

**DICOM CONFORMANCE STATEMENT
FOR
MEDICAL LINEAR ACCELERATOR
INTERFERENCE CHECK TOOL
MLI-CHT
V3.0 SP0000J**

CANON MEDICAL SYSTEMS CORPORATION

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1. CONFORMANCE STATEMENT OVERVIEW

Table 1-1 provides an overview of the network services supported by MLI-CHT.

Table 1-1
NETWORK SERVICES

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
RT Plan Storage	No	Yes
RT Structure Set Storage	No	Yes

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3. INTRODUCTION

3.1 REVISION HISTORY

REV.	Date of Issue	Author	Description
-	Dec, 2020	Canon Medical Systems	Initial Version

3.2 AUDIENCE

This document is intended for hospital staff, health system integrators, software designers or implementers.

It is assumed that the reader has a working understanding of DICOM.

3.3 REMARKS

DICOM, by itself, does not guarantee interoperability.

However, the Conformance Statement facilitates a first-level validation for interoperability between different applications supporting the same DICOM functionality.

This Conformance Statement is not intended to replace validation with other DICOM equipment to ensure proper exchange of the intended information.

The scope of this Conformance Statement is to facilitate communication between the product and other vendors' Medical equipment. The Conformance Statement should be read and understood in conjunction with the DICOM Standard [DICOM].

However, by itself, this Conformance Statement does not guarantee the desired interoperability and successful interconnectivity.

The user should be aware of the following important issues:

- Comparison of the different conformance statements is the first step towards assessing the interconnectivity between the product and other equipment.
- Test procedures should be defined to validate the desired level of connectivity.
- The DICOM standard is evolving to meet the future requirements of users. Canon Medical Systems Corporation is actively involved in developing the standard further and therefore reserves the right to make changes to its products or to discontinue them.

3.4 DEFINITIONS, TERMS AND ABBREVIATIONS

Definitions, terms and abbreviations used in this document are defined within the different parts of the DICOM standard.

Abbreviations and terms are as follows:

AE	Application Entity
AET	Application Entity Title
ACSE	Association Control Service Element
CD-R	Compact Disk Recordable
DIMSE	DICOM Message Service Element
DVD	A trademark of the DVD forum that is not an abbreviation
DVD-RAM	DVD-Random Access
FSC	File-Set Creator
FSU	File-Set Updater
FSR	File-Set Reader
IE	Information Entity
IOD	Information Object Definition
MPPS	Modality Performed Procedure Step
MPPSR	Modality Performed Procedure Step Retrieve
MSPS	Modality Scheduled Procedure Step
MWM	Modality Worklist Management
R	Required Key Attribute
O	Optional Key Attribute
PDU	Protocol Data Unit
SCU	Service Class User (DICOM client)
SCP	Service Class Provider (DICOM server)
SOP	Service-Object Pair
U	Unique Key Attribute
UID	Unique Identifier

3.5 REFERENCES

[DICOM] Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3

4. NETWORKING

4.1 IMPLEMENTATION MODEL

4.1.1 Application Data Flow

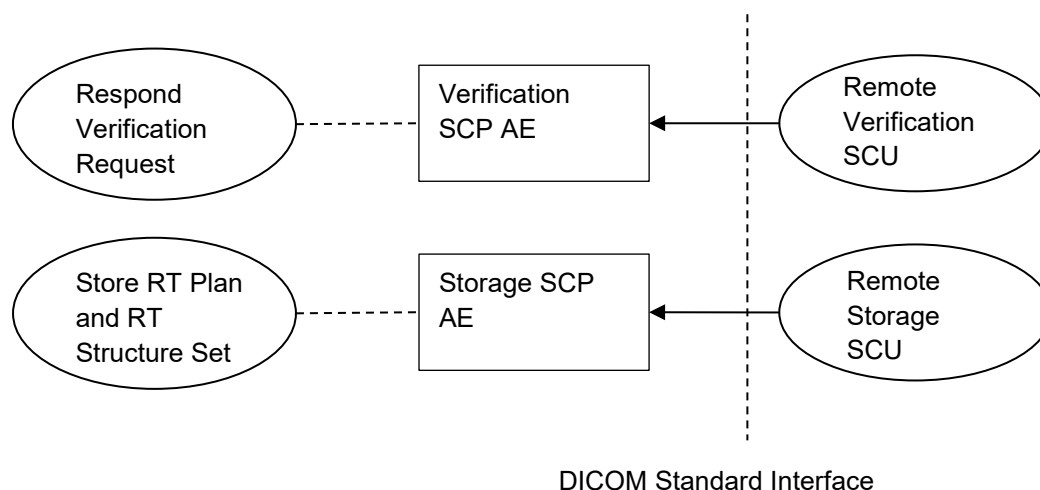


Figure 4.1-1 APPLICATION DATA FLOW DIAGRAM

- The Verification SCP AE can respond to C-ECHO requests.
- The Storage SCP AE can receive incoming DICOM objects and store them to the local disk. It can respond to external Storage Requests as a Service Class Provider (SCP) for C-STORE.

4.1.2 Functional Definition of AEs

4.1.2.1 Functional Definition of Verification SCP AE

The Verification SCP AE waits for another application to connect at the presentation address configured for its Application Entity Title.

The Verification SCP AE will accept Associations with Presentation Contexts for SOP Classes of the Verification Service Classes.

4.1.2.2 Functional Definition of STORAGE SCP AE

The Storage SCP AE waits for another application to connect at the presentation address configured for its Application Entity Title.

The Storage SCP AE will accept Associations with Presentation Contexts for SOP Classes of the Storage Service Classes.

Any objects received on such Presentation Contexts will be stored to the local file system.

4.1.3 Sequencing of Real-World Activities

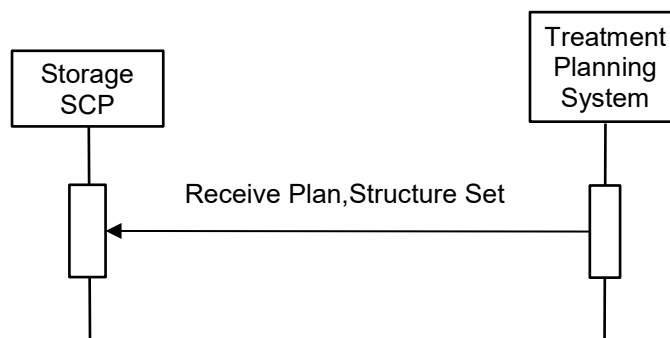


Figure 4.1-2
SEQUENCING CONSTRAINTS

4.2 AE SPECIFICATIONS

4.2.1 Verification SCP Specification

4.2.1.1 SOP Classes

Verification SCP provides Standard Conformance to the following SOP Class(es) :

Table 4.2-1
SOP CLASS(ES) FOR VERIFICATION SCP AE

SOP Class Name	SOP Class UID	SCU	SCP
Verification	1.2.840.10008.1.1	No	Yes

4.2.1.2 Association Policies

4.2.1.2.1 General

The DICOM standard Application Context Name for DICOM 3.0 is always accepted.

Table 4.2-2
DICOM APPLICATION CONTEXTS FOR VERIFICATION SCP

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

4.2.1.2.2 Number of Associations

The Verification SCP AE can support 1 Association at a time.

Table 4.2-3
NUMBER OF ASSOCIATIONS AS A SCP FOR VERIFICATION SCP

Maximum Number of Associations	1
--------------------------------	---

4.2.1.2.3 Asynchronous Nature

The Verification SCP AE will only allow a single outstanding operation on an Association.
Therefore, Verification SCP will not perform asynchronous operations window negotiation.

Table 4.2-4
ASYNCHRONOUS NATURE AS A SCP FOR VERIFICATION SCP

Maximum Number of outstanding asynchronous transactions	1
---	---

4.2.1.2.4 Implementation Identifying Information

Table 4.2-5
DICOM IMPLEMENTATION CLASS AND VERSION FOR VERIFICATION SCP

Implementation Class UID	1.2.392.200036.9116.36.2.1
Implementation Version Name	MLI_RT_DCM_V30

4.2.1.3 Association Initiation Policy

Verification SCP does not initiate associations.

4.2.1.4 Association Acceptance Policy

When Verification SCP accepts an association, it will respond to echo requests.
If the Called AE Title does not match the pre-configured AE Title shared by all the SCPs of the application, the association will be rejected.

4.2.1.4.1 Activity- Receive Echo Request

4.2.1.4.1.1 Description and Sequencing of Activities

The Verification SCP AE accepts Associations only if they have valid Presentation Contexts.
If none of the requested Presentation Contexts are accepted then the Association Request itself is rejected.
It can be configured to only accept Associations with certain hosts (using TCP/IP address) and/or Application Entity Titles.

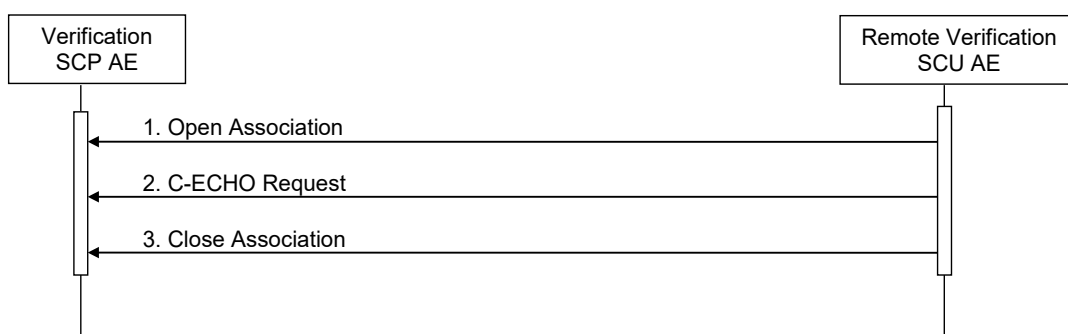


Figure 4.2-1
SEQUENCING OF ACTIVITY – VERIFY

A possible sequence of interactions between the Verification SCP AE and a Remote Verification SCU AE is illustrated in the figure above:

- The Remote Verification SCU AE opens a new association with the Verification SCP AE.
- The Remote Verification SCU AE sends C-ECHO requests. The Verification SCP AE replies with a C-ECHO response (status success).
- The Remote Verification SCU AE closes the Association.

The Verification SCP AE may reject association attempts as shown in the table below. The Result, Source and Reason/Diag columns represent the values returned in the appropriate fields of an ASSOCIATE-RJ PDU. The contents of the Source column are abbreviated to save space and the meaning of the abbreviations are:

- a) 1 – DICOM UL service-user
- b) 2 – DICOM UL service-provider (ACSE related function)

Table 4.2-6
ASSOCIATION REJECTION REASONS

Result	Source	Reason/Diag	Explanation
1 – rejected-permanent	a	7 – called-AE -title-not-recognized	The Association request contained an unrecognized Called AE Title. An Association request with the same parameters will not succeed at a later time unless configuration changes are made. This rejection reason normally occurs when the Association initiator is incorrectly configured and attempts to address the Association acceptor using the wrong AE Title.
1 – rejected-permanent	b	1 – no-reason-given	The Association request could not be parsed. An Association request with the same format will not succeed at a later time.

4.2.1.4.1.2 Accepted Presentation Contexts

Any of the Presentation Contexts shown in the following table are acceptable to the Verification SCP AE.

Table 4.2-7
ACCEPTABLE PRESENTATION CONTEXTS FOR VERIFICATION SCP AE

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name	UID		
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

4.2.1.4.1.3 SOP Specific Conformance for Verification SOP Class

Verification SCP will behave as described in the Table below when generating the C-ECHO response command message.

Table 4.2-8
VERIFICATION SCP AE C-ECHO RESPONSE STATUS ACTIONS

Service Status	Further Meaning	Status Code	Reason
Success	Success	0000	-

4.2.1.4.1.4 Transfer Syntax Selection Policies

Verification SCP prefers explicit Transfer Syntaxes. If offered a choice of Transfer Syntaxes in a Presentation Context, it will apply the following priority to the choice of Transfer Syntax:

- a. first encountered explicit Transfer Syntax,
- b. default Transfer Syntax.

Verification SCP will accept duplicate Presentation Contexts, that is, if it is offered multiple Presentation Contexts, each of which offers acceptable Transfer Syntaxes, it will accept all Presentation Contexts, applying the same priority for selecting a Transfer Syntax for each.

4.2.2 Storage SCP AE Specification

4.2.2.1 SOP Classes

The Storage SCP AE provides Standard Conformance to the following SOP Classes:

Table 4.2-9
SOP CLASSES FOR STORAGE SCP AE

SOP Class Name	SOP Class UID	SCU	SCP
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	No	Yes
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	No	Yes

4.2.2.2 Association Policies

4.2.2.2.1 General

The DICOM standard Application Context Name for DICOM 3.0 is always accepted.

Table 4.2-10
DICOM APPLICATION CONTEXT FOR STORAGE SCP AE

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

4.2.2.2.2 Number of Associations

The Storage SCP AE can support 1 Association at a time.

Table 4.2-11
NUMBER OF ASSOCIATIONS INITIATED FOR STORAGE SCP AE

Maximum number of simultaneous Associations	1
---	---

4.2.2.2.3 Asynchronous Nature

The Storage SCP AE will only allow a single outstanding operation on an Association.
Therefore, Storage SCP will not perform asynchronous operations window negotiation.

Table 4.2-12
ASYNCHRONOUS NATURE AS A SCP FOR STORAGE SCP

Maximum Number of outstanding asynchronous transactions	1
---	---

4.2.2.2.4 Implementation Identifying Information

Table 4.2-13

DICOM IMPLEMENTATION CLASS AND VERSION FOR STORAGE SCP

Implementation Class UID	1.2.392.200036.9116.36.2.1
Implementation Version Name	MLI_RT_DCM_V30

4.2.2.3 Association Initiation Policy

The Storage SCP AE does not initiate Associations.

4.2.2.4 Association Acceptance Policy

4.2.2.4.1 Activity – Store Plans and StructureSets to the local file system

4.2.2.4.1.1 Description and Sequencing of Activities

The Storage SCP AE accepts Associations only if they have valid Presentation Contexts.

If none of the requested Presentation Contexts are accepted then the Association Request itself is rejected.

It can be configured to only accept Associations with certain hosts (using TCP/IP address) and/or Application Entity Titles.

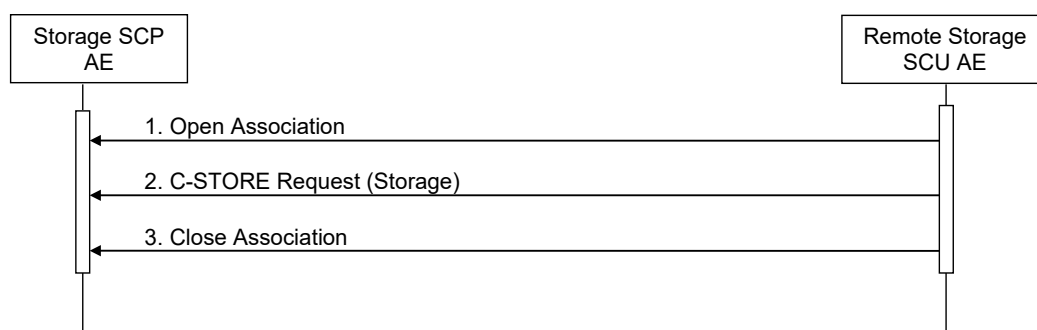


Figure 4.2-2

SEQUENCING OF ACTIVITY – STORE OBJECTS TO THE LOCAL FILE SYSTEM

A possible sequence of interactions between the Storage SCP AE and a Remote Storage SCU AE is illustrated in the Figure above:

1. The Remote Storage SCU AE opens an Association with the Storage SCP AE.
2. The Remote Storage SCU AE sends images to the Storage SCP AE using a Storage request (C-STORE) and the Storage SCP AE replies with a C-STORE response (status success).
3. The Remote Storage SCU AE closes the Association with the Storage SCP AE.

The Storage SCP AE may reject Association attempts as shown in the table below. The Result, Source and Reason/Diag columns represent the values returned in the corresponding fields of an

ASSOCIATE-RJ PDU (see PS 3.8, Section 9.3.4). The following abbreviations are used in the Source column:

- a) 1 – DICOM UL service-user
- b) 2 – DICOM UL service-provider (ACSE related function)

Table 4.2-14
ASSOCIATION REJECTION REASONS

Result	Source	Reason/Diag	Explanation
1 – rejected-permanent	a	7 – called-AE-title-not-recognized	The Association request contained an unrecognized Called AE Title. An Association request with the same parameters will not succeed at a later time unless configuration changes are made. This rejection reason normally occurs when the Association initiator is incorrectly configured and attempts to address the Association acceptor using the wrong AE Title.
1 – rejected-permanent	b	1 – no-reason-given	The Association request could not be parsed. An Association request with the same format will not succeed at a later time.

4.2.2.4.1.2 Accepted Presentation Contexts

Any of the Presentation Contexts shown in the following table are acceptable to the Storage SCP AE.

Table 4.2-15
ACCEPTED PRESENTATION CONTEXTS BY THE STORAGE SCP AE

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name	UID		
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

4.2.2.4.1.3 SOP Specific Conformance for Storage SOP Classes

Storage SCP will behave as described in the table below when generating the C-STORE response command message.

Table 4.2-16

THE STORAGE SCP AE C-STORE RESPONSE STATUS RETURN REASONS

Service Status	Further Meaning	Status Code	Reason
Success	Success	0000	The Composite SOP Instance was successfully received, verified, and stored in the system database.
Refused	Out of Resources	A700	Indicates that there were not enough local resources.
Error	Cannot understand	C000	Indicates that the Storage SCP AE cannot parse the Data Set into Elements.

4.2.2.4.1.4 Transfer Syntax Selection Policies

Storage SCP prefers explicit Transfer Syntaxes. If offered a choice of Transfer Syntaxes in a Presentation Context, it will apply the following priority to the choice of Transfer Syntax:

- a. first encountered explicit Transfer Syntax,
- b. default Transfer Syntax.

Storage SCP will accept duplicate Presentation Contexts, that is, if it is offered multiple Presentation Contexts, each of which offers acceptable Transfer Syntaxes, it will accept all Presentation Contexts, applying the same priority for selecting a Transfer Syntax for each.

4.3 NETWORK INTERFACES

4.3.1 Physical Network Interface

This Product supports a single network interface. One of the following physical network interfaces will be available depending on installed hardware options:

Table 4.3-1

SUPPORTED PHYSICAL NETWORK INTERFACES

Ethernet 1000baseT
Ethernet 100baseT
Ethernet 10baseT

4.3.2 Additional Protocols

None.

4.4 CONFIGURATION

4.4.1 AE Title/Presentation Address Mapping

4.4.1.1 Local AE Titles

The mapping from AE Title to ports is configurable and set at the time of installation by Installation Personnel.

Table 4.4-1

AE TITLE CONFIGURATION TABLE

Application Entity	Default AE Title	Default TCP/IP Port
Verification SCP	MLI_RT_DCM_V30	104
Storage SCP	MLI_RT_DCM_V30	104

4.4.1.2 Remote AE Title/Presentation Address Mapping

The AE Title and port number are configurable and set at the time of installation by Installation personnel.

4.4.2 Parameters

Table 4.4-2

CONFIGURATION PARAMETERS TABLE

Parameter	Configurable (Yes/No) [RANGE]	Default Value
General Parameters		
Maximum PDU size as a SCP	Yes [4096-2147483644]	64234
Storage SCP parameters		
Maximum number of simultaneously accepted Associations.	No	1
Waiting time from when a connection request is received to when the message is received.	Yes [1-120]	30 sec

5. MEDIA INTERCHANGE

This product does not support Media Storage.

6. SUPPORT OF CHARACTER SETS

This product supports the following character sets:

- * ISO-IR 6 (default) ISO 646
- * ISO-IR 87 (Japanese) JIS X 0208 (Kanji)

Character set ISO -IR 87 can be set to the tags listed in the table below;

Table 6-1
TAG LISTS FOR ISO-IR 87

Attribute Name	Tag ID	VR
Patient's Name	(0010,0010)	PN

7. SECURITY

This product does not support any specific security measures.

It is assumed that the product is used within a secured environment. It is assumed that a secured environment includes at a minimum:

- a. Firewall or router protections to ensure that only approved external hosts have network access to the product.
- b. Firewall or router protections to ensure that the product only has network access to approved external hosts and services.
- c. Any communication with external hosts and services outside the locally secured environment use appropriate secure network channels (e.g. such as a Virtual Private Network (VPN))

Other network security procedures such as automated intrusion detection may be appropriate in some environments. Additional security features may be established by the local security policy and are beyond the scope of this conformance statement.

8. ANNEXES

8.1 IOD CONTENTS

8.1.1 Created SOP Instances

None.

8.1.2 Usage of Attributes from Received IODs

8.1.2.1 RT Plan Modules

Table 8.1-1
PATIENT'S MODULE

Attribute	Tag	Type	Description
Patient's Name	(0010,0010)	2	Used for patient name. The patient's name is displayed in the order of given name and family name. Range: From 0 to 39 bytes in total for given and family name. If the number of bytes exceeds the above limit, the data cannot be retrieved.
Patient ID	(0010,0020)	2	Used for patient ID. Range: From 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.

Table 8.1-2
GENERAL STUDY MODULE

Attribute Name	Tag	Type	Attribute Description
Study Instance UID	(0020,000D)	1	Not used.

Table 8.1-3
RT SERIES MODULE

Attribute	Tag	Type	Description
Modality	(0008,0060)	1	The value must be RTPLAN. If a mismatch occurs, no action is performed.
Series Instance UID	(0020,000E)	1	Not used.

Table 8.1-4
RT GENERAL EQUIPMENT MODULE

Attribute	Tag	Type	Description
Manufacturer	(0008,0070)	2	Mandatory
Manufacturer's Model Name	(0008,1090)	3	Mandatory

Table 8.1-5
RT GENERAL PLAN MODULE

Attribute	Tag	Type	Description
RT Plan Label	(300A,0002)	1	Used for Plan ID. Range: From 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.
RT Plan Name	(300A,0003)	3	Used for Plan Name. Range: From 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.
RT Plan Geometry	(300A,000C)	1	Not used.
Referenced Structure Set Sequence	(300C,0060)	1C	Not used.
>Referenced SOP Class UID	(0008,1150)	1	Not used.
>Referenced SOP Instance UID	(0008,1155)	1	If the "RT Structure" has already been received, "RT Structure Set" of the matched "SOP Instance UID" is treated as body surface data.

Table 8.1-6
RT FRACTION SCHEME MODULE

Attribute	Tag	Type	Description
Fraction Group Sequence	(300A,0070)	1	Used for fraction information. Maximum number of sequences : 20
>Fraction Group Number	(300A,0071)	1	Used for fraction group number. Range: 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.
>Number of Beams	(300A,0080)	1	Not used.
>Referenced Beam Sequence	(300C,0004)	1C	Used for beam information. Maximum number of sequences : 30
>>Referenced Beam Number	(300C,0006)	1	Indicates the number of "Beam Number (300A,00C0)" used for this "Referenced Beam Sequence".
>Number of Brachy Application Setups	300A,00A0	1	Not used.

Table 8.1-7
RT BEAMS MODULE

Attribute	Tag	Type	Description
Beam Sequence	(300A,00B0)	1	Used for beam information.
>Beam Number	(300A,00C0)	1	Used for beam ID. Range: From 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.
>Beam Name	(300A,00C2)	3	Used for beam name. Range: From 0 to 20 bytes If the number of bytes exceeds the above limit, the data cannot be retrieved.
>Beam Type	(300A,00C4)	1	Used for beam technique. The type must be "STATIC" or "DYNAMIC". If the type is not "STATIC" or "DYNAMIC", the data cannot be retrieved.
>Beam Limiting Device Sequence	(300A,00B6)	1	Not used.
>Number of Compensators	(300A,00E0)	1	Not used.
>Number of Boli	(300A,00ED)	1	Not used.
>Number of Blocks	(300A,00F0)	1	Not used.
>Final Cumulative Meterset Weight	(300A,010E)	1C	Not used.
>Number of Wedges	(300A,00D0)	1	Not used.
>Number of Control Points	(300A,0110)	1	Not used.
>Control Point Sequence	(300A,0111)	1	Used for control point information. Maximum number of sequences : 400
>>Control Point Index	(300A,0112)	1	Used for control point index. Range : 0 to 399 Starting from 0, each time the Control Point is repeated the value should increase by 1.

Attribute	Tag	Type	Description
>> Gantry Angle	(300A,011E)	1C	Used for gantry angle. The second decimal place of the value is rounded. Range: From 0.0 to 359.9 deg If the value is not within the specified range, the data cannot be retrieved.
>> Gantry Rotation Direction	(300A,011F)	1C	Used for gantry rotation direction. The direction should be "CW", "CC", or "NONE". If the direction is not "CW", "CC", or "NONE", data cannot be retrieved.
>> Beam Limiting Device Angle	(300A,0120)	1C	Used for collimator angle. The second decimal place of the value is rounded. Range : From 0.0 to 359.9 deg If the value is not within the specified range, the data cannot be retrieved.
>> Beam Limiting Device Rotation Direction	(300A,0121)	1C	Not used.
>> Patient Support Angle	(300A,0122)	1C	Used for Isocentric Angle. The first value of "Control Point Sequence" is used. The first decimal place of the value is rounded. Range: From 0 to 359 deg If the value is not within the specified range, the data cannot be retrieved.
>> Patient Support Rotation Direction	(300A,0123)	1C	Not used.
>> Table Top Eccentric Angle	(300A,0125)	1C	Not used.
>> Table Top Eccentric Rotation Direction	(300A,0126)	1C	Not used.
>> Table Top Vertical Position	(300A,0128)	2C	Not used.
>> Table Top Longitudinal Position	(300A,0129)	2C	Not used.
>> Table Top Lateral Position	(300A,012A)	2C	Not used.
>> Isocenter Position	(300A,012C)	2C	Used for the isocenter position coordinate of body surface information. The first value of the first "Beam Sequence" of "Control Point Sequence" is used. Three elements are regarded as the component group. The first element, second element, and third element are treated as the X coordinate, Y coordinate, and Z coordinate, respectively.

Table 8.1-8

SOP COMMON MODULE

Attribute	Tag	Type	Description
SOP Class UID	(0008,0016)	1	Not used.
SOP Instance UID	(0008,0018)	1	Not used.
Specific Character Set	(0008,0005)	1C	Not used.

8.1.2.2 RT StructureSet Modules**Table 8.1-9****GENERAL STUDY MODULE**

Attribute Name	Tag	Type	Attribute Description
Study Instance UID	(0020,000D)	1	Not used.

Table 8.1-10**RT SERIES MODULE**

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	1	The value must be RTSTRUCT. If a mismatch occurs, no action is performed.
Series Instance UID	(0020,000E)	1	Not used.

Table 8.1-11**STRUCTURE SET MODULE**

Attribute Name	Tag	Type	Attribute Description
Structure Set Label	(3006,0002)	1	Not used.
Structure Set ROI Sequence	(3006,0020)	1	Referred from "RT ROI Observations Sequence".
>ROI Number	(3006,0022)	1	Number referred from "Referenced ROI Number" of "RT ROI Observations Sequence".
>Referenced Frame of Reference UID	(3006,0024)	1	Not used.

Table 8.1-12
ROI CONTOUR MODULE

Attribute Name	Tag	Type	Attribute Description
ROI Contour Sequence	(3006,0039)	1	Used for body surface data.
>Referenced ROI Number	(3006,0084)	1	Number referred from "Referenced ROI Number" of "RT ROI Observations Sequence".
>Contour Sequence	(3006,0040)	3	Used for contour information. The maximum total number of VM in "ROI Contour Sequence" should be 6,000,000. If the value exceeds the above number, the data cannot be retrieved.
>>Number of Contour Points	(3006,0046)	1	The tripled value of "Number of Contour Points" should match the number of VMs of "Contour Data".
>>Contour Data	(3006,0050)	1	Used for body surface point position. Three elements are regarded as the component group. The first element, second element, and third element are treated as the X coordinate, Y coordinate, and Z coordinate respectively. The second decimal place of the value is rounded. If the value is not within the specified range, the data cannot be retrieved.

Table 8.1-13
RT ROI OBSERVATIONS MODULE

Attribute Name	Tag	Type	Attribute Description
RT ROI Observations Sequence	(3006,0080)	1	Used to judge whether the body surface data has been registered
>Observation Number	(3006,0082)	1	Not used.
>Referenced ROI Number	(3006,0084)	1	When "EXTERNAL" has been registered for "RT ROI Interpreted Type", check the following. * A value matched to "ROI Number" of "Structure Set ROI Sequence" should exist. * A value matched to "Referenced ROI Number" of "ROI Contour Sequence" should exist.
>RT ROI Interpreted Type	(3006,00A4)	2	Used for ROI type check. Should be "EXTERNAL". If a mismatch occurs, the data cannot be retrieved.

Table 8.1-14
SOP COMMON MODULE

Attribute Name	Tag	Type	Attribute Description
SOP Class UID	(0008,0016)	1	Not used.
SOP Instance UID	(0008,0018)	1	“Referenced SOP Instance UID (0008,1155)” of “RT Plan” received from “RT Plan Storage” is referred, and the matched RT Plan is used as the plan data.
Specific Character Set	(0008,0005)	1C	Not used.

8.1.3 Attribute Mapping

Not applicable to this product.

8.1.4 Coerced/Modified Fields

No coercion is performed.

8.2 DATA DICTIONARY OF PRIVATE ATTRIBUTES

Not applicable to this product.

8.3 Coded Terminology and Templates

Not applicable to this product.

8.4 GRAYSCALE IMAGE CONSISTENCY

Not applicable to this product.

8.5 STANDARD EXTENDED/SPECIALIZED/PRIVATE SOP CLASSES

Not applicable to this product.

8.6 PRIVATE TRANSFER SYNTAXES

Not applicable to this product.