

DICOM Conformance Statement

Application Annex:

NM 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

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3. Introduction

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

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

- AutoSPECT Pro
- NM Whole Body
- NM Cardiac
- NM Endocrine
- NM Esophagus
- NM Gastro Intestinal
- NM Renal
- NM Hepatobiliary
- NM Viewer
- NM Lung
- Hybrid Calibration
- NM NU-1 NEMATools
- NM QCTools
- Automatic Registration
- JETPack
- AutoQuant*
- Corridor 4DM Analysis*
- Emory cardiac ToolBox (ECTB)*
- Neuro-Q*
- QBS*
- Mirada*

Note*: AutoQuant, Corridor 4DM analysis, Emory cardiac ToolBox (ECTB), Neuro-Q, QBS and Mirada are 3rd party applications 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 NM applications

A Information Object Definitions (IODs)

This section provides the detailed content for all the SOP Instances natively created by NM 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
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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			-
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Common Table General Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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
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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
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 - 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	ALWAYS	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.2.1 - IOD Specific Modules

Table Frame Of Reference

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

Table Image Plane

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

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)	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 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)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table MR Image

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			-
Scanning Sequence	(0018,0020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Sequence Variant	(0018,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scan Options	(0018,0022)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
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			-
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			-
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			-
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			-

Table Overlay Plane

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

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			-
Window Center & Width Explanation	(0028,1055)	GENERATED	CONDITIONAL	ALWAYS			-

A.2.2 - Functional Group Macros - N/A

A.2.3 - Private Modules - N/A

A.2.4 - Coded Values - N/A

A.3 - 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
	SC Image	ALWAYS		SC Image 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.3.1 - IOD Specific Modules

Table Image Pixel

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Samples per Pixel	(0028,0002)	FIXED	ALWAYS	ALWAYS	1/3		"1" for MONOCHROME 2 images and value = "3" for RGB images.
Photometric Interpretation	(0028,0004)	USER	ALWAYS	ALWAYS	MONOCHROME 2/ RGB		-
Rows	(0028,0010)	USER	ALWAYS	ALWAYS			-
Columns	(0028,0011)	USER	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	8		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	8		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	7		-
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-

Planar Configuration	(0028,0006)	FIXED	CONDITIONAL	ALWAYS	0		Only for RGB images.
Pixel Aspect Ratio	(0028,0034)	GENERATED	ALWAYS	ALWAYS			-
Smallest Image Pixel Value	(0028,0106)	GENERATED	ALWAYS	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	GENERATED	ALWAYS	ALWAYS			-

Table SC Image

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

Table VOI LUT Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Window Center	(0028,1050)	GENERATED	CONDITIONAL	ALWAYS			Only for MONOCHROME 2 images
Window Width	(0028,1051)	GENERATED	CONDITIONAL	ALWAYS			Only for MONOCHROME 2 images

Table Common Instance Reference

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 Class UID	(0008,1150)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Series Instance UID	(0020,000E)	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 - Multi-Frame Grayscale Byte Secondary Capture Image Storage SOP Class

Table IOD of Created Multi-Frame Grayscale Byte 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	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	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
	Cine	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Cine Module
	Multi-frame	ALWAYS		Multi-frame Module
	SC Image	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	SC Image Module
	SC Multi-frame Image	ALWAYS		SC Multi-frame Image Module

	SOP Common	ALWAYS		SOP Common Module
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A.4.1 - 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)	FIXED	ALWAYS	ALWAYS	1		-
Photometric Interpretation	(0028,0004)	USER	ALWAYS	ALWAYS	MONOCHROME 2		-
Rows	(0028,0010)	USER	ALWAYS	ALWAYS			-
Columns	(0028,0011)	USER	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	8		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	8		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	7		-
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-
Pixel Aspect Ratio	(0028,0034)	GENERATED	ALWAYS	ALWAYS			-
Smallest Image Pixel Value	(0028,0106)	GENERATED	ALWAYS	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	GENERATED	ALWAYS	ALWAYS			-

Table Cine Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Preferred Playback Sequencing	(0018,1244)	FIXED	ALWAYS	ALWAYS	0		-
Frame Time	(0018,1063)	GENERATED	ALWAYS	ALWAYS			-

Cine Rate	(0018,0040)	GENERATED	ALWAYS	ALWAYS			-
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Table Multi-frame Module

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

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			-
Contrast/Bolus Administration Route Sequence	(0018,0014)	GENERATED	CONDITIONAL	ALWAYS			-

Table SC Multi-frame Image Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS			-
Presentation LUT Shape	(2050,0020)	FIXED	CONDITIONAL	ALWAYS	IDENTITY		Present only for MONOCHROME 2 Images

A.4.2 - Functional Group Macros - N/A

A.4.3 - Private Modules - N/A

A.4.4 - Coded Values - N/A

A.5 - Multi-frame True Color Secondary Capture Image Storage

Table IOD of Created Multi-frame True Color Secondary Capture Image Storage Instances

IE	Module Name	Presence(Module)	Condition	Reference
Patient	Patient	ALWAYS		Patient Module
Study	General Study	ALWAYS		General Study Module
Series	General Series	ALWAYS		General Series Module
Equipment	General Equipment	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	General Equipment Module
	SC Equipment	ALWAYS		SC Equipment Module
Acquisition	General Acquisition	ALWAYS		General Acquisition Module
Image	General Image	ALWAYS		General Image Module
	Image Pixel	ALWAYS		Image Pixel Module
	Cine	CONDITIONAL	IF PRESENT IN THE SOURCE DATA	Cine Module
	Multi-frame	ALWAYS		Multi-frame Module
	SC Multi-frame Image	ALWAYS		SC Multi-frame Image Module
	SOP Common	ALWAYS		SOP Common Module

A.5.1 - IOD Specific Modules

Table Image Pixel

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Samples per Pixel	(0028,0002)	FIXED	ALWAYS	ALWAYS	3		Only for RGB images
Photometric Interpretation	(0028,0004)	USER	ALWAYS	ALWAYS	RGB		-
Rows	(0028,0010)	USER	ALWAYS	ALWAYS			-
Columns	(0028,0011)	USER	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	8		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	8		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	7		-
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			-
Planar Configuration	(0028,0006)	FIXED	CONDITIONAL	ALWAYS	0		Only for RGB images
Pixel Aspect Ratio	(0028,0034)	GENERATED	ALWAYS	ALWAYS			-
Smallest Image Pixel Value	(0028,0106)	GENERATED	ALWAYS	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	GENERATED	ALWAYS	ALWAYS			-

Table Cine

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Preferred Playback Sequencing	(0018,1244)	FIXED	ALWAYS	ALWAYS	0		-
Recommended Display Frame Rate	(0008,2144)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Delay	(0018,1066)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Frame Time	(0018,1063)	GENERATED	ALWAYS	ALWAYS			-
Cine Rate	(0018,0040)	GENERATED	ALWAYS	ALWAYS			-

Table Multi-Frame

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Number of Frames	(0028,0008)	GENERATED	ALWAYS	ALWAYS			-
Content Date	(0008,0023)	GENERATED	ALWAYS	CONDITIONAL			-
Content Time	(0008,0033)	GENERATED	ALWAYS	CONDITIONAL			-
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			-
Frame Increment Pointer	(0028,0009)	GENERATED	ALWAYS	ALWAYS			-

Table SC Multi-Frame

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS			-
Presentation LUT Shape	(2050,0020)	FIXED	CONDITIONAL	ALWAYS	IDENTITY		Present only for MONOCHROME 2 Images

A.5.2 - Functional Group Macros - N/A

A.5.3 - Private Modules - N/A

A.5.4 - Coded Values - N/A

A.6 - 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	ALWAYS		Patient Study Module

Series	General Series	ALWAYS		General Series Module
	NM/PET Patient Orientation Module	ALWAYS		NM/PET Patient Orientation Module 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
	Acquisition Context	ALWAYS		Acquisition Context Module
	Multi-frame	ALWAYS		Multi-frame Module
	NM Image Pixel	ALWAYS		NM Image Pixel 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
	SOP Common	ALWAYS		SOP Common Module

A.6.1 - IOD Specific Modules

Table NM/PET Patient Orientation Module

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

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)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Photometric Interpretation	(0028,0004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Planar Configuration	(0028,0006)	GENERATED	CONDITIONAL	ALWAYS			-
Rows	(0028,0010)	USER	ALWAYS	ALWAYS			-
Columns	(0028,0011)	USER	ALWAYS	ALWAYS			-
Pixel Aspect Ratio	(0028,0034)	FIXED	CONDITIONAL	ALWAYS			Applied value: (1\1)
Bits Stored	(0028,0101)	GENERATED	ALWAYS	ALWAYS			-
High Bit	(0028,0102)	GENERATED	ALWAYS	ALWAYS			-
Pixel Representation	(0028,0103)	GENERATED	ALWAYS	ALWAYS			Applied value: 0
Smallest Image Pixel Value	(0028,0106)	GENERATED	ALWAYS	ALWAYS			-
Largest Image Pixel Value	(0028,0107)	GENERATED	ALWAYS	ALWAYS			-
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	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			-
>Value Type	(0040,A040)	FIXED	ALWAYS	ALWAYS	CODE		-
>Concept Name Code Sequence	(0040,A043)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Code Value	(0008,0100)	FIXED	ALWAYS	ALWAYS	109055		-

>>Coding Scheme Designator	(0008,0102)	FIXED	ALWAYS	ALWAYS	DCM		-
>>Code Meaning	(0008,0104)	FIXED	ALWAYS	ALWAYS	Patient State		-
>Concept Code Sequence	(0040,A168)	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			-

Table Multi-Frame Module

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

Table NM 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		-
Pixel Spacing	(0028,0030)	GENERATED	ALWAYS	ALWAYS			-
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	16		-
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	16		-
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	15		-

Table NM Multi-frame Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Number of Frames	(0028,0008)	SRC_INSTANCE	ALWAYS	ALWAYS			-
Frame Increment Pointer	(0028,0009)	GENERATED	ALWAYS	ALWAYS			-
Energy Window Vector	(0054,0010)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Energy Windows	(0054,0011)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Detector Vector	(0054,0020)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Detectors	(0054,0021)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Phase Vector	(0054,0030)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Phases	(0054,0031)	GENERATED USER	CONDITIONAL	ALWAYS			-
Rotation Vector	(0054,0050)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Rotations	(0054,0051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
R-R Interval Vector	(0054,0060)	GENERATED	CONDITIONAL	ALWAYS			-
Number of R-R Intervals	(0054,0061)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Time Slot Vector	(0054,0070)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Time Slots	(0054,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Slice Vector	(0054,0080)	GENERATED	CONDITIONAL	ALWAYS			-
Number of Slices	(0054,0081)	GENERATED	CONDITIONAL	ALWAYS			-
Angular View Vector	(0054,0090)	GENERATED	CONDITIONAL	ALWAYS			-
Time Slice Vector	(0054,0100)	GENERATED	CONDITIONAL	ALWAYS			-

Table NM Image Module

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

Counts Accumulated	(0018,0070)	GENERATED	ALWAYS	CONDITIONAL			-
Acquisition Termination Condition	(0018,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Trigger Source or Type	(0018,1061)	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			-
Processing Function	(0018,5020)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Image ID	(0054,0400)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Count Rate	(0018,1243)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Scan Velocity	(0018,1300)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Whole Body Technique	(0018,1301)	GENERATED	CONDITIONAL	ALWAYS			-
Scan Length	(0018,1302)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Corrected Image	(0028,0051)	GENERATED	CONDITIONAL	ALWAYS			-
Lossy Image Compression	(0028,2110)	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 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			-

>Energy Window Name	(0054,0018)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiopharmaceutical Information Sequence	(0054,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical	(0018,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Volume	(0018,1071)	FIXED	CONDITIONAL	ALWAYS	0		-
>Radiopharmaceutical Start Time	(0018,1072)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radiopharmaceutical Stop Time	(0018,1073)	FIXED	ALWAYS	EMPTY			-
>Radionuclide Total Dose	(0018,1074)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radionuclide Code Sequence	(0054,0300)	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			-
>Radiopharmaceutical Code Sequence	(0054,0304)	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			-

Table NM Detector Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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Detector Information Sequence	(0054,0022)	GENERATED	ALWAYS	ALWAYS			-
>Gantry/Detector Tilt	(0018,1120)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radial Position	(0018,1142)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Center of Rotation Offset	(0018,1145)	FIXED	ALWAYS	ALWAYS	0.0		-
>Field of View Shape	(0018,1147)	FIXED	ALWAYS	ALWAYS	RECTANGLE		-
>Field of View Dimension(s)	(0018,1149)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Collimator/grid Name	(0018,1180)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Collimator Type	(0018,1181)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Focal Distance	(0018,1182)	FIXED	ALWAYS	ALWAYS	0		-
>X Focus Center	(0018,1183)	FIXED	ALWAYS	ALWAYS	0.0		-
>Y Focus Center	(0018,1184)	FIXED	ALWAYS	ALWAYS	0.0		-
>Image Position (Patient)	(0020,0032)	GENERATED	ALWAYS	CONDITIONAL			-
>Image Orientation (Patient)	(0020,0037)	GENERATED	ALWAYS	CONDITIONAL			-
>Zoom Factor	(0028,0031)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Zoom Center	(0028,0032)	FIXED	ALWAYS	ALWAYS	0.0		-
>Start Angle	(0054,0200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>View Code Sequence	(0054,0220)	GENERATED	CONDITIONAL	ALWAYS			-
>>View Modifier Code Sequence	(0054,0222)	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)	GENERATED	ALWAYS	ALWAYS			-
>>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS			-

>>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS			-
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Table NM Tomo Acquisition

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Rotation Information Sequence	(0054,0052)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Distance Source to Detector	(0018,1110)	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			-
>Rotation Direction	(0018,1140)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Radial Position	(0018,1142)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Scan Arc	(0018,1143)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Angular Step	(0018,1144)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Actual Frame Duration	(0018,1242)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Number of Frames in Rotation	(0054,0053)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Start Angle	(0054,0200)	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
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			-
Gated Information Sequence	(0054,0062)	GENERATED	CONDITIONAL	ALWAYS			-
>Trigger Time	(0018,1060)	FIXED	ALWAYS	ALWAYS	0		-
>Data Information Sequence	(0054,0063)	GENERATED	ALWAYS	ALWAYS			-
>>Nominal Interval	(0018,1062)	GENERATED	CONDITIONAL	ALWAYS			-
>>Frame Time	(0018,1063)	GENERATED USER	ALWAYS	ALWAYS			-
>>Low R-R Value	(0018,1081)	GENERATED	CONDITIONAL	ALWAYS			-
>>High R-R Value	(0018,1082)	GENERATED	CONDITIONAL	ALWAYS			-
>>Intervals Acquired	(0018,1083)	GENERATED	ALWAYS	ALWAYS			-
>>Intervals Rejected	(0018,1084)	GENERATED	CONDITIONAL	ALWAYS			-
>>Time Slot Information Sequence	(0054,0072)	GENERATED	ALWAYS	ALWAYS			-
>>>Time Slot Time	(0054,0073)	GENERATED	ALWAYS	ALWAYS			-

Table NM Phase Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Phase Information Sequence	(0054,0032)	GENERATED	CONDITIONAL	ALWAYS			-
>Actual Frame Duration	(0018,1242)	GENERATED USER	ALWAYS	ALWAYS			-
>Number of Frames in Phase	(0054,0033)	USER	ALWAYS	ALWAYS			-
>Phase Delay	(0054,0036)	FIXED	ALWAYS	ALWAYS	0		-
>Pause Between Frames	(0054,0038)	FIXED	ALWAYS	ALWAYS	0		-
>Number of Triggers in Phase	(0054,0211)	FIXED	ALWAYS	ALWAYS	0		-

Table NM Reconstruction Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Slice Thickness	(0018,0050)	CONFIGURATION	CONDITIONAL	ALWAYS			-
Spacing Between Slices	(0018,0088)	GENERATED	CONDITIONAL	ALWAYS			-
Convolution Kernel	(0018,1210)	GENERATED	CONDITIONAL	ALWAYS			-
Slice Progression Direction	(0054,0500)	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 - Key Object Selection Document SOP Class](#)

Table IOD of Created Key Object Selection Document 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.7.1 - IOD Specific Modules](#)

Table Key Object Document Series

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			-
Modality	(0008,0060)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Series Number	(0020,0011)	GENERATED	ALWAYS	CONDITIONAL			-
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table Key Object Document

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)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Study Instance UID	(0020,000D)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>Referenced Series Sequence	(0008,1115)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
>>Series Instance UID	(0020,000E)	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			-

Table SR Document Content

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			-
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)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>>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)	GENERATED SRC_INSTANCE	ALWAYS	ALWAYS			-
>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.7.2 - Functional Group Macros - N/A

A.7.3 - Private Modules - N/A

A.7.4 - Coded Values - N/A

A.8 - Encapsulated PDF Storage SOP Class

Table IOD of Created Encapsulated PDF 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	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.8.1 - IOD Specific Modules

Table Encapsulated Document Series Module

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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	1		-
Burned In Annotation	(0028,0301)	GENERATED	ALWAYS	ALWAYS			-
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			-
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A.8.2 - Functional Group Macros - N/A

A.8.3 - Private Modules - N/A

A.8.4 - Coded Values - N/A

A.9 - 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		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
	PET Series	ALWAYS		PET Series Module
	PET Isotope	ALWAYS		PET Isotope Module
	PET Multi-gated Acquisition	CONDITIONAL	If present in the source data	PET Multi-gated Acquisition Module
	NM/PET Patient Orientation	ALWAYS		NM/PET Patient Orientation 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

	PET Image	ALWAYS		PET 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
	Acquisition Context	CONDITIONAL	If present in the source data	Acquisition Context Module
	SOP Common	ALWAYS		SOP Common Module

A.9.1 - IOD Specific Modules

Table PET Series

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Series Date	(0008,0021)	GENERATED	ALWAYS	ALWAYS			-
Series Time	(0008,0031)	GENERATED	ALWAYS	ALWAYS			-
Series Type	(0054,1000)	GENERATED	ALWAYS	ALWAYS			-
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	(0018,0071)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Acquisition Termination Condition Data	(0018,0075)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Attenuation Correction Method	(0054,1101)	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			-
Collimator Type	(0018,1181)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Corrected Image	(0028,0051)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Counts Source	(0054,1002)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Decay Correction	(0054,1102)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Field of View Dimension(s)	(0018,1149)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Field of View Shape	(0018,1147)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Gantry/Detector Tilt	(0018,1120)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Slices	(0054,0081)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of Time Slices	(0054,0101)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Randoms Correction Method	(0054,1100)	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			-
Transverse Mash	(0054,1202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Type of Detector Motion	(0054,0202)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Units	(0054,1001)	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			-
Axial Acceptance	(0054,1200)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Reprojection Method	(0054,1004)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Number of R-R Intervals	(0054,0061)	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			-
Detector Lines of Response Used	(0054,1104)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Gantry/Detector Slew	(0018,1121)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Collimator/grid Name	(0018,1180)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Detector Element Size	(0054,1203)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Secondary Counts Type	(0054,1220)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table PET Isotope

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			-
Radiopharmaceutical Information Sequence	(0054,0016)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiopharmaceutical Start DateTime	(0018,1078)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
Radiopharmaceutical Route	(0018,1070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-

Table PET Multi-Gated Acquisition

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

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

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

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

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	CONDITIONAL	ALWAYS			-
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			-

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 PET Image

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	Value 1: 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

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

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

[A.9.3 - Private Modules - N/A](#)

[A.9.4 - Coded Values - N/A](#)

A.10 - 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
	SOP Common	ALWAYS		SOP Common Module

A.10.1 - IOD Specific Modules

Table RT Series

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
Modality	(0008,0060)	FIXED	ALWAYS	ALWAYS	RTSTRUCT		-
Series Description	(0008,103E)	GENERATED USER	CONDITIONAL	ALWAYS			-
Operators' Name	(0008,1070)	SRC_INSTANCE	SRC_COPY	SRC_COPY			
Series Description Code Sequence	(0008,103F)	SRC_INSTANCE	SRC_COPY	SRC_COPY			-
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			-
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			-

Table Structure Set

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	ALWAYS	ALWAYS			-
Structure Set Name	(3006,0004)	GENERATED	CONDITIONAL	ALWAYS			-
Structure Set Description	(3006,0006)	GENERATED	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

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
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ROI Contour Sequence	(3006,0039)	GENERATED	ALWAYS	ALWAYS			-
>ROI Display Color	(3006,002A)	GENERATED	CONDITIONAL	ALWAYS			-
>Contour Sequence	(3006,0040)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Image Sequence	(3006,0016)	GENERATED	CONDITIONAL	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			-
>>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			-
>>Contour Number	(3006,0048)	GENERATED	CONDITIONAL	ALWAYS			-
>>Attached Contours	(3006,0049)	GENERATED	CONDITIONAL	ALWAYS			-
>>Contour Data	(3006,0050)	GENERATED	ALWAYS	ALWAYS			-

Table ROI Observations

Attribute Name	Tag	Source	Presence of Attribute	Presence of Value	Value	Conditions	Comments
RT ROI Observations Sequence	(3006,0080)	GENERATED	ALWAYS	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			-
>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			-
>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			-

A.10.2 - Functional Group Macros - N/A

A.10.3 - Private Modules - N/A

A.10.4 - 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

Coding Scheme Designator	Code Value	Code Meaning
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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