
>>Referenced SOP Instance UID	(0008,1155)	USER	ALWAYS	ALWAYS			-
>Graphic Layer	(0070,0002)	USER	ALWAYS	ALWAYS			-
>Text Object Sequence	(0070,0008)	USER	CONDITIONAL	CONDITIONAL		If text is part of the user annotation	-
>>Anchor Point Annotation Units	(0070,0004)	USER	ALWAYS	ALWAYS			-
>>Unformatted Text Value	(0070,0006)	USER	ALWAYS	ALWAYS			-
>>Anchor Point	(0070,0014)	USER	ALWAYS	ALWAYS			-
>>Anchor Point Visibility	(0070,0015)	USER	ALWAYS	ALWAYS			-

>Graphic Object Sequence	(0070,0009)	USER	CONDITIONAL	CONDITIONAL		If user annotation contains graphic object	-
>>Graphic Annotation Units	(0070,0005)	USER	ALWAYS	ALWAYS			-
>>Graphic Dimensions	(0070,0020)	USER	ALWAYS	ALWAYS			-
>>Number of Graphic Points	(0070,0021)	USER	ALWAYS	ALWAYS			-
>>Graphic Data	(0070,0022)	USER	ALWAYS	ALWAYS			-
>>Graphic Type	(0070,0023)	USER	ALWAYS	ALWAYS			-
>>Graphic Filled	(0070,0024)	USER	ALWAYS	ALWAYS			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Columns	(60xx,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Description	(60xx,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Type	(60xx,0040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Subtype	(60xx,0045)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Origin	(60xx,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Bits Allocated	(60xx,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Bit Position	(60xx,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Area	(60xx,1301)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Mean	(60xx,1302)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
ROI Standard Deviation	(60xx,1303)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Overlay Label	(60xx,1500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Overlay Data	(60xx,3000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
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Table Overlay Activation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Activation Layer	(60xx,1001)	SRC_INSTANCE	SRC_COPY	SRC_COPY			Applied value: 1

Table Spatial Transformation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Horizontal Flip	(0070,0041)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Rotation	(0070,0042)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Modality LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rescale Intercept	(0028,1052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Slope	(0028,1053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rescale Type	(0028,1054)	SRC_INSTANCE	SRC_COPY	SRC_COPY	cm/sec, millirads, milliseconds, mm^2/sec, normalized, seconds, US		-

Table Softcopy VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Softcopy VOI LUT Sequence	(0028,3110)	GENERATED	ALWAYS	ALWAYS			-

>Referenced Image Sequence	(0008,1140)	GENERATED	CONDITIONAL	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>Window Center	(0028,1050)	GENERATED	ALWAYS	ALWAYS			-
>Window Width	(0028,1051)	GENERATED	ALWAYS	ALWAYS			-

Table Softcopy Presentation LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Presentation LUT Sequence	(2050,0010)	GENERATED	CONDITIONAL	ALWAYS			Present if Presentation LUT Shape not present.
>LUT Descriptor	(0028,3002)	GENERATED	ALWAYS	ALWAYS			-
>LUT Data	(0028,3006)	GENERATED	ALWAYS	ALWAYS			-
Presentation LUT Shape	(2050,0020)	GENERATED	ALWAYS	ALWAYS			-

[A.10.2 - Functional Group Macros - N/A](#)

[A.10.3 - Private Modules - N/A](#)

[A.10.4 - Coded Values - N/A](#)

A.11 - X-Ray Angiographic Storage SOP Class

Table IOD of Created X-Ray Angiographic Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module

	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	Cine	CONDITIONAL	IF PIXEL DATA IS MULTI-FRAME CINE DATA	Cine Module
	Multi-frame	CONDITIONAL	IF PIXEL DATA IS MULTI-FRAME CINE DATA	Multi-frame Module
	Display Shutter	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Display Shutter Module
	X-Ray Image	ALWAYS		X-Ray Image Module
	X-Ray Acquisition	ALWAYS		X-Ray Acquisition Module
	X-Ray Table	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	X-Ray Table Module
	XA Positioner	ALWAYS		XA Positioner Module
	DX Detector	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	DX Detector Module
	Modality LUT	CONDITIONAL	if Pixel Intensity Relationship (0028,1040) is LOG	Modality LUT Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module

[A.11.1 - IOD Specific Modules](#)

Table Image Pixel

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Rows	(0028,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Columns	(0028,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Cine Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame Time Vector	(0018,1065)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Recommended Display Frame Rate	(0008,2144)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cine Rate	(0018,0040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Multi-Frame Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Number of Frames	(0028,0008)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Increment Pointer	(0028,0009)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Display Shutter Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Shutter Shape	(0018,1600)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Shutter Left Vertical Edge	(0018,1602)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Shutter Right Vertical Edge	(0018,1604)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Shutter Upper Horizontal Edge	(0018,1606)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Shutter Lower Horizontal Edge	(0018,1608)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table X-Ray Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	FIXED	ALWAYS	ALWAYS	Derived		-
Lossy Image Compression	(0028,2110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Intensity Relationship	(0028,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Increment Pointer	(0028,0009)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table X-Ray Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
KVP	(0018,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Imager Pixel Spacing	(0018,1164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure	(0018,1152)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiation Setting	(0018,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Spacing	(0028,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table X-Ray Table Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Table Motion	(0018,1134)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table XA Positioner Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Distance Source to Detector	(0018,1110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Distance Source to Patient	(0018,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Positioner Motion	(0018,1500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Positioner Primary Angle	(0018,1510)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Positioner Secondary Angle	(0018,1511)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table DX Detector Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Imager Pixel Spacing	(0018,1164)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Modality LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality LUT Sequence	(0028,3000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>LUT Descriptor	(0028,3002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Modality LUT Type	(0028,3004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>LUT Data	(0028,3006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

[A.11.2 - Functional Group Macros - N/A](#)

[A.11.3 - Private Modules - N/A](#)

[A.11.4 - Coded Values - N/A](#)

A.12 - X-Ray Radio fluoroscopic Image Storage SOP Class

Table IOD of Created X-Ray Radio fluoroscopic Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Contrast/Bolus	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Contrast/Bolus Module
	Cine	CONDITIONAL	IF PIXEL DATA IS MULTI-FRAME CINE DATA	Cine Module
	X-Ray Image	ALWAYS		X-Ray Image Module

	X-Ray Acquisition	ALWAYS		X-Ray Acquisition Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module

A.12.1 - IOD Specific Modules

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rows	(0028,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Columns	(0028,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Cine Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame Time Vector	(0018,1065)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table X-Ray Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Image Type	(0008,0008)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Derivation Description	(0008,2111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Intensity Relationship	(0028,1040)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table X-Ray Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
KVP	(0018,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure Time	(0018,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
X-Ray Tube Current	(0018,1151)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Exposure	(0018,1152)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiation Setting	(0018,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Window Width	(0028,1051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.12.2 - Functional Group Macros - N/A

A.12.3 - Private Modules - N/A

A.12.4 - Coded Values - N/A

A.13 - Nuclear Medicine Image Storage SOP Class

Table IOD of Created Nuclear Medicine Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	NM/PET Patient Orientation	ALWAYS		NM/PET Patient Orientation Module
Frame of Reference	Frame of Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	NM Image Pixel	ALWAYS		NM Image Pixel Module
	Multi-frame	ALWAYS		Multi-frame Module
	NM Multi-frame	ALWAYS		NM Multi-frame Module
	NM Image	ALWAYS		NM Image Module
	NM Isotope	ALWAYS		NM Isotope Module
	NM Detector	ALWAYS		NM Detector Module
	NM TOMO Acquisition	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	NM TOMO Acquisition Module

	NM Multi-gated Acquisition	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	NM Multi-gated Acquisition Module
	NM Phase	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	NM Phase Module
	NM Reconstruction	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	NM Reconstruction Module
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Overlay Plane Module
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	VOI LUT Module
	SOP Common	ALWAYS		SOP Common Module

A.13.1 - IOD Specific Modules

Table NM/PET Patient Orientation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Patient Gantry Relationship Code Sequence	(0054,0414)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Patient Orientation Code Sequence	(0054,0410)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Patient Orientation Modifier Code Sequence	(0054,0412)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	GENERATED	ALWAYS	ALWAYS			-
Position Reference Indicator	(0020,1040)	GENERATED	ALWAYS	CONDITIONAL			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Planar Configuration	(0028,0006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rows	(0028,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Smallest Image Pixel Value	(0028,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Descriptor	(0028,1101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Green Palette Color Lookup Table Descriptor	(0028,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Descriptor	(0028,1103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Data	(0028,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Green Palette Color Lookup Table Data	(0028,1202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Data	(0028,1203)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table NM Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Spacing	(0028,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Stored	(0028,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High Bit	(0028,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Multi-Frame Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Number of Frames	(0028,0008)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
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Table NM Multi-Frame Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Detector Vector	(0054,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Energy Window Vector	(0054,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Increment Pointer	(0028,0009)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Detectors	(0054,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Energy Windows	(0054,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of R-R Intervals	(0054,0061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Rotations	(0054,0051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Slices	(0054,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Time Slots	(0054,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
R-R Interval Vector	(0054,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rotation Vector	(0054,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Vector	(0054,0080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Time Slot Vector	(0054,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	DERIVED/SECONDARY		-
Acquisition Termination Condition	(0018,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Corrected Image	(0028,0051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Counts Accumulated	(0018,0070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image ID	(0054,0400)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Lossy Image Compression	(0028,2110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Table Height	(0018,1130)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Table Traverse	(0018,1131)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Actual Frame Duration	(0018,1242)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Count Rate	(0018,1243)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Processing Function	(0018,5020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Whole Body Technique	(0018,1301)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scan Velocity	(0018,1300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scan Length	(0018,1302)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Source or Type	(0018,1061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Anatomic Region Sequence	(0008,2218)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Isotope Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Energy Window Information Sequence	(0054,0012)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Energy Window Name	(0054,0018)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Energy Window Range Sequence	(0054,0013)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Energy Window Lower Limit	(0054,0014)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Energy Window Upper Limit	(0054,0015)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiopharmaceutical Information Sequence	(0054,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Radionuclide Total Dose	(0018,1074)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical	(0018,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Start Time	(0018,1072)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Volume	(0018,1071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Code Sequence	(0054,0300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervention Drug Dose	(0018,0028)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Detector Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Detector Information Sequence	(0054,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Image Orientation (Patient)	(0020,0037)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Zoom Center	(0028,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Collimator Type	(0018,1181)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Collimator/grid Name	(0018,1180)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Focal Distance	(0018,1182)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Image Position (Patient)	(0020,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>View Code Sequence	(0054,0220)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Tomo Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rotation Information Sequence	(0054,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Actual Frame Duration	(0018,1242)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Angular Step	(0018,1144)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Number of Frames in Rotation	(0054,0053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Rotation Direction	(0018,1140)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Scan Arc	(0018,1143)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Start Angle	(0054,0200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Table Height	(0018,1130)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Table Traverse	(0018,1131)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Type of Detector Motion	(0054,0202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Multi-gated Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Gated Information Sequence	(0054,0062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Data Information Sequence	(0054,0063)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Frame Time	(0018,1063)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Time Slot Information Sequence	(0054,0072)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>>Time Slot Time	(0054,0073)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Beat Rejection Flag	(0018,1080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
PVC Rejection	(0018,1085)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Skip Beats	(0018,1086)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Heart Rate	(0018,1088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Phase Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Phase Information Sequence	(0054,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Phase Delay	(0054,0036)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Actual Frame Duration	(0018,1242)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Pause Between Frames	(0054,0038)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Number of Frames in Phase	(0054,0033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Trigger Vector	(0054,0210)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Number of Triggers in Phase	(0054,0211)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Phase Description	(0054,0039)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM Reconstruction Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Slice Thickness	(0018,0050)	GENERATED	ALWAYS	CONDITIONAL			-
Spacing Between Slices	(0018,0088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reconstruction Diameter	(0018,1100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Convolution Kernel	(0018,1210)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Location	(0020,1041)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Progression Direction	(0054,0500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-

Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-
Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Data	(60xx,3000)	GENERATED	CONDITIONAL	ALWAYS			-

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	GENERATED	ALWAYS	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-
Window Center & Width Explanation	(0028,1055)	GENERATED	CONDITIONAL	ALWAYS			-
VOI LUT Sequence	(0028,3010)	GENERATED	CONDITIONAL	ALWAYS			-

A.13.2 - Functional Group Macros - N/A

A.13.3 - Private Modules - N/A

A.13.4 - Coded Values - N/A

A.14 - Surface Segmentation Storage SOP Class

Table IOD of Created Surface Segmentation Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	ALWAYS		Patient Study Module
Series	General Series	ALWAYS		General Series Module
	Segmentation Series	ALWAYS		Segmentation Series Module
Frame of Reference	Frame of Reference	ALWAYS		Frame of Reference Module
Equipment	General Equipment	ALWAYS		General Equipment Module
	Enhanced General Equipment	ALWAYS		Enhanced General Equipment Module
Surface	Surface Segmentation	ALWAYS		Surface Segmentation Module
	Surface Mesh	ALWAYS		Surface Mesh Module
	Common Instance Reference	ALWAYS		Common Instance Reference Module
	SOP Common	ALWAYS		SOP Common Module

A.14.1 - IOD Specific Modules

Table Segmentation Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	FIXED	ALWAYS	ALWAYS	SEG		-

Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			-
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Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Position Reference Indicator	(0020,1040)	EMPTY	ALWAYS	EMPTY			-

Table Enhanced General Equipment Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Manufacturer	(0008,0070)	FIXED	ALWAYS	ALWAYS	Philips		-
Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Software Versions	(0018,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Surface Segmentation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Instance Number	(0020,0013)	FIXED	ALWAYS	ALWAYS	1		-
Content Label	(0070,0080)	FIXED	ALWAYS	ALWAYS	SURFACE		-
Content Description	(0070,0081)	EMPTY	ALWAYS	EMPTY			-
Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			-
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			-
Segment Sequence	(0062,0002)	GENERATED	ALWAYS	ALWAYS			-
>Segment Number	(0062,0004)	GENERATED	ALWAYS	ALWAYS			-
>Segment Label	(0062,0005)	GENERATED	ALWAYS	ALWAYS			-

>Segment Algorithm Type	(0062,0008)	GENERATED	ALWAYS	ALWAYS			-
>Segmented Property Category Code Sequence	(0062,0003)	GENERATED	ALWAYS	ALWAYS			-
>>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
>>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>Segmented Property Type Code Sequence	(0062,000F)	GENERATED	ALWAYS	ALWAYS			-
>>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
>>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>Tracking ID	(0062,0020)	GENERATED	ALWAYS	ALWAYS			-
>Tracking UID	(0062,0021)	GENERATED	ALWAYS	ALWAYS			-
>Surface Count	(0066,002A)	GENERATED	ALWAYS	ALWAYS			-
>Referenced Surface Sequence	(0066,002B)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced Surface Number	(0066,002C)	GENERATED	ALWAYS	ALWAYS			-
>>Segment Surface Generation Algorithm Identification Sequence	(0066,002D)	GENERATED	ALWAYS	ALWAYS			-
>>>Algorithm Family Code Sequence	(0066,002F)	GENERATED	ALWAYS	ALWAYS			-
>>>>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>>>>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
>>>>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>>>Algorithm Name	(0066,0036)	GENERATED	ALWAYS	ALWAYS			-
>>>Algorithm Version	(0066,0031)	GENERATED	ALWAYS	ALWAYS			-

>>Segment Surface Source Instance Sequence	(0066,002E)	EMPTY	ALWAYS	EMPTY			-
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Table Surface Mesh Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Number of Surfaces	(0066,0001)	GENERATED	ALWAYS	ALWAYS			-
Surface Sequence	(0066,0002)	GENERATED	ALWAYS	ALWAYS			-
>Surface Number	(0066,0003)	GENERATED	ALWAYS	ALWAYS			-
>Surface Comments	(0066,0004)	GENERATED	ALWAYS	ALWAYS		Shall be Centerline or InnerContours if (0066,000D) == POINTS	Shall be Centerline or InnerContours if (0066,000D) == POINTS. In case of (0066,000D) == MESH it shall describe the Surface it represents
>Segmented Property Type Code Sequence	(0062,000F)	GENERATED	CONDITIONAL	ALWAYS		Shall be present if (0066,000D) == POINTS	-
>>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
>>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>Surface Processing	(0066,0009)	FIXED	ALWAYS	ALWAYS	NO		-
>Recommended Display Grayscale Value	(0062,000C)	GENERATED	ALWAYS	ALWAYS			-
>Recommended Display CIELab Value	(0062,000D)	GENERATED	ALWAYS	ALWAYS			-

>Recommended Presentation Opacity	(0066,000C)	GENERATED	ALWAYS	ALWAYS			-
>Recommended Presentation Type	(0066,000D)	GENERATED	ALWAYS	ALWAYS	SURFACE; POINTS		Shall be POINTS for Centerline or Contours and SURFACE for other cases
>Finite Volume	(0066,000E)	GENERATED	ALWAYS	ALWAYS	UNKNOWN		-
>Manifold	(0066,0010)	GENERATED	ALWAYS	ALWAYS			-
>Surface Points Sequence	(0066,0011)	GENERATED	ALWAYS	ALWAYS			-
>>Number of Surface Points	(0066,0015)	GENERATED	ALWAYS	ALWAYS			-
>>Point Coordinates Data	(0066,0016)	GENERATED	ALWAYS	ALWAYS			-
>Surface Points Normals Sequence	(0066,0012)	GENERATED	ALWAYS	CONDITIONAL		Shall be populated when (0066,000D) == SURFACE	-
>>Number of Vectors	(0066,001E)	GENERATED	ALWAYS	ALWAYS			-
>>Vector Dimensionality	(0066,001F)	GENERATED	ALWAYS	ALWAYS			-
>>Vector Coordinate Data	(0066,0021)	GENERATED	ALWAYS	ALWAYS			-
>Surface Mesh Primitives Sequence	(0066,0013)	GENERATED	ALWAYS	ALWAYS			In case of Centerline the content item will be having empty attributes only, this to comply with Type 1 and 2 requirements.
>>Long Vertex Point Index List	(0066,0043)	GENERATED	ALWAYS	EMPTY			Attribute will not be used
>>Long Edge Point Index List	(0066,0042)	GENERATED	ALWAYS	EMPTY			Attribute will not be used

>>Long Triangle Point Index List	(0066,0041)	GENERATED	ALWAYS	CONDITIONAL		Shall be present when (0066,000D) == SURFACE	-
>>Triangle Strip Sequence	(0066,0026)	GENERATED	ALWAYS	EMPTY			Attribute will not be used
>>>Long Primitive Point Index List	(0066,0040)	GENERATED	ALWAYS	ALWAYS			-
>>Triangle Fan Sequence	(0066,0027)	GENERATED	ALWAYS	EMPTY			Attribute will not be used
>>>Long Primitive Point Index List	(0066,0040)	GENERATED	ALWAYS	ALWAYS			-
>>Line Sequence	(0066,0028)	GENERATED	ALWAYS	CONDITIONAL		Shall be populated when (0066,0004) == InnerContours	-
>>>Long Primitive Point Index List	(0066,0040)	GENERATED	ALWAYS	ALWAYS			-
>>Facet Sequence	(0066,0034)	GENERATED	ALWAYS	EMPTY			Attribute will not be used

Table Common Instance Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Referenced Series Sequence	(0008,1115)	GENERATED	ALWAYS	ALWAYS			-
>Series Instance UID	(0020,000E)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced Instance Sequence	(0008,114A)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.14.2 - Functional Group Macros - N/A

A.14.3 - Private Modules - N/A

A.14.4 - Coded Values - N/A

A.15 - Key Object Selection Document Storage SOP Class

Table IOD of Created Key Object Selection Document Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	Key Object Document Series	ALWAYS		Key Object Document Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
SR Document	Key Object Document	ALWAYS		Key Object Document Module
	SR Document Content	ALWAYS		SR Document Content Module
	SOP Common	ALWAYS		SOP Common Module

A.15.1 - IOD Specific Modules

Table Key Object Document Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Description	(0008,103E)	SRC_INSTANCE USER	CONDITIONAL	ALWAYS			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
Series Number	(0020,0011)	GENERATED	ALWAYS	CONDITIONAL			-

Table Key Object Document Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Content Time	(0008,0033)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Content Date	(0008,0023)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Current Requested Procedure Evidence Sequence	(0040,A375)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Study Instance UID	(0020,000D)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Referenced Series Sequence	(0008,1115)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Series Instance UID	(0020,000E)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Referenced SOP Sequence	(0008,1199)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>>Referenced SOP Class UID	(0008,1150)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>>Referenced SOP Instance UID	(0008,1155)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

Table SR Document Content Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Value Type	(0040,A040)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

Concept Name Code Sequence	(0040,A043)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>Code Value	(0008,0100)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Coding Scheme Designator	(0008,0102)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Code Meaning	(0008,0104)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Continuity Of Content	(0040,A050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Content Template Sequence	(0040,A504)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>Mapping Resource	(0008,0105)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Template Identifier	(0040,DB00)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Observation DateTime	(0040,A032)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
Content Sequence	(0040,A730)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>Relationship Type	(0040,A010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Referenced SOP Sequence	(0008,1199)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Referenced SOP Instance UID	(0008,1155)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Value Type	(0040,A040)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

>Text Value	(0040,A160)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>Concept Name Code Sequence	(0040,A043)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>>Code Value	(0008,0100)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Coding Scheme Designator	(0008,0102)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Code Meaning	(0008,0104)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>Referenced SOP Sequence	(0008,1199)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>Continuity Of Content	(0040,A050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Content Template Sequence	(0040,A504)	GENERATED SRC_INSTANCE	CONDITIONAL	ALWAYS			-
>>Mapping Resource	(0008,0105)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>Template Identifier	(0040,DB00)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

A.15.2 - Functional Group Macros - N/A

A.15.3 - Private Modules - N/A

A.15.4 - Coded Values - N/A

A.16 - Encapsulated PDF Storage SOP Class

Table IOD of Created Encapsulated PDF Storage Instances

IE	Module Name	Presence(Module)	Condition	Reference
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Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	Encapsulated Document Series	ALWAYS		Encapsulated Document Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
	SC Equipment	ALWAYS		SC Equipment Module
Encapsulated Document	Encapsulated Document	ALWAYS		Encapsulated Document Module
	SOP Common	ALWAYS		SOP Common Module

[A.16.1 - IOD Specific Modules](#)

Table Encapsulated Document Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Series Date	(0008,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Time	(0008,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Modality	(0008,0060)	GENERATED	ALWAYS	ALWAYS			-
Series Description	(0008,103E)	GENERATED	CONDITIONAL	ALWAYS	Reports		Reports
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			-
Performed Procedure Step Start Date	(0040,0244)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Start Time	(0040,0245)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step ID	(0040,0253)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Description	(0040,0254)	GENERATED	CONDITIONAL	ALWAYS			-

Performed Protocol Code Sequence	(0040,0260)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	GENERATED	CONDITIONAL	ALWAYS			-
>Context Group Local Version	(0008,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Context Group Extension Flag	(0008,010B)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Encapsulated Document Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Content Date	(0008,0023)	GENERATED	ALWAYS	CONDITIONAL			-
Acquisition DateTime	(0008,002A)	GENERATED	ALWAYS	CONDITIONAL			-
Content Time	(0008,0033)	GENERATED	ALWAYS	CONDITIONAL			-
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			-
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS	YES		-
Concept Name Code Sequence	(0040,A043)	GENERATED	ALWAYS	CONDITIONAL			-
Document Title	(0042,0010)	GENERATED	ALWAYS	CONDITIONAL			-
Encapsulated Document	(0042,0011)	GENERATED	ALWAYS	ALWAYS			-
MIME Type of Encapsulated Document	(0042,0012)	GENERATED	ALWAYS	ALWAYS	Application/pdf		-
Source Instance Sequence	(0042,0013)	GENERATED	CONDITIONAL	ALWAYS			-
>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-

A.16.2 - Functional Group Macros - N/A

A.16.3 - Private Modules - N/A

A.16.4 - Coded Values - N/A

A.17 - Positron Emission Tomography Image Storage SOP Class

Table IOD of Created Positron Emission Tomography Image Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		<i>Patient Module</i>
Study	General Study	ALWAYS		<i>General Study Module</i>
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Patient Study Module</i>
Series	General Series	ALWAYS		<i>General Series Module</i>
	PET Series	ALWAYS		<i>PET Series Module</i>
	PET Isotope	ALWAYS		<i>PET Isotope Module</i>
	PET Multi-gated Acquisition	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>PET Multi-gated Acquisition Module</i>
	NM/PET Patient Orientation	ALWAYS		<i>NM/PET Patient Orientation Module</i>
Frame of Reference	Frame of Reference	ALWAYS		<i>Frame of Reference Module</i>
Equipment	General Equipment	ALWAYS		<i>General Equipment Module</i>
Acquisition	General Acquisition	ALWAYS		<i>General Acquisition</i>
Image	General Image	ALWAYS		<i>General Image Module</i>
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>General Reference Module</i>
	Image Plane	ALWAYS		<i>Image Plane Module</i>
	Image Pixel	ALWAYS		<i>Image Pixel Module</i>
	PET Image	ALWAYS		<i>PET Image Module</i>
	Overlay Plane	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>Overlay Plane Module</i>
	VOI LUT	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	<i>VOI LUT Module</i>

	Acquisition Context	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Acquisition Context Module
	SOP Common	ALWAYS		SOP Common Module

A.17.1 - IOD Specific Modules

Table PET Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Series Date	(0008,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Time	(0008,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Start Condition	(0018,0073)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Start Condition Data	(0018,0074)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Termination Condition Data	(0018,0075)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reconstruction Diameter	(0018,1100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Field of View Shape	(0018,1147)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Field of View Dimension(s)	(0018,1149)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Collimator Type	(0018,1181)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Corrected Image	(0028,0051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of R-R Intervals	(0054,0061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Time Slots	(0054,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Slices	(0054,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Type of Detector Motion	(0054,0202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Type	(0054,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Units	(0054,1001)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Counts Source	(0054,1002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Randoms Correction Method	(0054,1100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Attenuation Correction Method	(0054,1101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Decay Correction	(0054,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reconstruction Method	(0054,1103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scatter Correction Method	(0054,1105)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Axial Mash	(0054,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Coincidence Window Width	(0054,1210)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table PET Isotope Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Radiopharmaceutical Information Sequence	(0054,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Half Life	(0018,1075)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Positron Fraction	(0018,1076)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Total Dose	(0018,1074)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical	(0018,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Start Time	(0018,1072)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Volume	(0018,1071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Code Sequence	(0054,0300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

>Radiopharmaceutical Code Sequence	(0054,0304)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervention Drug Information Sequence	(0018,0026)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table PET Multi-Gated Acquisition Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Beat Rejection Flag	(0018,1080)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Source or Type	(0018,1061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
PVC Rejection	(0018,1085)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Skip Beats	(0018,1086)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Heart Rate	(0018,1088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Cardiac Framing Type	(0018,1064)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table NM/PET Patient Orientation Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Patient Gantry Relationship Code Sequence	(0054,0414)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Patient Orientation Code Sequence	(0054,0410)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Patient Orientation Modifier Code Sequence	(0054,0412)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Meaning	(0008,0104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Code Value	(0008,0100)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Coding Scheme Designator	(0008,0102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Frame of Reference Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Frame of Reference UID	(0020,0052)	GENERATED	ALWAYS	ALWAYS			-
Position Reference Indicator	(0020,1040)	GENERATED	ALWAYS	CONDITIONAL			-

Table Image Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Slice Thickness	(0018,0050)	GENERATED	ALWAYS	CONDITIONAL			-
Image Position (Patient)	(0020,0032)	GENERATED	ALWAYS	ALWAYS			-
Image Orientation (Patient)	(0020,0037)	GENERATED	ALWAYS	ALWAYS			-
Pixel Spacing	(0028,0030)	GENERATED	ALWAYS	ALWAYS			-
Slice Location	(0020,1041)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Planar Configuration	(0028,0006)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Rows	(0028,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Columns	(0028,0011)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Pixel Aspect Ratio	(0028,0034)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Representation	(0028,0103)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
Smallest Image Pixel Value	(0028,0106)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Largest Image Pixel Value	(0028,0107)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Descriptor	(0028,1101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Green Palette Color Lookup Table Descriptor	(0028,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Descriptor	(0028,1103)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Red Palette Color Lookup Table Data	(0028,1201)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Green Palette Color Lookup Table Data	(0028,1202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Blue Palette Color Lookup Table Data	(0028,1203)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Pixel Data	(7FE0,0010)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-

Table PET Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	DERIVED/ SECONDARY		-
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS			-
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	GENERATED	ALWAYS	ALWAYS			-
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Rescale Intercept	(0028,1052)	GENERATED	ALWAYS	ALWAYS			-
Rescale Slope	(0028,1053)	GENERATED	ALWAYS	ALWAYS			-
Acquisition Date	(0008,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Time	(0008,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Actual Frame Duration	(0018,1242)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Decay Factor	(0054,1321)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Dose Calibration Factor	(0054,1322)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Reference Time	(0054,1300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Time	(0018,1060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Time	(0018,1063)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Low R-R Value	(0018,1081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
High R-R Value	(0018,1082)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Lossy Image Compression	(0028,2110)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image Index	(0054,1330)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Nominal Interval	(0018,1062)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Intervals Acquired	(0018,1083)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Intervals Rejected	(0018,1084)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Primary (Prompts) Counts Accumulated	(0054,1310)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Secondary Counts Accumulated	(0054,1311)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Sensitivity Factor	(0054,1320)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scatter Fraction Factor	(0054,1323)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Dead Time Factor	(0054,1324)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
View Code Sequence	(0054,0220)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Progression Direction	(0054,0500)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Anatomic Region Sequence	(0008,2218)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Overlay Plane Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Overlay Rows	(60xx,0010)	GENERATED	ALWAYS	ALWAYS			-
Overlay Columns	(60xx,0011)	GENERATED	ALWAYS	ALWAYS			-
Overlay Description	(60xx,0022)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Type	(60xx,0040)	GENERATED	ALWAYS	ALWAYS			-
Overlay Subtype	(60xx,0045)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Origin	(60xx,0050)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bits Allocated	(60xx,0100)	GENERATED	ALWAYS	ALWAYS			-
Overlay Bit Position	(60xx,0102)	GENERATED	ALWAYS	ALWAYS			-
ROI Area	(60xx,1301)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Mean	(60xx,1302)	GENERATED	CONDITIONAL	ALWAYS			-
ROI Standard Deviation	(60xx,1303)	GENERATED	CONDITIONAL	ALWAYS			-
Overlay Label	(60xx,1500)	GENERATED	CONDITIONAL	ALWAYS			-

Overlay Data	(60xx,3000)	GENERATED	CONDITIONAL	ALWAYS			-
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Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	GENERATED	ALWAYS	ALWAYS			-
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			-
Window Center & Width Explanation	(0028,1055)	GENERATED	CONDITIONAL	ALWAYS			-
VOI LUT Sequence	(0028,3010)	GENERATED	CONDITIONAL	ALWAYS			-

Table Acquisition Context Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Acquisition Context Sequence	(0040,0555)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

A.17.2 - Functional Group Macros - N/A

A.17.3 - Private Modules - N/A

A.17.4 - Coded Values - N/A

A.18 - RT Structure Set Storage SOP Class

Table IOD of Created RT Structure Set Storage SOP Class Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	RT Series	ALWAYS		RT Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
Structure Set	Structure Set	ALWAYS		Structure Set Module
	ROI Contour	ALWAYS		ROI Contour Module
	RT ROI Observations	ALWAYS		RT ROI Observations Module
	Approval	ALWAYS		Approval Module
	SOP Common	ALWAYS		SOP Common Module

A.18.1 - IOD Specific Modules

Table RT Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	GENERATED	ALWAYS	ALWAYS			-
Series Date	(0008,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Time	(0008,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Description	(0008,103E)	GENERATED	CONDITIONAL	ALWAYS			-
Series Description Code Sequence	(0008,103F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Operators' Name	(0008,1070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Request Attributes Sequence	(0040,0275)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Start Date	(0040,0244)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Start Time	(0040,0245)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step ID	(0040,0253)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Procedure Step Description	(0040,0254)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Performed Protocol Code Sequence	(0040,0260)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Comments on the Performed Procedure Step	(0040,0280)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
Series Number	(0020,0011)	GENERATED	ALWAYS	CONDITIONAL			-

Table Structure Set Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Instance Number	(0020,0013)	GENERATED	CONDITIONAL	ALWAYS			-
Structure Set Label	(3006,0002)	GENERATED USER	ALWAYS	ALWAYS			-
Structure Set Name	(3006,0004)	GENERATED USER	CONDITIONAL	ALWAYS			-
Structure Set Description	(3006,0006)	GENERATED USER	CONDITIONAL	ALWAYS			-

Structure Set Date	(3006,0008)	GENERATED	ALWAYS	CONDITIONAL			-
Structure Set Time	(3006,0009)	GENERATED	ALWAYS	CONDITIONAL			-
Referenced Frame of Reference Sequence	(3006,0010)	GENERATED	CONDITIONAL	ALWAYS			-
>Frame of Reference UID	(0020,0052)	GENERATED	ALWAYS	ALWAYS			-
>RT Referenced Study Sequence	(3006,0012)	GENERATED	CONDITIONAL	ALWAYS			-
>>RT Referenced Series Sequence	(3006,0014)	GENERATED	ALWAYS	ALWAYS			-
>>>Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
>>>>Contour Image Sequence	(3006,0016)	GENERATED	ALWAYS	ALWAYS			-
>>>>>Referenced Frame Number	(0008,1160)	GENERATED	CONDITIONAL	ALWAYS			-
>>>>>Referenced Segment Number	(0062,000B)	GENERATED	CONDITIONAL	ALWAYS			-
>>>>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>>>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>Frame of Reference Relationship Sequence	(3006,00C0)	GENERATED	CONDITIONAL	ALWAYS			-
Structure Set ROI Sequence	(3006,0020)	GENERATED	CONDITIONAL	ALWAYS			-
>Derivation Code Sequence	(0008,9215)	GENERATED	CONDITIONAL	ALWAYS			-
>ROI Number	(3006,0022)	GENERATED	ALWAYS	ALWAYS			-
>Referenced Frame of Reference UID	(3006,0024)	GENERATED	ALWAYS	ALWAYS			-

>ROI Name	(3006,0026)	GENERATED	ALWAYS	CONDITIONAL			-
>ROI Description	(3006,0028)	GENERATED	CONDITIONAL	ALWAYS			-
>ROI Volume	(3006,002C)	GENERATED	CONDITIONAL	ALWAYS			-
>ROI Generation Algorithm	(3006,0036)	GENERATED	ALWAYS	CONDITIONAL			-
>ROI Generation Description	(3006,0038)	GENERATED	CONDITIONAL	ALWAYS			-

Table ROI Contour Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
ROI Contour Sequence	(3006,0039)	GENERATED	ALWAYS	ALWAYS			-
>Referenced ROI Number	(3006,0084)	GENERATED	ALWAYS	ALWAYS			-
>ROI Display Color	(3006,002A)	GENERATED	CONDITIONAL	ALWAYS			-
>Contour Sequence	(3006,0040)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Number	(3006,0048)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Image Sequence	(3006,0016)	GENERATED	CONDITIONAL	ALWAYS			-
>>>Referenced SOP Class UID	(0008,1150)	GENERATED	ALWAYS	ALWAYS			-
>>>Referenced SOP Instance UID	(0008,1155)	GENERATED	ALWAYS	ALWAYS			-
>>>Referenced Frame Number	(0008,1160)	GENERATED	CONDITIONAL	ALWAYS			-
>>>Referenced Segment Number	(0062,000B)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Geometric Type	(3006,0042)	GENERATED	ALWAYS	ALWAYS			-
>>Contour Slab Thickness	(3006,0044)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Offset Vector	(3006,0045)	GENERATED	CONDITIONAL	ALWAYS			-
>>Number of Contour Points	(3006,0046)	GENERATED	ALWAYS	ALWAYS			-
>>Attached Contours	(3006,0049)	GENERATED	CONDITIONAL	ALWAYS			-

>>Contour Data	(3006,0050)	GENERATED	ALWAYS	ALWAYS			-
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Table RT ROI Observations Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
RT ROI Observations Sequence	(3006,0080)	GENERATED	ALWAYS	ALWAYS			-
>Observation Number	(3006,0082)	GENERATED	ALWAYS	ALWAYS			-
>Referenced ROI Number	(3006,0084)	GENERATED	ALWAYS	ALWAYS			-
>ROI Observation Label	(3006,0085)	GENERATED	CONDITIONAL	ALWAYS			-
>RT ROI Identification Code Sequence	(3006,0086)	GENERATED	CONDITIONAL	ALWAYS			-
>ROI Observation Description	(3006,0088)	GENERATED	CONDITIONAL	ALWAYS			-
>RT Related ROI Sequence	(3006,0030)	GENERATED	CONDITIONAL	ALWAYS			-
>>Referenced ROI Number	(3006,0084)	GENERATED	ALWAYS	ALWAYS			-
>>RT ROI Relationship	(3006,0033)	GENERATED	CONDITIONAL	ALWAYS			-
>Related RT ROI Observations Sequence	(3006,00A0)	GENERATED	CONDITIONAL	ALWAYS			-
>>Observation Number	(3006,0082)	GENERATED	ALWAYS	ALWAYS			-
>RT ROI Interpreted Type	(3006,00A4)	GENERATED	ALWAYS	CONDITIONAL			-
>ROI Interpreter	(3006,00A6)	GENERATED	ALWAYS	CONDITIONAL			-
>Material ID	(300A,00E1)	GENERATED	CONDITIONAL	ALWAYS			-
>ROI Physical Properties Sequence	(3006,00B0)	GENERATED	CONDITIONAL	ALWAYS			-
>>ROI Physical Property	(3006,00B2)	GENERATED	ALWAYS	ALWAYS			-
>>ROI Elemental Composition Sequence	(3006,00B6)	GENERATED	CONDITIONAL	ALWAYS			-

>>>ROI Elemental Composition Atomic Number	(3006,00B7)	GENERATED	ALWAYS	ALWAYS			-
>>>ROI Elemental Composition Atomic Mass Fraction	(3006,00B8)	GENERATED	ALWAYS	ALWAYS			-
>>ROI Physical Property Value	(3006,00B4)	GENERATED	ALWAYS	ALWAYS			-

Table Approval Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Approval Status	(300E,0002)	GENERATED	ALWAYS	ALWAYS			Mirada

A.18.2 - Functional Group Macros - N/A

A.18.3 - Private Modules - N/A

A.18.4 - Coded Values - N/A

A.19 - Segmentation Storage SOP Class

Table IOD of Created Segmentation Storage SOP Class Instances

IE	Module Name	Presence (Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
	Patient Study	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Patient Study Module
Series	General Series	ALWAYS		General Series Module
	Segmentation Series	ALWAYS		Segmentation Series Module
Equipment	General Equipment	ALWAYS		General Equipment Module
	Enhanced General Equipment	ALWAYS		Enhanced General Equipment Module
Image	General Image	ALWAYS		General Image Module
	General Reference	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Reference Module
	Image Pixel	ALWAYS		Image Pixel Module
	Segmentation Image	ALWAYS		Segmentation Image Module
	Multi-frame Functional Groups	ALWAYS		Multi-frame Functional Groups Module
	Multi-frame Dimension	ALWAYS		Multi-frame Dimension Groups Module
	SOP Common	ALWAYS		SOP Common Module

A.19.1 - IOD Specific Modules

Table Segmentation Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	FIXED	ALWAYS	ALWAYS	SEG		-
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			-

Table Enhanced General Equipment Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Manufacturer	(0008,0070)	FIXED	ALWAYS	ALWAYS	Philips		-
Manufacturer's Model Name	(0008,1090)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Device Serial Number	(0018,1000)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Software Version(s)	(0018,1020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Image Pixel Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	FIXED	ALWAYS	ALWAYS	1		-
Photometric Interpretation	(0028,0004)	FIXED	ALWAYS	ALWAYS	MONOCHROME2		-
Rows	(0028,0010)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Columns	(0028,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	1		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	1		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Table Segmentation Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	FIXED	ALWAYS	ALWAYS	DERIVED\PRIMARY		-
Instance Number	(0020,0013)	FIXED	ALWAYS	ALWAYS	1		-
Samples per Pixel	(0028,0002)	FIXED	ALWAYS	ALWAYS	1		-
Photometric Interpretation	(0028,0004)	FIXED	ALWAYS	ALWAYS	MONOCHROME2		-

Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	1		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	1		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		-
Lossy Image Compression	(0028,2110)	GENERATED	ALWAYS	ALWAYS			-
Segmentation Type	(0062,0001)	FIXED	ALWAYS	ALWAYS	BINARY		-
Segment Sequence	(0062,0002)	GENERATED	ALWAYS	ALWAYS			-
>Segmented Property Category Code Sequence	(0062,0003)	GENERATED	ALWAYS	ALWAYS			-
>>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>> Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>> Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
> Segment Number	(0062,0004)	GENERATED	ALWAYS	ALWAYS			-
> Segment Label	(0062,0005)	GENERATED	ALWAYS	ALWAYS			-
>Segment Algorithm Type	(0062,0008)	GENERATED	ALWAYS	ALWAYS			-
>Segmented Property Type Code Sequence	(0062,000F)	GENERATED	ALWAYS	ALWAYS			-
>> Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS			-
>> Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
>> Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-
Content Label	(0070,0080)	GENERATED	ALWAYS	ALWAYS			-
Content Description	(0070,0081)	GENERATED	ALWAYS	CONDITIONAL			-

Table Multi-frame Functional Groups Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			-
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			-
Instance Number	(0020,0013)	FIXED	ALWAYS	ALWAYS	1		-
Number of Frames	(0028,0008)	GENERATED	ALWAYS	ALWAYS			-
Shared Functional Groups Sequence	(5200,9229)	GENERATED	ALWAYS	ALWAYS			See chapter A.20 Functional Group Macros
Per-Frame Functional Group Sequence	(5200,9230)	GENERATED	ALWAYS	ALWAYS			See chapter A.20 Functional Group Macros

Table Multi-frame Dimension Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Dimension Organization Sequence	(0020,9221)	GENERATED	ALWAYS	ALWAYS			-
> Dimension Organization UID	(0020,9164)	GENERATED	ALWAYS	ALWAYS			-
Dimension Index Sequence	(0020,9222)	GENERATED	ALWAYS	ALWAYS			-
> Dimension Organization UID	(0020,9164)	GENERATED	ALWAYS	ALWAYS			-
> Dimension Index Pointer	(0020,9165)	FIXED	ALWAYS	ALWAYS	0062000B 00200032		-
> Functional Group Pointer	(0020,9167)	FIXED	ALWAYS	ALWAYS	0062000A 00200032		-
> Dimension Description Label	(0020,9421)	FIXED	ALWAYS	ALWAYS	DicomReferencedSegmentNumber DicomImagePositionPatient		-
> Dimension Organization UID	(0020,9164)	GENERATED	ALWAYS	ALWAYS			-

A.19.2 - Functional Group Macros

Table Pixel Measures Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
> Pixel Measures Sequence	(0028,9110)	GENERATED	ALWAYS	ALWAYS			-
>>Slice Thickness	(0018,0050)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Spacing Between Slices	(0018,0088)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Pixel Spacing	(0028,0030)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Plane Position (Patient) Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
>Plane Position Sequence	(0020,9113)	GENERATED	ALWAYS	ALWAYS			-
>>Image Position (Patient)	(0020,0032)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Plane Orientation (Patient) Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Plane Orientation Sequence	(0020,9116)	GENERATED	ALWAYS	ALWAYS			-
>Image Orientation (Patient)	(0020,0037)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Derivation Image Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
>Derivation Image Sequence	(0008,9124)	GENERATED	ALWAYS	ALWAYS			Only present in Per-frame

							Functional group sequence
>>Source Image Sequence	(0008,2112)	GENERATED	ALWAYS	ALWAYS			-
>>>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>>Purpose of Reference Code Sequence	(0040,A170)	GENERATED	ALWAYS	ALWAYS			-
>>>>Code Value	(0008,0100)	FIXED	ALWAYS	ALWAYS	121322		-
>>>>Coding Scheme Designator	(0008,0102)	FIXED	ALWAYS	ALWAYS	DCM		-
>>>>Code Meaning	(0008,0104)	FIXED	ALWAYS	ALWAYS	Source image for image processing operations		-

Table Frame Content Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
>Frame Content Sequence	(0020,9111)	GENERATED	ALWAYS	ALWAYS			Only present in Per-frame Functional group sequence
>>Dimension Index Values	(0020,9157)	GENERATED	ALWAYS	ALWAYS			-

Table Segmentation Functional Group Macro

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
>Segment Identification Sequence	(0062,000A)	GENERATED	ALWAYS	ALWAYS			-

>>Referenced Segment Number	(0062,000B)	GENERATED	ALWAYS	ALWAYS			
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A.19.3 - Private Modules - N/A

A.19.4 - Coded Values - N/A

B Structured Report Content Encoding

B.1 Key Object Selection SR (TID 2010)

Table B-1 shows the encoding of content of a DICOM Key Object Selection SR (TID 2010).

Table B-1: Key Object Selection SR (TID 2010)

NL	Rel with Parent	VT	Concept Name	Source	Presence of Content Item	Values	TID	Comments
		CONTAINER	DCID 7010 "Key Object Selection Document Title"	USER	ALWAYS	See table B-2	2010	
>	CONTAINS	TEXT	(113012, DCM, "Key Object Description")	USER	ALWAYS		2010	
>>	CONTAINS	IMAGE		GENERATED	ALWAYS		2010	

B.1.1 Code sets

Table B-2: Key Object Selection SR – Document Title Codes

Coding Scheme Designator	Code Value	Code Meaning
DCM	113000	Of Interest
DCM	113004	For teaching
DCM	113003	For Surgery
DCM	113020	For Report
DCM	113008	For Collaboration
DCM	113005	For Conference
DCM	113007	For Patient
DCM	113006	For Therapy
DCM	113002	For Referring Physician
DCM	113009	For Research

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