# **RS85 Ultrasound System**

# **DICOM Conformance Statement**

Revision 1.0 System Version 1.0

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# 0 COVER PAGE

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# 1 CONFORMANCE STATEMENT OVERVIEW

RS85 implements the necessary DICOM services to download worklists from information systems, save acquired US images and Structured Reports to a network storage device, CD or DVD, print to a networked hardcopy device, query remote AE's for lists of studies or series, retrieve selected series, and inform the information system about the work actually done.

Table 1-1 provides an overview of the network services supported by RS85.

Table 1-1
NETWORK SERVICES

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer		
Ultrasound Image Storage	Yes	Yes
Ultrasound Multi-frame Image Storage	Yes	Yes
Comprehensive SR	Yes	No
Workflow Management		
Modality Worklist	Yes	No
Storage Commitment Push Model	Yes	No
Modality Performed Procedure Step	Yes	No
Print Management		
Basic Grayscale Print Management	Yes	No
Basic Color Print Management	Yes	No
Query/Retrieve		
Study Root Information Model FIND	Yes	No
Study Root Information Model MOVE	Yes	No

Table 1-2 provides an overview of the Media Storage Application Profiles supported by RS85.

Table 1-2
MEDIA SERVICES

Media Storage Application Profile	Write Files (FSC or FSU)	Read Files (FSR)
Compact Disk – Recordable		
STD-US-SC-MF-CDR	Yes	Yes
DVD		
STD-US-SC-MF-DVD	Yes	Yes

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### 3 INTRODUCTION

### 3.1 REVISION HISTORY

Document Version	System Version	Date of Issue	Author	Description
1.0	1.0	October 20, 2017	SAMSUNG MEDISON	Final Text for System 1.0

#### 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 information intended.

The scope of this Conformance Statement is to facilitate communication with SAMSUNG MEDISON and other vendor's Medical equipment. The Conformance Statement should be read and understood in conjunction with the DICOM Standard [DICOM]. However, it is not guaranteed to ensure by itself the desired interoperability and a successful interconnectivity.

The user should be aware of the following important issues:

- The comparison of different conformance statements is the first step towards assessing interconnectivity between SAMSUNG MEDISON and non SAMSUNG MEDISON equipment.
- Test procedures should be defined to validate the desired level of connectivity.
- The DICOM Standard will evolve to meet the users' future requirements. SAMSUNG MEDISON is activity involved in developing the standard further and therefore reserves the right to make changes to its products or to discontinue their delivery.

### 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 DICOM Application Entity
AET Application Entity Title
ASCE Association Control Service Element

CD-R Compact Disk Recordable

FSC File-Set Creator
FSU File-Set Updater
FSR File-Set Reader

IOD (DICOM) Information Object Definition
 ISO International Standard Organization
 MPPS Modality Performed Procedure Step
 MSPS Modality Scheduled Procedure Step

Q/R Query and Retrieve
R Required Key Attribute
O Optional Key Attribute

PDU DICOM Protocol Data Unit

SCU DICOM Service Class User (DICOM client)
SCP DICOM Service Class Provider (DICOM server)

SOP DICOM Service-Object Pair

U Unique Key Attribute

# 3.5 REFERENCES

[DICOM] Digital Imaging and Communications in Medicine (DICOM), NEMA PS 3.1-3.20, 2017

# 4 NETWORKING

# 4.1 IMPLEMENTATION MODEL

# 4.1.1 Application Data Flow

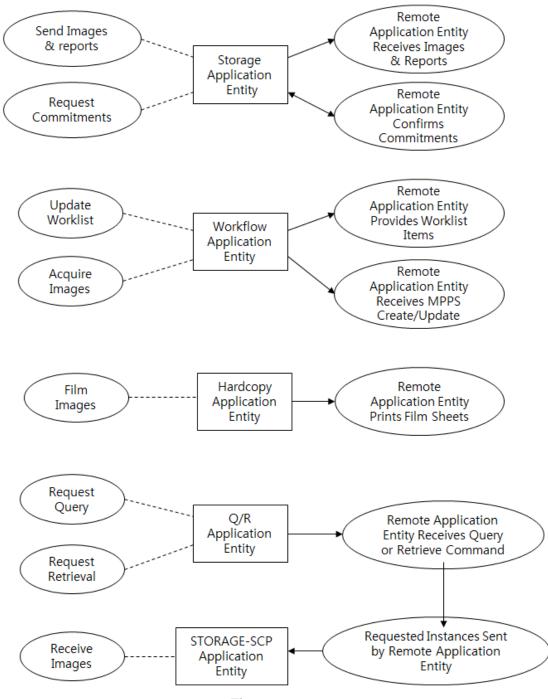


Figure 4.1-1
APPLICATION DATA FLOW DIAGRAM

The Storage Application Entity sends images, Structured Reports and requests Storage Commitment to a remote AE. It is associated with the local real-world activities "Send Images & Reports" and "Request Commitments". Methods to send SOP Instances (images and Structured Reports) depend on user configuration, "Send on end exam", "Send As You Go" or "Manual". "Manual" mode is performed upon user request for each study or for specific images selected. "Send on end exam" mode starts to send SOP Instances at End Exam for each study. "Send As You Go" mode starts when the first SOP Instance is acquired for each study and SOP Instances are transferred immediately after acquisition.

If the remote AE is configured as an archive device, the Storage AE will request Storage Commitment and if a commitment is successfully obtained, it will record this information in the local database and displayed it in the Exam List.

- The Workflow Application Entity receives Worklist information from and sends MPPS information to a remote AE. It is associated with the local real-world activities "Update Worklist" and "Acquire Images". When the "Update Worklist" local real-world activity is performed the Workflow Application Entity queries a remote AE for worklist items and provides the set of worklist items matching the query request. "Update Worklist" is performed as a result of an operator request or can be performed automatically at specific time intervals. When the "Acquire Images" local real-world activity is performed, the Workflow Application Entity creates and updates Modality Performed Procedure Step instances managed by a remote AE. Acquisition of images will result in automated creation of an MPPS Instance. Completion of the MPPS is performed at End Exam for each study.
- The Hardcopy Application Entity prints images on a remote AE (Printer). It is associated with the local real-world activity "Film Images". Methods to film Images depend on user configuration and are equal to the Sending images' of the Storage Application Entity.
- The Q/R Application Entity queries the remote AE for lists of studies or series and retrieves the selected series. It is associated with the local real-world activities 'Query study or series' and 'Retrieve series'. When the 'Query study or series' local real-world activity is performed, the Q/R Application Entity queries a remote AE for a list of studies or series and provides the set of items matching the query request. When the 'Retrieve series' local real-world activity is performed, the Q/R Application Entity retrieves the selected series from the remote AE.
- The STORAGE-SCP Application Entity can receive incoming DICOM images and store them in the system.

### 4.1.2 Functional Definition of AE's

### 4.1.2.1 Functional Definition of Storage Application Entity

The existence of a send-job with associated network destination will activate the Storage AE. An association request is sent to the destination AEs and upon successful negotiation of a Presentation Context, the image or Structured Report transfer is started. If the association cannot be opened, the related send-job is set to an error state and can be restarted by the user via DICOM manager interface or automatically. An automatic retry (retry interval, retry count) can be configured using the Setup/DICOM Menu.

### 4.1.2.2 Functional Definition of Workflow Application Entity

Worklist Update attempts to download a Worklist from a remote node. If the Workflow AE establishes an association to a remote AE, it will transfer all matching worklist items via the open Association. By default, Worklist Update use "US" for Modality, current date for Scheduled Procedure Step Start Date and blank for Scheduled Station AE-Title as query parameters. The results will be displayed in a separate list, which will be cleared with the next Worklist Update.

The Workflow AE performs the creation of an MPPS Instance automatically whenever the first SOP Instance is acquired for each study. The MPPS "Complete" or "Discontinued" states can only be set by "End Exam" for each study.

### 4.1.2.3 Functional Definition of Hardcopy Application Entity

The existence of a print-job will activate the Hardcopy AE. An association is established with the printers and the printer's status determined. If the printer is operating normally, the film sheets described within the print-job will be printed. If the printer is not operating normally, the print-job will set to an error state and can be restarted by the user via DICOM manager interface or automatically. An automatic retry (retry interval, retry count) can be configured using the Setup/DICOM Menu.

### 4.1.2.4 Functional Definition of the Q/R Application Entity

The Query function is activated through the user interface when the user selects a Q/R AE to query (from a preconfigured list), then initiates a query. Queries are performed per the study or series. Retrieval is activated through the user interface when the user selects a series for retrieval. A connection to the Q/R AE is established to initiate and monitor the retrieval and the STORAGE-SCP AE receives the retrieved instances.

# 4.1.2.5 Functional Definition of STORAGE – SCP Application Entity

The STORAGE-SCP AE waits for another application to connect from the presentation address configured for its AE Title. When another application connects, the STORAGE-SCP AE expects it to be a DICOM application. The STORAGE-SCP AE will accept associations with presentation contexts for SOP Classes of the Storage Device. Any images received in such Presentation Contexts will be stored in the system.

# 4.1.3 Sequencing of Real-World Activities

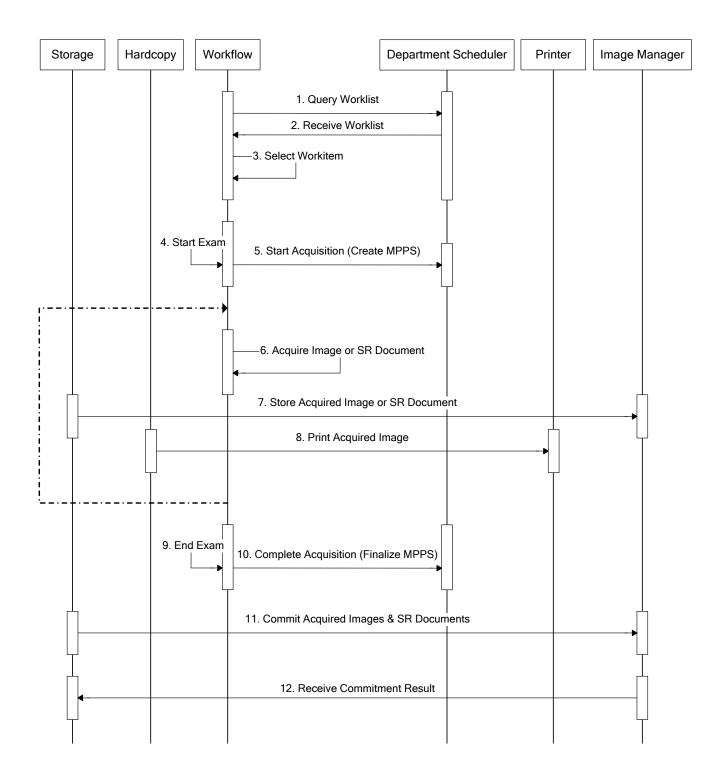


Figure 4.1-2
SEQUENCING CONTRAINTS – SEND AS YOU GO

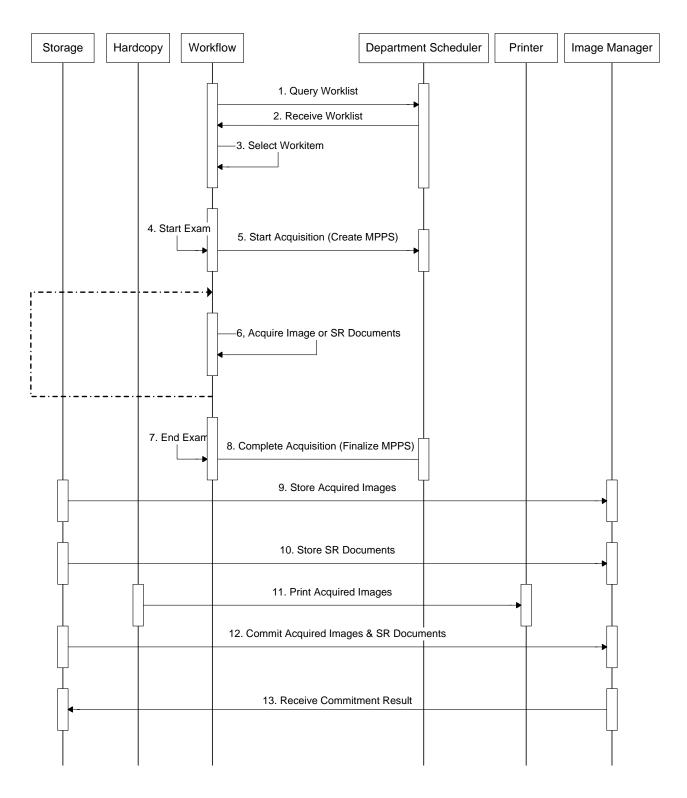


Figure 4.1-3
SEQUENCING CONSTRAINTS – SEND ON END EXAM MODE

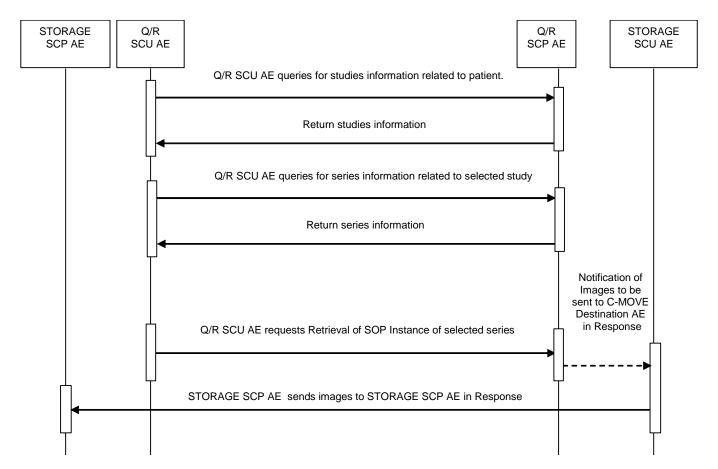


Figure 4.1-4
SEQUENCING CONSTRAINTS – QUERY AND RETRIEVE

Under normal scheduled workflow conditions, the sequencing constraints are illustrated in Figure 4.1-2, Figure 4.1-3 and Figure 4.1-4

Other workflow situations (e.g. unscheduled procedure steps) will have other sequencing constraints. Printing could equally take place after the images acquired have been stored. Printing could be omitted completely if no printer is connected or hardcopies are not required.

# 4.2 AE SPECIFICATIONS

# 4.2.1 Storage Application Entity Specification

# 4.2.1.1 SOP Classes

RS85 provides Standard Conformance to the following SOP Classes:

Table 4.2-1
SOP CLASSES FOR AE STORAGE

SOP Classes	SOP Class UID	SCU	SCP
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	No
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	No
Comprehensive Structured Report Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes	No
Storage Commitment Push Model	1.2.840.10008.1.20.1	Yes	No
Verification	1.2.840.10008.1.1	Yes	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 proposed:

Table 4.2-2

### **DICOM APPLICATION CONTEXT FOR AE STORAGE**

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

# 4.2.1.2.2 Number of Associations

RS85 can initiate one or more Associations at a time for each destination to which a transfer request is being processed in the active job queue list.

Table 4.2-3
NUMBER OF ASSOCIATIONS INITIATED FOR AE STORAGE

Maximum number of simultaneous Associations	Unlimited

RS85 accepts Associations to receive N-EVENT\_REPORT notifications for the Storage Commitment Push Model SOP Class.

# Table 4.2-4 NUMBER OF ASSOCIATIONS ACCEPTED FOR AE STORAGE

Maximum number of simultaneous Associations	Unlimited

### 4.2.1.2.3 Asynchronous Nature

RS85 does not support asynchronous communications (multiple outstanding transactions over a single Association).

Table 4.2-5
ASYNCHRONOUS NATURE AS A SCU FOR AE STORAGE

Maximum number of outstanding asynchronous transactions	1
---	---

# 4.2.1.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 4.2-6
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE STORAGE

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

### 4.2.1.3 Association Initiation Policy

# 4.2.1.3.1 Activity – Send Images and Structured Reports and Requests Commitment

### 4.2.1.3.1.1 Description and Sequencing of Activities

A user can select exams or images and request them to be sent to some destination. Each request is forwarded to the job queue and processed individually. When the "Send on end exam" or "Send As You Go" option is active, Stored images and reports will be forwarded to the network job queue for a pre-configured auto-send target destination automatically. For "Send on end exam" and "Manual" configuration, the system opens an association, sends all images in the study, and closes the association. If "Send As You Go" is selected, the system handles the association with the Storage SCP Server using the following method.

- a. Open an Association when the first image is acquired, and keep association open until the study is closed.
- b. If an error occurs while sending an SOP Instance to the server because there is no longer an open association (server timed-out), attempt to re-establish the association.

c. When the study is closed, close the open association after SOP Instances remained in that study are sent.

If the remote AE is configured as an archive device, the Storage AE will, after all images and reports have been sent, transmit Storage Commitment request (N-ACTION) over a separate Association. The Storage AE can only receive an N-EVENT-REPORT request in a subsequent association initiated by the SCP.

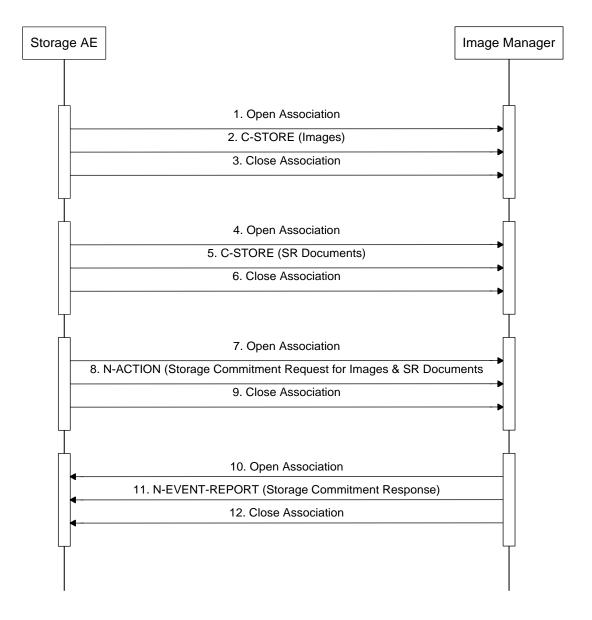


Figure 4.2-1
SEQUENCING OF ACTIVITY - SEND IMAGES AND SR DOCUMENTS

A possible sequence of interactions between the Storage AE and an Image Manager (e.g. a storage or archive

device supporting the Storage and Storage Commitment SOP Classes as an SCP) is illustrated in the figure above.

NOTE: The N-EVENT-REPORT must be sent over a separate association initiated by the Image Manager. (See Section 4.2.1.4)

# 4.2.1.3.1.2 Proposed Presentation Contexts

RS85 is capable of proposing the Presentation Contexts shown in the following table.

Table 4.2-7
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY SEND IMAGES

Presentation Context Table							
Abstract Syntax		Transfer S	Role	Ext.			
Name	UID	Name List	UID List		Neg.		
Ultrasound Image	1.2.840.10008.5.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Storage	1.4.1.1.6.1	JPEG Lossy Baseline	1.2.840.10008.1.2.4				
			.50				
Ultrasound Multi-frame	1.2.840.10008.5.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Image Storage	1.4.1.1.3.1	JPEG Lossy Baseline	1.2.840.10008.1.2.4				
			.50				
Comprehensive	1.2.840.10008.5.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Structured Report	1.4.1.1.88.33						
Storage							
Storage Commitment	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Push Model	20.1	Explicit VR Little Endian	1.2.840.10008.1.2.1				
Verification	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
	1	Explicit VR Little Endian	1.2.840.10008.1.2.1				

Presentation Contexts for Ultrasound Image Storage and Ultrasound Multi-frame Image Storage will be proposed for the "Storage" device configured in Setup/DICOM.

A Presentation Context for Comprehensive Structured Report Storage will be proposed for the "Storage SR" device configured in Setup/DICOM.

A Presentation Context for Storage Commitment Push Model will be proposed for the "SC" device configured in Setup/DICOM.

A Presentation Context for Verification will be proposed when a user press the "Test" button for a configured device.

# 4.2.1.3.1.3 SOP Specific Conformance Image & Comprehensive Structured Report Storage SOP Classes

All Image & Structured Report Storage SOP Classes supported by the Storage AE exhibit the same behavior, except where stated, and are described together in this section.

Table 4.2-8
STORAGE C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has successfully stored the SOP Instance. If all SOP Instances succeed, the job is marked as complete.
Refused	Out of Resources	A700-A7FF	The association is aborted using A-ABORT and the send job is marked as failed. The status is logged.
Error	Data Set does not match SOP Class	A900-A9FF	Same as "Refused" above.
Error	Cannot Understand	C000-CFFF	Same as "Refused" above.
Warning	Coercion of Data Elements	B000	Image transmission is considered successful.
Warning	Data Set does not match SOP Class	B007	Same as "Warning" above.
Warning	Elements Discards	B006	Same as "Warning" above.
*	*	Any other status code.	Same as "Refused" above.

The Behavior of Storage AE during communication failure is summarized in the Table below:

Table 4.2-9
STORAGE COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and
	the send job is marked as failed.
Association aborted by the SCP or network layers	The Send job is marked as failed.

A failed send job can be restarted by user interaction. The system can be configured to automatically resend failed jobs if a transient status code is received. The delay between resending failed jobs and the number of retries is also configurable.

# 4.2.1.3.1.4 SOP Specific Conformance for Storage Commitment SOP Class

### 4.2.1.3.1.4.1 Storage Commitment Operations (N-ACTION)

The Storage AE will request storage commitment for the configured device for instances of the Ultrasound Image, Ultrasound Multi-frame Image and Structured Report Storage SOP Classes.

The Storage AE will consider Storage Commitment failed if no N-EVENT-REPORT is received for a Transaction UID within a configurable time period after receiving a successful N-ACTION response (duration of applicability for a Transaction UID).

The Storage AE does not send the optional Storage Media FileSet ID & UID Attributes or the Referenced Study Component Sequence Attribute in the N-ACTION

The Behavior of Storage AE when encountering status codes in an N-ACTION response is summarized in the Table below:

Table 4.2-10
STORAGE COMMITMENT N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The request for storage comment is considered successfully sent. The system waits for the association of the N-Event-Report.
*	*	Any other status code.	The Association is aborted using A-Abort and the request for storage comment is marked as failed

The behavior of Storage AE during communication failure is summarized in the Table below:

Table 4.2-11
STORAGE COMMITMENT COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior		
Timeout	The Association is aborted using A-ABORT and		
	the storage commitment job is marked as failed.		
Association aborted by the SCP or network layers	The storage commitment job is marked as		
	failed.		

# 4.2.1.3.1.4.2 Storage Commitment Notification (N-EVENT-REPORT)

The Storage AE is capable of receiving an N-EVENT-REPORT notification if it has successfully negotiated a Presentation Context for the Storage Commitment Push Model.

Upon receipt of an N-EVENT-REPORT the timer associated with the Transaction UID will be cancelled.

The behavior of Storage AE when receiving Event Types within the N-EVENT-REPORT is summarized in the Table below.

Table 4.2-12
STORAGE COMMITMENT N-EVENT-REPORT BEHAVIOR

Event Type Name	Event Type	Behavior	
	ID		
Storage Commitment	1	The commit status is set to "Y" for each exam in the exam list.	
Request Successful		Auto deletion for committed exam is not supported.	
Storage Commitment	2	The commit status is set to "N" for each exam in the exam list.	
Request Complete –		The Referenced SOP Instances under Failed SOP Sequence	
Failures Exists		(0008, 1198) are logged. A send job that failed storage commitment	
		will not be automatically restarted but can be restarted by user	
		interaction.	

The reasons for returning specific status codes in an N-EVENT-REPORT response are summarized in the Table below.

Table 4.2-13
STORAGE COMMITMENT N-EVENT-REPORT RESPONSE STATUS REASONS

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The Storage commitment result has been successfully received.
Failure	Unrecognized Operation	0211H	The Transaction UID in the N_EVENT_REPORT request is not (was never issued within an N_ACTION request)
Failure	No Such Event Type	0113H	An invalid Event Type ID was supplied in the N_EVENT_REPORT request
Failure	Processing Failure	0110H	An internal error occurred during processing of the N_EVENT_REPORT

# 4.2.1.3.1.5 SOP Specific Conformance for Verification

The Behavior when encountering status codes in a C-ECHO response is summarized in the Table below:

Table 4.2-14
VERIFICATION C-ECHO RESPONSE STATUS HANDLING BEHAVIOR

Service	Further	Error Code	Behavior
Status	Meaning		
Success	Success	0000	Verification Status is set to 'Normal'
*	*	Any other status code	Verification Status is set to 'Failed'

The Behavior of Storage AE during communication failure is summarized in the Table below:

Table 4.2-15
VERIFICATION COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior	
Timeout	The Association is aborted using A-ABORT and	
	the verification job is marked as failed.	
Association aborted by the SCP or network layers	The verification job is marked as failed.	

### 4.2.1.4 Association Acceptance Policy

# 4.2.1.4.1 Activity – Receive Storage Commitment Response

### 4.2.1.4.1.1 Description and Sequence of Activities

The Storage AE will accept associations in order to receive responses to a Storage Commitment Request.

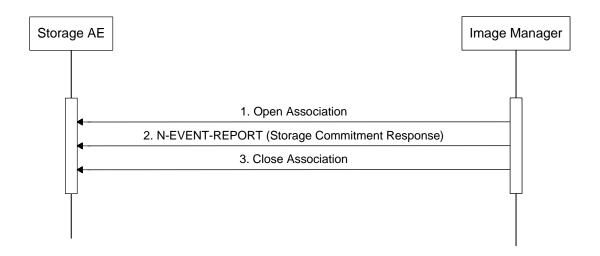


Figure 4.2-2
SEQUENCING OF ACTIVITY - RECEIVE STORAGE COMMITMENT RESPONSE

A possible sequence of interactions between the Storage AE and an Image Manager (e.g. a storage or archive device supporting Storage Commitment SOP Classes as an SCP) is illustrated in the Figure above:

- 1. The Image Manager opens a new association with the Storage AE.
- 2. The Image Manager sends an N-EVENT-REPORT request notifying the Storage AE of the status of a previous Storage Commitment Request. The Storage AE replies with an N-EVENT-REPORT response confirming receipt.
- 3. The Image Manager closes the association with the Storage AE.

# 4.2.1.4.1.2 Accepted Presentation Contexts

The Storage AE will accept Presentation Contexts as shown in the Table below.

Table 4.2-16
ACCEPTABLE PRESENTATION CONTEXTS FOR ACTIVITY
RECEIVE STORAGE COMMITMENT RESPONSE

Presentation Context Table							
Abstract Syntax Transfer Syntax			Role	Ext.			
Name	UID	Name List	Name List UID List				
Storage	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Commitment	20.1	Explicit VR Little Endian	1.2.840.10008.1.2.1				
Push Model							
Verification	1.2.840.10008.1.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None		
	1	Explicit VR Little Endian	1.2.840.10008.1.2.1				

# 4.2.1.4.1.3 SOP Specific Conformance for Storage Commitment SOP Class

### 4.2.1.4.1.3.1 Storage Commitment Notifications (N-EVENT-REPORT)

Upon receipt of an N-EVENT-REPORT the timer associated with the Transaction UID will be cancelled.

The behavior of Storage AE when receiving Event Types within the N-EVENT\_REPORT is summarized in Table 4.2-12.

The reasons for returning specific status codes in an N-EVENT-REPORT response are summarized in Table 4.2-13.

# 4.2.1.4.1.4 SOP Specific Conformance for Verification SOP Class

The Storage AE provides standard conformance to the Verification SOP Class as an SCP. If the C-ECHO request was successfully received, a 0000 (Success) status code will be returned in the C-ECHO response.

# 4.2.2 Workflow Application Entity Specification

### 4.2.2.1 SOP Classes

RS85 provides Standard Conformance to the following SOP Classes:

Table 4.2-17
SOP CLASSES FOR AE WORKFLOW

SOP Classes	SOP Class UID	SCU	SCP
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Yes	No
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Yes	No

# 4.2.2.2 Association Establishment Policy

### 4.2.2.2.1 General

The DICOM standard application context name for DICOM 3.0 is always proposed.

Table 4.2-18
DICOM APPLICATION CONTEXT FOR AE WORKFLOW

Application Context Name	1.2.840.10008.3.1.1.1

### 4.2.2.2.2 Number of Associations

RS85 initiates one Association at a time for a Worklist request.

### **Table 4.2-19**

### NUMBER OF ASSOCIATIONS INITIATED FOR AE WORKFLOW

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

### 4.2.2.2.3 Asynchronous Nature

RS85 does not support asynchronous communications (multiple outstanding transactions over a single Association)

# Table 4.2-20 ASYNCHRONOUS NATURE AS A SCU FOR AE WORKFLOW

Maximum number of outstanding asynchronous transactions	1	
---	---	--

# 4.2.2.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

Table 4.2-21
DICOM IMPLEMENTATION CLASS AND VERSION FOR AE WORKFLOW

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

### 4.2.2.3 Association Initiation Policy

### 4.2.2.3.1 Activity – Worklist Update

### 4.2.2.3.1.1 Description and Sequencing of Activities

The request for a Worklist Update is initiated by user interaction or automatically at specific time intervals, configurable by the user.

The interactive Worklist Query will display a dialog for entering data as search criteria. When the Query is started on your request, only the data from the dialog will be inserted as matching keys into the query.

With automated worklist queries the RS85 always requests all items for a Scheduled Procedure Step Start Date (actual date), Modality (US) and Scheduled Station AE Title.

Upon initiation of the request, the RS85 will build an Identifier for the C-FIND request, will initiate an Association to send the request and will wait for Worklist responses. After retrieval of all responses, RS85 will access the local database to add patient demographic data. The results will be displayed in a separate list, which will be cleared with the next worklist update.

RS85 will initiate an Association in order to issue a C-FIND request according to the Modality Worklist Information Model.

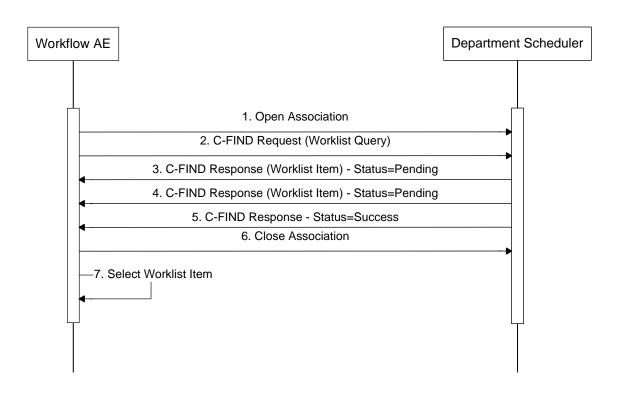


Figure 4.2-3
SEQUENCING OF ACTIVITY - WORKLIST UPDATE

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such as a RIS or HIS which supports the Modality Worklist SOP Class as an SCP) is illustrated in the figure above:

### 4.2.2.3.1.2 Proposed Presentation Contexts

RS85 will propose Presentation Contexts as shown in the following table:

Table 4.2-22
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY WORKLIST UPDATE

Presentation Context Table						
Abstract	Syntax	Transfer Syntax			Ext.	
Name	UID	Name List	Name List UID List			
Modality Worklist	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Information	5.1.4.31	Explicit VR Little Endian	1.2.840.10008. 1.2.1			
Model - FIND						

# 4.2.2.3.1.3 SOP Specific Conformance for Modality Worklist

The behavior of RS85 when encountering status codes in a Modality Worklist C-FIND response is summarized in the table below. If any other SCP response status than "Success" or "Pending" is received by RS85, a message "Query failed" will appear on the user interface.

Table 4.2-23
MODALITY WORKLIST C-FIND RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Matching is complete	0000	The SCP has Completed the operation successfully.
Pending	Matches are continuing	FF00	Continue.
Pending	Matches are continuing - Warning that one or more Optional Keys were not supported	FF01	Continue.
*	*	Any other status code.	The Association is aborted using A-Abort and the Worklist is marked as failed

The behavior of RS85 during communication failure is summarized in the Table below.

Table 4.2-24
MODALITY WORKLIST COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and
	the worklist query is marked as failed.
Association aborted by the SCP or network layers	The Worklist query is marked as failed.

Acquired images will always use the Study Instance UID specified for the Scheduled Procedure Step (if available). If an acquisition is unscheduled, a Study Instance UID will be generated locally.

The Table below provides a description of the RS85 Worklist Request Identifier and specifies the attributes that are copied into the images. Unexpected attributes returned in a C-FIND response are ignored.

Requested return attributes not supported by the SCP are set to have no value. Non-matching responses returned by the SCP due to unsupported optional matching keys are ignored. No attempt is made to filter out possible duplicate entries.

Table 4.2-25
WORKLIST REQUEST IDENTIFIER

Module Name	Ton	VD		_		,	IOD
Attribute Name	Tag	VR	M	R	Q	D	IOD
Scheduled Procedure Step							
Scheduled Procedure Step Sequence	0040,0100	SQ		х			
> Scheduled Station AET	0040,0001	AE	(S)	х	х		
> Scheduled Procedure Step Start Date	0040,0002	DA	S,R	х	х	х	
> Scheduled Procedure Step Start Time	0040,0003	TM		х		х	
> Modality	0008,0060	CS	S	х	х		
> Scheduled Performing Physician's Name	0040,0006	PN		х		х	х
> Scheduled Procedure Step Description	0040,0007	LO		х		х	х
> Scheduled Station Name	0040,0010	SH	S	х	х		
> Scheduled Procedure Step Location	0040,0011	SH	S	х	х		
> Scheduled Protocol Code Sequence	0040,0008	SQ		х			х
> Scheduled Procedure Step ID	0040,0009	SH		х			х
Requested Procedure							
Requested Procedure ID	0040,1001	SH	S	х	х	х	х
Requested Procedure Description	0032,1060	LO		х			
Study Instance UID	0020,000D	UI		х			х
Referenced Study Sequence	0008,1110	SQ		х			х
Requested Procedure Code Sequence	0032,1064	SQ		х			х
Imaging Service Request							
Accession Number	0008,0050	SH	S	х	х	х	х
Requesting Physician	0032,1032	PN		х			
Referring Physician's Name	0008,0090	PN		х		х	х
Visit Status							
Current Patient Location	0038,0300	LO		х			
Patient Identification							
Patient's Name	0010.0010	PN	S	х	х	х	x
Patient ID	0010,0020	LO	S	х	х	х	x
Patient Demographic							

Patient's Birth Date	0010,0030	DA	x	х	x
Patient's Sex	0010,0040	CS	x	х	х
Patient's Size	0010,1020	DS	x	х	х
Patient's Weight	0010,1030	DS	x	х	х
Patient Medical					
Last Menstrual Date	0010,21D0	DA	х	х	х

The above table should read as follows:

Module Name: The Name of the associated module for supported worklist attributes.

Attribute Name: Attributes supported to build an RS85 Worklist Request Identifier.

Tag: DICOM tag for this attribute.

VR: DICOM VR for this attribute.

M: Matching keys for (automatic) Worklist Update. An "S" indicates that RS85 supplies an attribute

value for Single Value Matching or additional specific tags indicated by "(S)"; an "R" will indicate

Range Matching.

R: Return keys. An "X" will indicate that RS85 will supply this attribute as Return Key with zero

length for Universal Matching.

Q: Interactive Query Key. An "X" will indicate that RS85 will supply this attribute as matching key, if

entered in the Setup Dialog.

D: Displayed keys. An "X" indicates that this worklist attribute is displayed to the user during a

patient registration dialog.

IOD: An "X" indicates that this Worklist attribute is included into all Object Instances created during

performance of the related Procedure Step.

### 4.2.2.3.2 Activity – Acquire Images

# 4.2.2.3.2.1 Description and Sequencing of Activities

An Association to the configured MPPS SCP system is established immediately after the first SOP Instance is acquired to send the MPPS N-Create message.

The "End Exam" button causes a message box in which a user can select "COMPLETED" or "DISCONTINUED" as a MPPS final state. An exam for which an MPPS instance is sent with a state of "COMPLETED" or "DISCONTINUED" can no longer be updated.

The RS85 will support creation of "unscheduled cases" by allowing MPPS Instances to be communicated for locally registered Patients.

The RS85 supports a 1-to-N relationship between Scheduled and Performed Procedure Steps.

RS85 will initiate an Association to issue an:

- N-CREATE request according to the CREATE Modality Performed Procedure Step SOP Instance operation, or an:
- N-SET request to update the contents and state of the MPPS according to the SET Modality Performed
   Procedure Step Information operation.

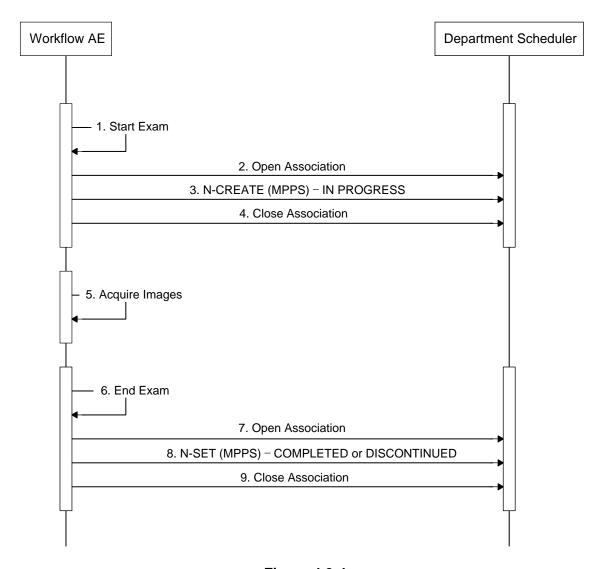


Figure 4.2-4
SEQUENCING OF ACTIVITY - ACQUIRE IMAGES

A possible sequence of interactions between the Workflow AE and a Departmental Scheduler (e.g. a device such as a RIS or HIS which supports the MPPS SOP Class as an SCP) is illustrated in the figure above:

# 4.2.2.3.2.2 Proposed Presentation Contexts

RS85 will propose Presentation Contexts as shown in the following table:

Table 4.2-26
PROPOSED PRESENTATION CONTEXTS FOR REAL-WORLD ACTIVITY ACQUIRE IMAGES

Presentation Context Table						
Abstract S	yntax	Transfer Syntax			Ext.	
Name	UID	Name List UID List			Neg.	
Modality Performed	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Procedure Step	3.1.2.3.3	Explicit VR Little Endian	1.2.840.10008. 1.2.1			

# 4.2.2.3.2.3 SOP Specific Conformance for MPPS

The behavior of the RS85 when encountering status codes in an MPPS N-CREATE or N-SET response is summarized in the table below. If any other SCP response status than "Success" or "Warning" is received by RS85, a message "MPPS failed" will appear on the user interface.

Table 4.2-27
MPPS N-CREATE / N-SET RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
Warning	Attribute Value Out of Range	0116H	The MPPS Operation is considered successful.
*	*	Any other status code.	The Association is aborted using A-Abort and the MPPS is marked as failed

The behavior of RS85 during communication failure is summarized in the table below:

Table 4.2-28
MPPS COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior	
Timeout	The Association is aborted using A-ABORT and	
	the MPPS job is marked as failed.	
Association aborted by the SCP or network layers	The study or series query is marked as failed.	

Table 4.2-29 provides a description of the MPPS N-CREATE and N-SET request identifiers send by RS85. Empty cells in the N-CREATE and N-SET columns indicate that the attribute is not sent.

Table 4.2-29
MPPS N-CREATE / N-SET REQUEST IDENTIFIER

Attribute Name	Tag	VR	N-CREATE	N-SET
Specific Character Set	0008,0005	CS	Ref. Section 6 SUPPORT	
			OF CHARACTER SETS	
Performed Procedure Step Relationship				
Scheduled Step Attribute	0040,0270	70 SQ		
Sequence	0040,0270			
> Study Instance UID	0020,000D	UI	From MWL or generated	
			by device	
> Referenced Study Sequence	0008,1110	SQ	From MWL	
>> Referenced SOP Class UID	0008.1150	UI	From MWL	
>> Referenced SOP Instance	0008,1155 U	1.11	From MWL	
UID		Oi	FIOIII WWVL	
> Accession Number	0008,0050	SH	From MWL or user input	
> Requested Procedure ID	0040,1001	SH	From MWL	
> Requested Procedure	0032,1060	LO	From MWL	
Description				
> Scheduled Procedure Step	0040,0009	SH	From MWL	
ID			FIOIII WWVL	
> Scheduled Procedure Step	0040,0007	LO	From MWL	
Description			FIUIII IVIVVL	
> Scheduled Protocol Code	0040,0008	SQ	From MWL	

Sequence				
>> Code Value	0008,0100	SH	From MWL	
>> Coding Scheme Designator	0008,0102	SH	From MWL	
>> Coding Scheme Version	0008,0103	SH	From MWL	
>> Code Meaning	0008,0104	LO	From MWL	
Patient's Name	0010,0010	PN	From MWL or user input	
Patient ID	0010,0020	LO	From MWL or user input	
Patient's Birth Date	0010,0030	DA	From MWL or user input	
Patient's Sex	0010,0040	CS	From MWL or user input	
Referenced Patient Sequence	0008,1120	SQ	Zero length	
> Referenced SOP Class UID	0008,1150	UI	Zero length	
> Referenced Instance UID	0008,1155	UI	Zero length	
	Performed P	rocedu	re Step Information	
Performed Procedure Step ID	0040,0253	SH	Generated by device (Study Date + Study Time)	
Performed Station AE Title	0040,0241	AE	From Modality Setup	
Performed Station Name	0040,0242	SH	From Modality Setup	
Performed Location	0040,0243	SH	Zero length	
Performed Procedure Step Start Date	0040,0244	DA	Actual Start Date	
Performed Procedure Step Start Time	0040,0245	ТМ	Actual Start Time	
Performed Procedure Step Status	0040,0252	cs	"IN PROGRESS"	"COMPLETED" or "DISCONTINUED"
Performed Procedure Step Description	0040,0254	LO	From MWL or user input (Same as Study Description)	From MWL or user input (Same as Study Description)
Performed Procedure Type Description	0040,0255	LO	Zero length	Zero length
Procedure Code Sequence	0008,1032	SQ	From MWL	From MWL
> Code Value	0008,0100	SH	From MWL	From MWL
> Coding Scheme Designator	0008,0102	SH	From MWL	From MWL
> Coding Scheme Version	0008,0103	SH	From MWL	From MWL

> Code Meaning	0008,0104	LO	From MWL	From MWL
Performed Procedure Step End	0040,0250	DA	Zoro longth	Actual End Date
Date	0040,0250	DA	Zero length	Actual End Date
Performed Procedure Step End	0040,0251	ТМ	Zero length	Actual End Time
Time	0010,0201	1101	Zoro longar	Actual Ella Tillo
Performed Procedure Step				Used when Performed
Discontinuation Reason Code	0040,0281	SQ		Procedure Step Status
Sequence				is "DISCONTINUED"
> Code Value	0008,0100	SH		From User Select
> Coding Scheme Designator	0008,0102	SH		From User Select
> Coding Scheme Version	0008,0103	SH		
> Code Meaning	0008,0104	LO		From user select
	Image	Acqui	sition Results	
Modality	0008,0060	CS	"US"	
			Requested Procedure ID	
Study ID	0020,0010	SH	or Generated by device	
Olday 12		311	(Study Date + Study	
			Time)	
Performed Protocol Code	0040,0260	SQ	Zero length	
Sequence			3	
Performed Series Sequence	0040,0340	SQ	Zero length	One or more items
> Performed Physician's Name	0008,1050	PN		From MWL or user input
> Protocol Name	0018,1030	LO		"FreeForm"
> Operator's Name	0008,1070	PN		From user input
> Series Instance UID	0020,000E	UI		Generated by device
> Series Description	0008,103E	LO		Zero length
> Retrieve AE Title	0008,0054	AE		Zero length
> Referenced Image Sequence	0008,1140	SQ		From Modality
>> Referenced SOP Class UID	0008,1150	UI		From Modality
>> Referenced SOP Instance	0008,1155	UI		From Modality
UID	,			,
> Referenced Non-Image	0040,0220	SQ		From Modality
Composite SOP Instance	•			ŕ

Sequence			
>> Referenced SOP Class UID	0008,1150	UI	From Modality
>> Referenced SOP Instance UID	0008,1155	UI	From Modality

## 4.2.2.4 Association Acceptance Policy

The Workflow Application Entity does not accept Associations.

## 4.2.3 Hardcopy Application Entity Specification

## 4.2.3.1 SOP Classes

RS85 provides Standard Conformance to the following SOP Classes:

Table 4.2-30 SOP CLASSES FOR AE HARDCOPY

SOP Classes	SOP Class UID	SCU	SCP
Basic Grayscale Print Management Meta	1.2.840.10008.5.1.1.9	Yes	No
Basic Color Print Management Meta	1.2.840.10008.5.1.1.18	Yes	No

#### 4.2.3.2 Association Policies

## 4.2.3.2.1 General

The DICOM standard application context name for DICOM 3.0 is always proposed:

Table 4.2-31
DICOM APPLICATION CONTEXT FOR AE HARDCOPY

Application Context Name	1.2.840.10008.3.1.1.1

## 4.2.3.2.2 Number of Association

RS85 can initiate one or more Associations at a time for each destination to which a transfer request is being processed in the active job queue list.

# Table 4.2-32 NUMBER OF ASSOCIATIONS INITIATED FOR AE HARDCOPY

Maximum number of simultaneous Associations	Unlimited (number of configured	
	hardcopy devices)	

## 4.2.3.2.3 Asynchronous Nature

RS85 does not support asynchronous communications (multiple outstanding transactions over a single Association)

# Table 4.2-33 ASYNCHRONOUS NATURE AS A SCU FOR AE HARDCOPY

Maximum number of outstanding asynchronous transactions	1
---	---

## 4.2.3.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

#### **Table 4.2-34**

#### DICOM IMPLEMENTATION CLASS AND VERSION FOR AE HARDCOPY

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

## 4.2.3.3 Association Initiation Policy

## 4.2.3.3.1 Activity – Film Images

## 4.2.3.3.1.1 Description and Sequencing of Activities

A user composes images onto film sheets and requests them to be sent to a specific hardcopy device. The user can select the desired film format and number of copies. Each print-job is forwarded to the job queue and processed individually.

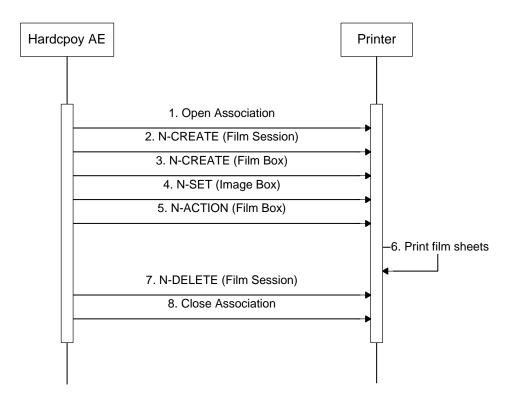


Figure 4.2-5
SEQUENCING OF ACTIVITY - FILM IMAGES

A typical sequence of DIMSE messages sent over an association between Hardcopy AE and a Printer is illustrated in the Figure above:

Association Initiation Policies for "Send on end exam", "Send As You Go" and "Manual" Mode are equal to the Sending images' of the Storage Application Entity. (See 4.2.1.3.1.1)

Status of the print-job is reported through the job control interface. One or more job can be active at a time for each separate hardcopy device. If any response from the remote Application contains a status other than Success or Warning, the Association is aborted and the related job is switched to a failed state. It can be restarted any time by user interaction or, if configured, by automated retry.

## 4.2.3.3.1.2 Proposed Presentation Contexts

RS85 is capable of proposing the Presentation Contexts shown in the Table below:

**Table 4.2-35** 

## PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY FILM IMAGES

Presentation Context Table						
Abstract Syntax Transfer Syntax				Role	Ext.	
Name	UID	Name List	UID List		Neg.	
Basic Grayscale Print	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Management Meta	5.1.1.9	Explicit VR Little Endian	1.2.840.10008.1.2.1			
Basic Color Print	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None	
Management Meta	5.1.1.18	Explicit VR Little Endian	1.2.840.10008.1.2.1			

## 4.2.3.3.1.3 Common SOP Specific Conformance for all Print SOP Classes

The general behavior of Hardcopy AE during communication failure is summarized in the table below. This behavior is common for all SOP Classes supported by Hardcopy AE.

Table 4.2-36
HARDCOPY COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	The Association is aborted using A-ABORT and
	the print job is marked as failed.
Association aborted by the SCP or network layers	The print job is marked as failed.

## 4.2.3.3.1.4 SOP Specific Conformance for the Film Session SOP Class

Hardcopy AE supports the following DIMSE operations for the Film Session SOP Class:

- N-CREATE
- N-DELETE

Details of the supported attributes and status handling behavior are described in the following subsections.

## 4.2.3.3.1.4.1 Film Session SOP Class Operations (N-CREATE)

The attributes supplied in an N-CREATE Request are listed in the Table below:

Table 4.2-37
FILM SESSION SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name Tag V	Value	Presence Source
----------------------	-------	-----------------

				of Value	
Number of Copies	2000,0010	IS	199	ALWAYS	USER
Print Priority	2000,0020	CS	HIGH, MED or LOW	ALWAYS	USER
			PAPER, CLEAR FILM, BLUE		
Medium Type	2000,0030	cs	FILM, MAMMO CLEAR FILM	ALWAYS	USER
			or MAMMO BLUE FILM		
Film Destination	2000,0040	cs	MAGAZINE or PROCESSOR	ALWAYS	USER

The Behavior of Hardcopy AE when encountering status codes in an N-CREATE response is summarized in the table below:

Table 4.2-38
FILM SESSION SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
Warning	Attribute Value Out of Range	0116H	System continues operations.
Warning	Attribute List Error	0107H	Same as above
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

# 4.2.3.3.1.4.2 Film Session SOP Class Operations (N-DELETE)

The behavior of Hardcopy AE when encountering status codes in an N-DELETE response is summarized in the Table below:

Table 4.2-39
PRINTER SOP CLASS N-DELETE RESONSE STATUS HANDLING BEHAVIOR

Service	Further	Error
Status	Meaning	Code

Success	Success	0000	The SCP has Completed the operation successfully.	
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed	

## 4.2.3.3.1.5 SOP Specific Conformance for the Film Box SOP Class

Hardcopy AE supports the following DIMSE operations for the Film Box SOP Class:

- N-CREATE
- N-ACTION

Details of the supported attributes and status handling behavior are described in the following subsections.

## 4.2.3.3.1.5.1 Film Box SOP Class Operations (N-CREATE)

The attributes supplied in an N-CREATE Request are listed in the table below:

Table 4.2-40
FILM BOX SOP CLASS N-CREATE REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence	Source
	_			of Value	
			"STANDARD\1, 1",		
			"STANDARD\1, 2",		
			"STANDARD\2, 2" ,		
			"STANDARD\2, 3" ,		USER
Image Display	2040 0040	ST	"STANDARD\3, 3" ,	ALWAYS	
Format	2010,0010	31	"STANDARD\3, 4" ,	ALWATS	
			"STANDARD\3, 5" ,		
			"STANDARD\4, 4" ,		
			"STANDARD\4, 5" or		
			"STANDARD\4, 6"		
Referenced Film					
Session	2010.0500	SQ		ALWAYS	AUTO
Sequence					
> Referenced	0000 4450		4 0 0 40 40000 5 4 4 4	A L \A \ A \ \ C	ALITO
SOP Class UID	0008,1150	UI	1.2.840.10008.5.1.1.1	ALWAYS	AUTO
> Referenced	0008,1155	UI	From created Film Session	ALWAYS	AUTO

SOP Instance			SOP Instance		
UID					
Film Orientation	2010,0040	cs	PORTRAIT or LANDSCAPE	ALWAYS	USER
			8INX10IN, 8_5INX11IN,		
			10INX12IN, 10INX14IN,		
E'l 0' ID	0040 0050	00	11INX14IN, 11INX17IN,	41.14/4.1/0	HOED
Film Size ID	2010,0050	CS	14INX14IN, 14INX17IN,	ALWAYS	USER
			24CMX24CM, 24CMX30CM,		
			A4, A3		
Magnification	0040 0000	00	REPLICATE, BILINEAR,	4134/43/0	11055
Туре	2010,0060	CS	CUBIC, NONE	ALWAYS	USER
Max Density	2010,0130	US	0~	ANAP	USER
Configuration	0040 0450	0.7	Values are defined in Print	ANIAD	HOED
Information	2010,0150	ST	Conformance Statement	ANAP	USER
O 41: T	0040 0000	00	Values are defined in Print	4445	
Smoothing Type	2010,0080	CS	Conformance Statement	ANAP	USER
Border Density	2010,0100	CS	BLACK or WHITE	ALWAYS	USER
Empty Image	2010 0110	CC	DI ACK or WHITE	A1.W/AVC	LICED
Density	2010,0110	CS	BLACK or WHITE	ALWAYS	USER
Min Density	2010,0120	US	0 ~	ANAP	USER

The behavior of Hardcopy AE when encountering status codes in an N-CREATE responses is summarized in the table below:

Table 4.2-41
FILM BOX SOP CLASS N-CREATE RESPONSE STATUS HANDLING BEHAVIOR

Service	Further Meening	Error	Behavior
Status	Further Meaning	Code	Deliavioi
Success	Success	0000	The SCP has Completed the operation successfully.
Warning	Attribute Value Out of Range	0116H	System continues operations.

Warning	Attribute List Error	0107H	Same as above
Warning	Requested Min Density or Max Density outside of printer's operating range	B605H	Same as above
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

## 4.2.3.3.1.5.2 Film Box SOP Class Operations (N-ACTION)

An N-ACTION Request is issued to instruct the Print SCP to print the contents of the Film Box.

The behavior of Hardcopy AE when encountering status codes in an N-ACTION responses is summarized in the table below:

Table 4.2-42
FILM BOX CLASS N-ACTION RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

## 4.2.3.3.1.6 SOP Specific Conformance for the Film Box SOP Class

Hardcopy AE supports the following DIMSE operations for the Image Box SOP Class:

- N-SET

Details of the supported attributes and status handling behavior are described in the following subsections.

## 4.2.3.3.1.6.1 Image Box SOP Class Operations (N-SET)

The attributes supplied in an N-SET Request are listed in the Table below:

Table 4.2-43
BASIC GRAYSCALE IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Position	2020,0010	US	1 N (N = Row * Column of Film Box)	ALWAYS	AUTO
Basic Grayscale Image Sequence	2020,0110	SQ		ALWAYS	AUTO
> Samples Per Pixel	0028,0002	US	1	ALWAYS	AUTO
> Photometric Interpretation	0028,0004	cs	MONOCHROME2	ALWAYS	AUTO
> Rows	0028,0010	US	Number of Row Pixels of Image	ALWAYS	AUTO
> Columns	0028,0011	US	Number of Column Pixels of Image	ALWAYS	AUTO
> Bits Allocated	0028,0100	US	8	ALWAYS	AUTO
> Bits Stored	0028,0101	US	8	ALWAYS	AUTO
> High Bit	0028,0102	US	7	ALWAYS	AUTO
> Pixel Representation	0028,0103	US	0	ALWAYS	AUTO
> Pixel Data	7FE0,0010	ОВ	Pixels of Image	ALWAYS	AUTO

Table 4.2-44
BASIC COLOR IMAGE BOX SOP CLASS N-SET REQUEST ATTRIBUTES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Image Position	2020,0010	US	1 N (N = Row * Column of	ALWAYS	AUTO
age : come	2020,0010		Film Box)	,,_,,,,	1.0.0
> Samples Per Pixel	0028,0002	US	3	ALWAYS	AUTO
> Photometric	0028,0004	cs	RGB	ALWAYS	ALITO
Interpretation	0020,0004	CS	RGB	ALWAYS	AUTO
> Planar	0020 0006	US	4	ALWAYS	ALITO
Configuration	0028,0006	05	1	ALVVAYS	AUTO

> Rows	0028,0010	US	Number of Row Pixels of Image	ALWAYS	AUTO
> Columns	0028,0011	US	Number of Column Pixels of Image	ALWAYS	AUTO
> Bits Allocated	0028,0100	US	8	ALWAYS	AUTO
> Bits Stored	0028,0101	US	8	ALWAYS	AUTO
> High Bit	0028,0102	US	7	ALWAYS	AUTO
> Pixel Representation	0028,0103	US	0	ALWAYS	AUTO
> Pixel Data	7FE0,0010	ОВ	Pixels of Image	ALWAYS	AUTO

The behavior of Hardcopy AE when encountering status codes in an N-SET response is summarized in the table below:

Table 4.2-45
IMAGE BOX SOP CLASS N-SET RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Success	Success	0000	The SCP has Completed the operation successfully.
*	*	Any other status code.	The Association is aborted using A-Abort and the print-job is marked as failed

## 4.2.3.4 Association Acceptance Policy

The Hardcopy Application Entity does not accept Associations.

# 4.2.4 Q/R Application Entity Specification

## 4.2.4.1 SOP Classes

RS85 provides Standard Conformance to the following SOP Classes:

Table 4.2-46 SOP CLASSES FOR AE Q/R

SOP Classes	SOP Class UID	SCU	SCP
Study Root Information Model- FIND	1.2.840.10008.5.1.4.1.2.2.1	Yes	No
Study Root Information Model- MOVE	1.2.840.10008.5.1.4.1.2.2.2	Yes	No

## 4.2.4.2 Association Establishment Policy

#### 4.2.4.2.1 General

The DICOM standard application context name for DICOM 3.0 is always proposed.

# Table 4.2-47 DICOM APPLICATION CONTEXT FOR AE Q/R

	T
Application Context Name	1.2.840.10008.3.1.1.1

#### 4.2.4.2.2 Number of Associations

RS85 initiates one Association at a time for a Q/R request.

#### **Table 4.2-48**

## NUMBER OF ASSOCIATIONS INITIATED FOR AE Q/R

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

## 4.2.4.2.3 Asynchronous Nature

RS85 does not support asynchronous communications (multiple outstanding transactions over a single Association)

## Table 4.2-49

#### ASYNCHRONOUS NATURE AS A SCU FOR AE Q/R

Maximum number of outstanding asynchronous transactions	1
---	---

## 4.2.4.2.4 Implementation Identifying Information

The implementation information for this Application Entity is:

#### **Table 4.2-50**

## DICOM IMPLEMENTATION CLASS AND VERSION FOR AE Q/R

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

## 4.2.4.3 Association Initiation Policy

## 4.2.4.3.1 Activity – Query study or series

## 4.2.4.3.1.1 Description and Sequencing of Activities

The Query attempts to initiate a new association when the user selects Query from the user interface.

When the Query is requested, the data from the user interface will be inserted as matching keys into the query form. When the request is initiated, the RS85 will build an identifier for the C-FIND request, and it will initiate an association to send the request and will wait for Query responses. The results will be diaplayed in a study or series list.

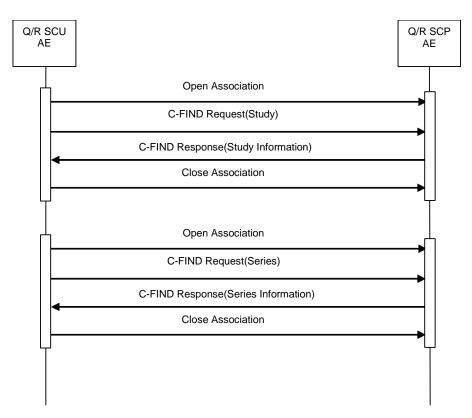


Figure 4.2-6
SEQUENCING OF ACTIVITY - HANDLING QUERY STUDY OR SERIES

## 4.2.4.3.1.2 Proposed Presentation Contexts

RS85 will propose Presentation Contexts as shown in the following table:

Table 4.2-51

PROPOSED PRESENTATION CONTEXTS

FOR REAL-WORLD ACTIVITY QUERY STUDY OR SERIES

Presentation Context Table							
Abstract Syntax		Transfer Syntax		Role	Ext.		
Name	UID	Name List	UID List		Neg.		
Study Root	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None		
Information Model-	5.1.4.1.2.2.1	Explicit VR Little Endian	1.2.840.10008. 1.2.1	SCU	None		

FIND	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None	]
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## 4.2.4.3.1.3 SOP Specific Conformance for Query SOP Classes

The behavior of the RS85 when encountering status codes in the Query C-FIND response is summarized in the table below. If any SCP response status other than "Successful" or "Pending" is received by RS85, the message "Query failed" will appear in the user interface.

Table 4.2-52
QUERY C-FIND RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Successful	Matching is complete	0000	The SCP has completed the operation successfully.
Pending	Matches are continuing	FF00	The query is still ongoing.
Pending	Matches are continuing - Warning that one or more Optional Keys were not supported	FF01	The query is still ongoing.
*	*	Any other status code.	The association is aborted using A-Abort and the Query is marked as failed.

The behavior of the RS85 during communication failure is summarized in the table below:

Table 4.2-53

QUERY COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Time Out	The association is aborted using A-ABORT and
	the query is marked as failed.
Association aborted by the SCP or network layers	The study or series query is marked as failed.

The system actually performs a number of C-FIND requests at multiple levels in the DICOM object hierarchy to get the data it requires to display studies or series. Table 4.2-54 provides a description of the query request identifiers.

**Table 4.2-54** 

## **QUERY REQUEST IDENTIFIER FOR FIND-SCU**

Attribute Name	Tag	VR	М	R	Q	D
STUDY Level						
Query/Retrieve Level	0008,0052	cs	S	Х	х	
Patient's ID	0010,0020	LO	S	х	х	х
Patient's Name	0010,0010	PN	S	х	х	х
Study Description	0008,1030	LO		х		х
Modalities In Study	0008,0061	CS		х		х
Study Date	0008,0020	DA	S,R	х	х	х
Study Time	0008,0030	TM		х		
Accession Number	0008,0050	SH		х	х	
Study Instance UID	0020,000D	UI		х	х	
Number of Study Related Series	0020,1206	IS		х		х
Number of Study Related Instances	0020,1208	IS		х		
SERIES Level						
Query/Retrieve Level	0008,0052	CS	S	х	х	
Series Number	0020,0011	IS		х		х
Series Description	0008,103E	LO		х		х
Modality	0008,0060	CS		х		х
Series Date	0008,0021	DA		х		х
Series Time	0008,0031	TM		х		
Body Part Examined	0018,0015	cs		х		х
Series Instance UID	0020,000E	UI		х		
Study Instance UID	0020,000D	UI	S		х	
Number of Series Related Instances	0020,1209	IS		Х		Х

The table above should read as follows:

Attribute Name: Supported attributes that can build an RS85 Query Request Identifier.

Tag: DICOM tag for this attribute.
VR: DICOM VR for this attribute.

M: Matching keys for (automatic) Query. An "S" indicates that the RS85 can supply an attribute value

for Single Value Matching or additional specific tags indicated by "(S)"; an "R" indicates Range

Matching.

R: Return keys. An "X" indicates that the RS85 will supply this attribute as the Return Key with zero

length for Universal Matching.

Q: Interactive Query Key. An "X" indicates that the RS85 will supply this attribute as a matching key,

if entered in the Setup Dialog.

D: Displayed keys. An "X" indicates that this Query attribute is displayed to the user during a patient registration dialog.

## 4.2.4.3.2 Activity – Retrieve series

## 4.2.4.3.2.1 Description and Sequencing of Activities

The retrieval function attempts to initiate a new association when the user selects Retrieve in the user interface. A single attempt will be made to retrieve the entity (series) from the selected Q/R AE. If retrieval fails, for whatever reason, no reattempt will be performed.

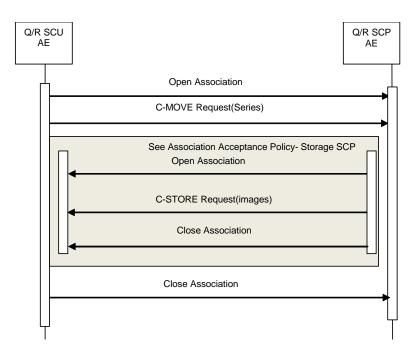


Figure 4.2-7
SEQUENCING OF ACTIVITY – HANDLING RETRIEVE SERIES

## 4.2.4.3.2.2 Proposed Presentation Contexts

RS85 will propose Presentation Contexts as shown in the following table:

Table 4.2-55
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY RETRIEVE SERIES

Presentation Context Table						
Abstract Syntax		Transfer Syntax		Role	Ext.	
Name	UID	Name List	UID List		Neg.	
Study Root	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None	
Information	5.1.4.1.2.2.2	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None	

Model- MOVE	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None	
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## 4.2.4.3.2.3 SOP Specific Conformance for Retrieval SOP Classes

The behavior of the RS85 when encountering status codes in Retrieve C-MOVE response is summarized in the table below. If any SCP response status other than "Successful" or "Pending" is received by the RS85, a "failed" message will appear on the user interface.

Table 4.2-56
RETRIEVE C-MOVE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Successful	Sub-operations complete – no failures detected	0000	All the Composite SOP Instances have been successfully sent to the C-MOVE Destination AE.
Pending	Sub-operations are still ongoing	FF00	A response with this status code is sent every time a Composite SOP Instance has been successfully sent to the C-MOVE Destination AE.
*	*	Any other status code.	The association is aborted using A-Abort and the retrieval is marked as failed

The behavior of the RS85 during communication failure is summarized in the table below.

Table 4.2-57
RETRIEVE COMMUNICATION FAILURE BEHAVIOR

Exception	Behavior
Timeout	The association is aborated using A-ABORT
	and the retireval job is marked as failed.
Association aborted by the SCP or network layers	The retrieval is marked as failed.

Table 4.2-58
RETREIVE REQUEST IDENTIFIER FOR MOVE-SCU

Name	Tag	VR	M	R	Q	D
Series Instance UID	0020,000E	UI	S		х	

## 4.2.4.4 Association Acceptance Policy

The Q/R Application Entity does not accept associations.

## 4.2.5 STORAGE-SCP Application Entity Specification

## 4.2.5.1 SOP Classes

The RS85 provides Standard Conformance to the following SOP Classes:

Table 4.2-59
SOP CLASSES FOR AE STORAGE-SCP

SOP Classes	SOP Class UID	SCU	SCP
Verification	1.2.840.10008.1.1	Yes	Yes
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	No	Yes
US Multi-frame Storage	1.2.840.10008.5.1.4.1.1.3.1	No	Yes
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	No	Yes
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	No	Yes
MG present Image Storage	1.2.840.10008.5.1.4.1.1.1.2	No	Yes
MG Process Image Storage	1.2.840.10008.5.1.4.1.1.1.2.1	No	Yes
DX present Image Storage	1.2.840.10008.5.1.4.1.1.1.1	No	Yes
DX process Image Storage	1.2.840.10008.5.1.4.1.1.1.1	No	Yes
Standard PET Image Storage	1.2.840.10008.5.1.4.1.1.128	No	Yes
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	No	Yes

## 4.2.5.2 Association Establishment Policy

#### 4.2.5.2.1 General

The DICOM standard application context name for DICOM 3.0 is always proposed.

Table 4.2-60
DICOM APPLICATION CONTEXT FOR AE STORAGE-SCP

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

#### 4.2.5.2.2 Number of Associations

The STORAGE-SCP AE can support multiple simultaneous associations requested by AEs. Each time the STORAGE-SCP AE receives an association request, a child process will be spawned to process the storage.

Table 4.2-61

NUMBER OF ASSOCIATIONS INITIATED FOR AE STORAGE-SCP

Maximum number of simultaneous Associations	Unlimited
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## 4.2.5.2.3 Implementation Identifying Information

The implementation information for this Application Entity is:

**Table 4.2-62** 

#### DICOM IMPLEMENTATION CLASS AND VERSION FOR AE STORAGE-SCP

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

## 4.2.5.3 Association Initiation Policy

The STORAGE-SCP Application Entity does not initiate associations.

## 4.2.5.4 Association Acceptance Policy

## 4.2.5.4.1 Activity – Receive Images

## 4.2.5.4.1.1 Description and Sequencing of Activities

The STORAGE-SCP AE accepts associations only if they have valid Presentation Contexts. The STORAGE-SCP AE does not have a limit on the number of associations used to send images to it. Images belonging to more than one series can be sent over a single or multiple associations. Images belonging to a single Series can also be sent via different associations.

# 4.2.5.4.1.2 Proposed Presentation Contexts

The RS85 will propose Presentation Contexts as shown in the following table:

Table 4.2-63
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY RECEIVE IMAGES

		Presentation Context Table	)		
Abstract	Syntax	Transfer Sy	ntax	Role	Ext.
Name	UID	Name List	UID List		Neg.
US Image	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Storage	5.1.4.1.1.6.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
US Multi-frame	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Storage	5.1.4.1.1.3.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
CT Image	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Storage	5.1.4.1.1.2	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
MR Image	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Storage	5.1.4.1.1.4	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None

Г		<u></u>			1
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
MG present	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Image Storage	5.1.4.1.1.1.2	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
MG Process	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Image Storage	5.1.4.1.1.2.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
DX present	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Image Storage	5.1.4.1.1.1.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
DX process	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Image Storage	5.1.4.1.1.1.1	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
1		0. 20 2/10/1000 (1.100000 2.01.1)			

		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
Standard PET	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Image Storage	5.1.4.1.1.128	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None
Secondary	1.2.840.10008.	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
Capture Image	5.1.4.1.1.7	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
Storage		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		JPEG Lossless HIER 14	1.2.840.10008.1.2.4.70	SCP	None
		JPEG Baseline(Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG 2000 Lossless ONLY	1.2.840.10008.1.2.4.90	SCP	None
		JPEG 2000	1.2.840.10008.1.2.4.91	SCP	None

# 4.2.5.4.1.3 SOP Specific Conformance for Storage SOP Classes

The behavior response of the RS85 when encountering status codes in C-STORE is summarized in the table below. If any SCP response status other than "Successful" is received by the RS85 it is marked as failed.

Table 4.2-64
C-STORE RESPONSE STATUS HANDLING BEHAVIOR

Service Status	Further Meaning	Error Code	Behavior
Successful	Successfully stored the SOP instance.	0000	The SCP has successfully stored the SOP Instance. If all SOP Instances succeed, the job is marked as complete.
*	*	Any other status code.	The association is aborted using A-Abort and the request to receive the image is marked as failed.

## 4.3 NETWORK INTERFACE

## 4.3.1 Physical Network Interface

RS85 supports a single network interface. One of the following physical network interfaces will be available depending on hardware options installed:

Table 4.3-1
SUPPORTED PHYSICAL NETWORK INTERFACES

Ethernet 100baseT	
Ethernet 10baseT	

#### 4.4 CONFIGURATION

#### 4.4.1 AE Title/Presentation Address Mapping

#### 4.4.1.1 Local AE Titles

All local applications use the AE Titles and TCP/IP Ports configured via the Setup/DICOM Menu. All local DICOM services use the same AE Title. The system listens for Verification requests and Commitment reports on the configured Port.

#### 4.4.1.2 Remote AE Title/Presentation Address Mapping

The AE Title, host names and port numbers of remote applications are configured using the RS85 Setup/DICOM Menu.

## 4.4.1.2.1 Storage

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Image Storage SCPs. Multiple remote Image Storage SCPs can be defined.

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Structured Report Storage SCP. Only a single remote Structured Report Storage SCP can be defined.

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Storage Commitment SCP. Only a single remote Storage Commitment SCP can be defined and only one Image Storage SCP can be assigned for Storage Commitment.

#### 4.4.1.2.2 Workflow

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Modality Worklist SCP. Multiple remote Modality Worklist SCPs can be defined.

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote MPPS SCP. Only a single remote MPPS SCP can be defined.

## 4.4.1.2.3 Hardcopy

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Print SCPs. Multiple remote Print SCPs can be defined.

## 4.4.1.2.4 Query/Retrieve

The Add button on the RS85 Setup/DICOM Menu must be used to set the AE Titles, port-numbers, IP addresses and capabilities for the remote Query/Retrieve SCP. Multiple remote Query/Retrieve SCPs can be defined.

#### 4.4.2 Parameters

A number of parameters related to acquisition and general operation can be configured using the Setup/DICOM Menu. The Table below only shows those configuration parameters relevant to DICOM communications. See the RS85 Manual for details on general configuration capabilities.

Table 4.4-1
CONFIGURATION PARAMETERS TABLE

Parameter	Configurable	Default Value		
Local System Paramet	(Yes/No)			
Local System Faramet	CI 3	1		
AE Title (Local System AE Title)	Yes	"Set AE Title"		
Station Name	Yes	"Set Station Name"		
Port No. (Local Port Number)	Yes	104		
DICOM Send Format Parameters				
2D Mode	Yes	Color		

Color Mode	Yes	Color
DICOM Compression	Parameters	<b>.</b>
Still Image	Yes	Uncompressed
Cine	Yes	JPEG Baseline
DICOM Transfer	Mode	,
Send on end exam / Send as you go	Yes	"Send on end exam"
Service Common Pa	rameters	
Retry Interval	Yes	30 Sec.
Connect Timeout	Yes	15 Sec.
Maximum Retires	Yes	1
Storage Parame	eters	
Maintain association	Yes	Checked
Include 3D Volume	Yes	Unchecked
Send Cine Loops	Yes	Checked
Include Pixel Spacing	Yes	Unchecked
Window Center (VOI LUT)	Yes	128
Window Width (VOI LUT)	Yes	256
Storage SR Para	mater	
Maintain association	Yes	Checked
Performed Procedure Ste	ep Parameters	
Always complete exams	Yes	Checked
Storage Commitment	Parameters	
Associated Storage Server	Yes	None
Associated SR Server	Yes	None
Worklist Modality Pa	rameters	
Show Worklist first when the patient screen opens	Yes	Checked
Update Method	Yes	"Only on user
		Request"
Scheduled Station Name	Yes	"Any"
Study Description Priority	Yes	"Scheduled
		Procedure Step
		Description"
		"Requested
		Procedure
		Description"

		"Scheduled
		Procedure Step,
		Code Meaning"
Scheduled Station AE Title	Yes	Any
Scheduled Procedure Step Location	Yes	Any
State Date	Yes	Today
Modality Type	Yes	US
Patient ID	Yes	Blank
Last (Family)	Yes	Blank
Accession #	Yes	Blank
Procedure ID	Yes	Blank
Print F	Parameters	
Transfer Mode	Yes	"Send on end exam"
Color	Yes	"Grayscale"
Medium Type	Yes	"PAPER"
Format	Yes	1x1
Film Size	Yes	8 IN X 10 IN
Orientation	Yes	"PORTRAIT"
Destination	Yes	"MAGAZINE"
Magnification	Yes	"REPLICATE"
Smoothing Type	Yes	Blank
Border Density	Yes	"BLACK"
Empty Density	Yes	"BLACK"
Priority	Yes	"HIGH"
Min Density	Yes	Blank
Max Density	Yes	Blank
Copies	Yes	1
Configuration Info	Yes	Blank
0	thers	
Store SR at End of Exam	Yes	Checked
Max Frame Rate	Yes	30

## 5 MEDIA INTERCHANGE

## 5.1 IMPLEMENTATION MODEL

## 5.1.1 Application Data Flow

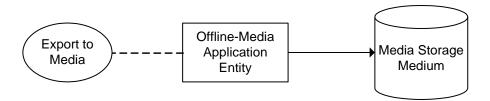


Figure 5.1-1
APPLICATION DATA FLOW DIAGRAM FOR MEDIA STORAGE

- The Offline-Media Application Entity exports images and Structured Report to a Media Storage medium. It is associated with the local real-world activity "Export to Media", "Export to Media" is performed upon user request for selected studies.

#### 5.1.2 Functional Definition of AEs

## 5.1.2.1 Functional Definition of Offline-Media Application Entity

Activation of the "Export to Media" menu entry will pass the currently selected studies to the Offline-Media Application Entity. The SOP Instances associated with the selection will be collected into one or more export jobs. The contents of each export job will be written to a single media.

## 5.1.3 Sequencing of Real-World Activities

At least one study must exist and be selected before the Offline-Media Application Entity can be invoked. The operator can insert a new media at any time before or after invocation of the Offline-Media Application Entity. If no media is available the export job can be cancelled immediately.

## 5.1.4 File Meta Information Options

The implementation written to the File Meta Header in each file is:

Table 5.1-1
DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE

Implementation Class UID	1.2.410.200001.1.1185
Implementation Version Name	RS85

#### 5.2 AE SPECIFICATIONS

## 5.2.1 Offline-Media Application Entity Specification

The Offline-Media Application Entity provides standard conformance to the Media Storage Service Class. The Application Profiles and roles are listed below:

Table 5.2-1
APPLICATION PROFILES, ACTIVITIES AND ROLES FOR OFFLINE-MEDIA

Application Profiles Supported	Real World Activity	Role
STD-US-SC-MF-CDR	Export To Media	FSC, FSU, FSR
STD-US-SC-MF-DVD	Export To Media	FSC, FSU, FSR

## 5.2.1.1 File Meta Information for the Application Entity

The File-Set Identifier included in the File Meta Header is "MED\_FSU".

#### 5.2.1.2 Real-World Activities

## 5.2.1.2.1 Activity – Export to Media

The Offline-Media Application Entity acts as an FSC and FSU when requested to export SOP Instances from the local database to a media.

If the contents of the current selection do not fit on a single media, a separation into multiple export jobs which can be adapted by the user will be suggested.

The user will be prompted to insert a media for each export job. The contents of the export job will be written together with a corresponding DICOMDIR to a media. Writing in multi-session mode is supported.

# **5.2.1.2.1.1** Media Storage Application Profiles

The Offline-Media Application Entity supports the STD-US-SC-MF-CDR and STD-US-SC-MF-DVD Application Profile.

## 5.2.1.2.1.1.1 Options

The Media Application Entity supports the SOP Classes and Transfer Syntaxes listed in the table below:

Table 5.2-2 IODS, SOP CLASSES AND TRANSFER SYNTAXES FOR OFFLINE MEDIA

Information Object	SOP Class UID	Transfer Syntax	Transfer Syntax UID
Definition			
Media Storage Directory	1.2.840.10008.1.3.10	Explicit VR Little Endian	1.2.840.10008.1.2.1
Storage			
US Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Little Endian	1.2.840.10008.1.2.1
		JPEG Baseline Lossy	1.2.840.10008.1.2.4.50
		Compression	
US Multiframe Image	1.2.840.10008.5.1.4.1.1.3.1	Explicit VR Little Endian	1.2.840.10008.1.2.1
Storage		JPEG Baseline Lossy	1.2.840.10008.1.2.4.50
		Compression	
Comprehensive Structured	1.2.840.10008.5.1.4.1.1.88.3	Explicit VR Little Endian	1.2.840.10008.1.2.1
Report Storage	3		

## **6 SUPPORT OF CHARACTER SETS**

All RS85 DICOM applications support the

ISO\_IR 100 : Latin Alphabet No. 1

Supplementary set of ISO 8859
ISO 646

ISO\_IR 144 : Cyrillic

Supplementary set of ISO 8859
ISO 646

\ISO 2022 IR 149 : Korean

KS X 1001 Hangle and Hanja
ISO 646

ISO 2000 IR 13\ISO 2022 IR 87 : Japanese

JIS X 0201 Katakana

JIS X 0201 Romaji

JIS X 0208 Kanji

JIS X 0212 Supplementary Kanji Set

GB18030: Chinese

## 7 SECURITY

RS85 does not support any specific security measures.

It is assumed that RS85 is used within a secured environment. It is assumed that a secured environment includes as minimum:

- a. Firewall or router protections to ensure that only approved external hosts have network access to RS85.
- b. Firewall or router protections to ensure that RS85 has only network access to approved external hosts and services.
- c. Any communication with external hosts and services outside the locally secured environment use appropriately 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

Table 8.1-1 specifies the attributes of an Ultrasound Image transmitted by the RS85 storage applications.

8.1-3 specifies the attributes of a Comprehensive Structured Reports transmitted by the RS85 storage applications.

The following tables use a number of abbreviations. The abbreviations used in the "Presence of..." column are:

VNAP Value Not Always Present (attribute sends zero length if no value is present)

ANAP Attribute Not Always Present

EMPTY Attribute is sent without a value

The abbreviations used in the "Source" column:

MWL the attribute value source Modality Worklist
USER the attribute value source is from User input
AUTO the attribute value is generated automatically

MPPS the attribute value is the same as the Modality Performed Procedure Step service

CONFIG the attribute value source is a configurable parameter

NOTE: All dates and times are encoded in the local configured calendar and time. Date, Time and Time zones are configured using the Setup Menu.

## 8.1.1.1 US or US Multiframe Image IOD

Table 8.1-1
IOD OF CREATED US OR US MULTIFRAME SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 8.1-4	ALWAYS
Study	General Study	Table 8.1-5	ALWAYS
	Patient Study	Table 8.1-6	ALWAYS

Series	General Series	Table 8.1-7	ALWAYS
Equipment	General Equipment	Table 8.1-8	ALWAYS
	General Image	Table 8.1-9	ALWAYS
	Image Pixel	Table 8.1-10	ALWAYS
	Cine	Table 8.1-11	Only if US Multiframe
lma a ma	Multi-Frame	Table 8.1-12	Only if US Multiframe
Image	US Region Calibration	Table 8.1-13	ANAP
	US Image	Table 8.1-14	ALWAYS
	VOI LUT	Table 8.1-15	ALWAYS
	SOP Common	Table 8.1-17	ALWAYS

## 8.1.1.1.1 Additional Module

Table 8.1-2
ADDITIONAL MODULES

Module	Reference	Presence of Module
Image Plane	Table 8.1-16	ANAP

**Table 8.1-3** 

# 8.1.1.2 Comprehensive Structured Report IOD

IOD OF CREATED COMPREHENSIVE STRUCTURED REPORT SOP INSTANCES

IE	Module	Reference	Presence of Module
Patient	Patient	Table 8.1-4	ALWAYS
Study	General Study	Table 8.1-5	ALWAYS
Study	Patient Study	Table 8.1-6	ALWAYS
Series	SR Document Series	Table 8.1-18	ALWAYS
Equipment	General Equipment	Table 8.1-8	ALWAYS
	SR Document General	Table 8.1-19	ALWAYS
Document	SR Document Content	Table 8.1-20	ALWAYS
	SOP Common	Table 8.1-21	ALWAYS

## 8.1.1.3 Common Modules

Table 8.1-4
PATIENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient's Name	0010,0010	PN	From MWL or User Input. Values supplied via Modality Worklist will be entered as received. Values supplied via user input will contain first 3 components (Last^First^Middle). Maximum 64 characters.	VNAP	MWL/U SER
Patient ID	0010,0020	LO	From MWL, user input or generated by device. Maximum 64 characters.	ALWAYS	MWL/U SER/A UTO
Patient's Birth Date	0010,0030	DA	From MWL or user input	VNAP	MWL/U SER
Patient's Sex	0010,0040	cs	From MWL or user input	VNAP	MWL/U SER

Table 8.1-5
GENERAL STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Study Instance UID	0020,000D	UI	From MWL or generated by device	ALWAYS	MWL/A UTO
Study Date	0008,0020	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Study Time	0008,0030	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Referring Physician's Name	0008,0090	PN	From MWL or user input	VNAP	MWL/U SER
Study ID	0020,0010	SH	From Requested Procedure UID or System generate : Study Date + Study Time <yyyymmddhhmmss></yyyymmddhhmmss>	ALWAYS	AUTO

Accession Number	0008,0050	SH	From MWL or user input	VNAP	MWL/U SER
Study Description	0008,1030	LO	From MWL (Scheduled procedure step description, Requested procedure description or Code Meaning of Scheduled procedure step) or user input	ANAP	MWL/U SER
Referenced Study Sequence	0008,1110	SQ	From MWL	ANAP	MWL
> Referenced SOP Class UID	0008,1150	UI	From MWL	ANAP	MWL
> Referenced SOP Instance UID	0008,1155	UI	From MWL	ANAP	MWL
Procedure Code Sequence	0008,1032	SQ	From MWL	ANAP	MWL

Table 8.1-6
PATIENT STUDY MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Patient's Size	0010,1020	DS	From MWL or user input	ANAP	MWL/U SER
Patient's Weight	0010,1030	DS	From MWL or user input	ANAP	MWL/U SER

Table 8.1-7
GENERAL SERIES MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Modality	0008,0060	CS	US	ALWAYS	AUTO
Series Instance UID	0020,000E	UI	Generated by device	ALWAYS	AUTO

Series Number	0020,0011	IS	Generated by device, increments from "1" in each study	ALWAYS	AUTO
Series Date	0008,0021	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Series Time	0008,0031	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Performing Physician's Name	0008,1050	PN	From MWL or user input	ANAP	MWL/US ER
Operators' Name	0008,1070	PN	From user input	ANAP	USER
Referenced Performed Procedure Step Sequence	0008,1111	SQ	Identifies the MPPS SOP Instance to which this image is related	ALWAYS	MPPS
> Referenced SOP Class UID	0008,1150	UI	MPPS SOP Class UID "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
> Referenced SOP Instance UID	0008,1155	UI	MPPS SOP Instance UID	ALWAYS	MPPS
Request Attributes Sequence	0040,0275	SQ	Zero or 1 item will be present	ANAP	AUTO
> Requested Procedure ID	0040,1001	SH	From MWL	ANAP	MWL
> Scheduled Procedure Step ID	0040,0009	SH	From MWL	ANAP	MWL
> Scheduled Procedure Step Description	0040,0007	LO	From MWL	ANAP	MWL
> Scheduled Protocol Code Sequence	0040.0008	SQ	From MWL	ANAP	MWL
Performed Procedure Step ID	0040,0253	SH	Same as MPPS	ALWAYS	MPPS

Performed					
Procedure Step	0040,0244	DA	Same as Study Date	ALWAYS	AUTO
Start Date					
Performed					
Procedure Step	0040,0245	TM	Same as Study Time	ALWAYS	AUTO
Start Time					
Performed					MWL/US
Procedure Step	0040,0254	LO	Same as Study Description	ANAP	ER
Description					EK

Table 8.1-8
GENERAL EQUIPMENT MODULE OF CREATED SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Manufacturer	0008,0070	LO	"SAMSUNG MEDISON CO., LTD."	ALWAYS	AUTO
Institution Name	0008,0080	LO	From user input	ANAP	CONFIG
Station Name	0008,1010	SH	From user input	ANAP	CONFIG
Manufacturer's Model Name	0008,1090	LO	"RS85"	ALWAYS	AUTO
Device Serial Number	0018,1000	LO	Generated by device	ALWAYS	AUTO
Software Versions	0018,1020	LO	Generated by device	ALWAYS	AUTO

### 8.1.1.4 US or US Multiframe Image Module

Table 8.1-9
GENERAL IMAGE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance	0020,0013	)13   IS	Generated by device, increments	ALWAYS	AUTO
Number			from "1" in each series	ALWAIS	
Patient	0020 0020	00	CS NULL		
Orientation	0020,0020 CS	CS			
Content Date	0008,0023	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO

Content Time	0008,0033	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Image Type	0008,0008	cs	"ORIGINAL" and "PRIMARY"	ALWAYS	AUTO
Acquisition Date	0008,0022	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Acquisition Time	0008,0032	ТМ	<hhmmss></hhmmss>	ALWAYS	AUTO
Acquisition DateTime	0008,002A	DT	<yyyymmddhhmmss></yyyymmddhhmmss>	ALWAYS	AUTO
Lossy Image Compression	0028,2110	CS	US = "00" (uncompressed) or  "01" (lossy compressed)  US-MF = "01" (lossy compressed)	ALWAYS	AUTO
Lossy Image Compression Ratio	0028,2112	DS	Used if (0028, 2110) = "01", Calculated by device	ANAP	AUTO
Lossy Image Compression Method	0028,2114	cs	"ISO_10918_1", used if (0028,2110) = "01"	ANAP	AUTO

Table 8.1-10
IMAGE PIXEL MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Samples per Pixel	0028,0002	US	"3" for RGB or YBR_FULL_422 "1" for MONOCHROME2	ALWAYS	AUTO
Photometric Interpretation	0028,0004	cs	Uncompressed = "RGB" or  "MONOCHROME2"  Compressed = "YBR_FULL_422"	ALWAYS	AUTO
Rows	0028,0010	US	US = "872", US-MF = "480"	ALWAYS	AUTO
Columns	0028,0011	US	US = "1280", US-MF = "640"	ALWAYS	AUTO
Bits Allocated	0028,0100	US	"8"	ALWAYS	AUTO
Bits Stored	0028,0101	US	"8"	ALWAYS	AUTO
High Bit	0028,0102	US	"7"	ALWAYS	AUTO
Pixel Representation	0028,0103	US	"0"	ALWAYS	AUTO

		OW			
D: 15 :	7550 0040			A L \A \ A \ \ C	ALITO
Pixel Data	7FE0,0010	or	Generated by device	ALWAYS	AUTO
-		ОВ			
Planar	0028,0006	US	"0"	ALWAYS	AUTO
Configuration					ALITO
Private Creator	7FE1,0010	LO	"MEDISON_US"	ANAP	AUTO
3D Volume	7FE1,1002	ОВ	3D Volume Data	ANAP	AUTO
Private Creator	7FE3 0010	LO	"S-DETECT	ANAP	AUTO
Image Mode	7FE3,1011	LO	"2D_STILL" or "S-DETECT"	ANAP	AUTO
Real StartX	7FE3,1022	IS	Left position of region	ANAP	AUTO
Real StartY	7FE3,1023	IS	Top position of region	ANAP	AUTO
Real Width	7FE3,1024	IS	Width of region	ANAP	AUTO
Real Height	7FE3,1025	IS	Heigth of region	ANAP	AUTO
Preset Name	7FE3,1026	LO	"BREAST" or "BREAST1"	ANAP	AUTO
Probe Position	7550 4000	DC	Conserted by device	ANIAD	ALITO
Angle	7FE3,1032	DS	Generated by device	ANAP	AUTO
Probe Position	7550 4000	D0		41145	ALITO
Distance	7FE3,1033	DS	Generated by device	ANAP	AUTO
Probe Angle	7FE3,1034	DS	Generated by device	ANAP	AUTO
Breast Position	7FE3,1035	LO	"L" or "R"	ANAP	AUTO
D:	0554 0000		"Samsung Contrast	41145	41170
Private Creator	8FF1,0060	LO	Quantification"	ANAP	AUTO
Private Creator	0554 0004		".4 O"	41145	ALITO
Data Version	8FF1,6001	LO	"1.0"	ANAP	AUTO
Log-					
Compression	8FF1,6030	DS	Generated by device	ANAP	AUTO
Dynamic Range					
Total Gain	8FF1,6031	DS	Generated by device	ANAP	AUTO
Anti-Log Law	0554 5555	5.0			
Vector	8FF1,6032	DS	Generated by device	ANAP	AUTO
TGC Contrast					
Gain Vector	8FF1,6034	DS	Generated by device	ANAP	AUTO
Palette Name	8FF1,6035	LO	Generated by device	ANAP	AUTO
Contrast Red	·		·		
Palette Date	8FF1,6036	IS	Generated by device	ANAP	AUTO
		<u> </u>			L

Contrast Green	0554 6027	10	Congreted by device	ANAD	ALITO
Palette Data	8FF1,6037	IS	Generated by device	ANAP	AUTO
Contrast Blue	8FF1,6038	IS	Generated by device	ANAP	AUTO
Palette Data	0111,0030	13	Generated by device	ANAF	AUTO
Transducer	8FF1,6040	LO	"CA1-7A" or "LA3-12A"	ANAP	AUTO
Name	0111,0040	LO	CAT-TA OF EAS-12A	AINAI	AOTO
Transducer	8FF1,6041	DS	Generated by device	ANAP	AUTO
frequence	0111,0041	D3	Generated by device	ANAF	AUTO
Vector of					
Destruction	8FF1,6050	DS	Generated by device	ANAP	AUTO
Frame Number					
Number of					
Destruction	8FF1,6051	DS	Generated by device	ANAP	AUTO
Frames					
Nonlinear	8FF1,6052	cs	"CEUS"	ANAP	AUTO
Contrast Mode	0001,0002	CS	CEUS	ANAP	AUTO
Allow	9551 6052	LO	"True" or "False"	ANAP	AUTO
Quantification	8FF1,6053		Tiue of Faise	AINAF	AUTU

Table 8.1-11
CINE MODULE OF CREATED US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Frame Time	0018,1063	DS	Milliseconds	ANAP	AUTO
Cine Rate	0018,0040	IS	Frames per second	ANAP	AUTO

Table 8.1-12
MULTI-FRAME MODULE OF CREATED US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Number of	0028,0008	IS	Numbers of Frames	ANAP	AUTO
Frames	0026,0006		Numbers of Frances	, , , , ,	AOTO
Frame					
Increment	0028,0009	AT	"1577059" : (0018, 1063)	ANAP	AUTO
Pointer					

Table 8.1-13
US REGION CALIBRATION MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Sequence of Ultrasound Regions	0018,6011	SQ	Generated by device. A sequence is present for each region in the system display.	ANAP	AUTO
> Region Location Min x0	0018,6018	UL	Left position of region	ALWAYS	AUTO
> Region Location Min y0	0018,601A	UL	Top position of region	ALWAYS	AUTO
> Region Location Max x1	0018,601C	UL	Right position of region	ALWAYS	AUTO
> Region Location Max y1	0018,601E	UL	Bottom position of region	ALWAYS	AUTO
> Physical Units X Direction	0018,6024	US	2D Image: 0003H = cm M-Mode: 0004H = seconds Doppler: 0004H = seconds	ALWAYS	AUTO
> Physical Units Y Direction	0018,6026	US	2D Image : 0003H = cm M-Mode : 0003H = cm Doppler : 0005H = hertz or 0007H = cm/sec	ALWAYS	AUTO
> Physical Delta	0018,602C	FD	The physical value per pixel increment	ALWAYS	AUTO
> Physical Delta Y	0018,602E	FD	The physical value per pixel increment	ALWAYS	AUTO
> Region Spatial Format	0018,6012	US	2D Tissue : 0001H M-Mode Tissue or flow : 0002H Spectral (CW or PW Doppler) : 0003H	ALWAYS	AUTO

> Region Data Type	0018,6014	US	Tissue: 0001H Color Flow: 0002H PW Spectral Doppler: 0003H CW Spectral Doppler: 0004H	ALWAYS	AUTO
> Region Flags	0018,6016	UL	See DICOM PS 3.3 C.8.5.5.1.3	ALWAYS	AUTO

Table 8.1-14
US IMAGE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence	Source
	9		3 4.40	of Value	
Samples Per	0028,0002	US	"3" for RGB or YBR_FULL_422	ALWAYS	AUTO
Pixel	0020,0002	03	"1" for MONOCHROME2	ALWATS	AUTO
Photometric			Uncompressed = "RGB" or		
	0028,0004	cs	"MONOCHROME2"	ALWAYS	AUTO
Interpretation			Compressed = "YBR_FULL_422"		
Bits Allocated	0028,0100	US	"8"	ALWAYS	AUTO
Bits Stored	0028,0101	US	"8"	ALWAYS	AUTO
High Bit	0028,0102	US	"7"	ALWAYS	AUTO
Planar	0020 0006	US	"0"	ALWAYS	AUTO
Configuration	0028,0006	05	U	ALWATS	AUTO
Pixel	0000 0400	US	"0"	ALWAYS	AUTO
Representation	0028,0103	03	0	ALWATS	AUTO
Image Type	0008,0008	CS	"ORIGINAL" and "PRIMARY"	ALWAYS	AUTO
I con les con			US = "00" (uncompressed) or		
Lossy Image	0028,2110	cs	"01" (lossy compressed)	ALWAYS	AUTO
Compression			US-MF = "01" (lossy compressed)		

Table 8.1-15
VOI LUT MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Window Center	0028,1050	DS	default : "128"	ALWAYS	CONFIG
Window Width	0028,1051	DS	default : "256"	ALWAYS	CONFIG

Table 8.1-16
IMAGE PLANE MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Pixel Spacing	0028,0030	DS	In case that All following conditions are satisfied, This attribute is inserted.  1. User shall select the option activating Pixel Spacing at the DICOM Setup.  2. Image shall have regions consisting of only tissue and color  3. For all regions, Units for X and Y direction shall be "cm"  4. For all regions, Delta X of US Region calibration module shall have the same value.  5. For all regions, Delta Y of US Region calibration module shall have the same value.	ANAP	AUTO

Table 8.1-17
SOP COMMON MODULE OF CREATED US OR US MULTIFRAME SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
SOP Class UID	0008,0016	UI	US = "1.2.840.10008.5.1.4.1.1.6.1" US-MF = "1.2.840.10008.5.1.4.1.1.3.1"	ALWAYS	AUTO
SOP Instance UID	0008,0018	UI	Generated by device	ALWAYS	AUTO
Specific Character Set	0008,0005	CS	Ref. Section 6 SUPPORT OF CHARACTER SETS	ALWAYS	AUTO

### 8.1.1.5 Comprehensive Structured Report Modules

**Table 8.1-18** 

### SR DOCUMENT SERIES MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Modality	0008,0060	CS	SR	ALWAYS	AUTO
Series Instance UID	0020,000E	UI	Generated by device	ALWAYS	AUTO
Series Number	0020,0011	IS	"2"	ALWAYS	AUTO
Referenced Performed Procedure Step Sequence	0008,1111	SQ	Identifies the MPPS SOP Instance to which this image is related	ALWAYS	MPPS
> Referenced SOP Class UID	0008,1150	UI	MPPS SOP Class UID "1.2.840.10008.3.1.2.3.3"	ALWAYS	MPPS
> Referenced SOP Instance UID	0008,1155	UI	MPPS SOP Instance UID	ALWAYS	MPPS

Table 8.1-19
SR DOCUMENT GENERAL MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Instance Number	0020,0013	IS	Generated by device, increments from "1" in each series	ALWAYS	AUTO
Completion Flag	0040,A491	cs	"PARTIAL"	ALWAYS	AUTO
Verification Flag	0040,A493	cs	"UNVERIFIED"	ALWAYS	AUTO
Content Date	0008,0023	DA	<yyyymmdd></yyyymmdd>	ALWAYS	AUTO
Content Time	0008,0033	TM	<hhmmss></hhmmss>	ALWAYS	AUTO
Referenced Request Sequence	0040,A370	SQ	1 item will be present	ALWAYS	AUTO

> Study Instance	0020,000D	UI	From MWL or generated by device	ALWAYS	MWL/AUTO
> Referenced Study Sequence	0008,1110	SQ	From MWL	ANAP	MWL
>> Referenced SOP Class UID	0008,1150	UI	From MWL	ANAP	MWL
>> Referenced SOP Instance UID	0008,1155	UI	From MWL	ANAP	MWL
> Accession Number	0008,0050	SH	From MWL or user input	VNAP	MWL/USER
> Placer Order Number/Imaging Service Request	0040,2016	LO	NULL	VNAP	AUTO
> Filler Order Number/Imaging Service Request	0040,2017	LO	NULL	VNAP	AUTO
> Requested Procedure ID	0040,1001	SH	From MWL	VNAP	MWL
> Requested Procedure Description	0032,1060	LO	From MWL	VNAP	MWL
> Requested Procedure Code Sequence	0032,1064	SQ	From MWL	VNAP	MWL
Performed Procedure Code Sequence	0040,A372	SQ	NULL	VNAP	AUTO

Table 8.1-20
SR DOCUMENT CONTENT MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag	VR	Value	Presence of Value	Source
Value Type	0040,A040	cs	"CONTAINER"	ALWAYS	AUTO
Concept Name	0040,A043	SQ	1 item will be present	ALWAYS	AUTO

Code Sequence				
		EV(125000, DCM, "OB-GYN Ultrasound Procedure Report") for OB-GYN		
> Include 'Code Sequence Macro'		EV(125100, DCM, "Vascular Ultrasound Procedure Report") for Vascular		
		EV(125200, DCM, "Adult Echocardiography Procedure Report") for Adult Echocardiography	ALWAYS	AUTO
		EV (99400, MDSN, "Urology Ultrasound Report") for Urology		
		EV (99500, MDSN, "SmallParts Ultrasound Report") for Small Parts		
		EV (111400, DCM, "Breast Imaging Report") for Breast		
Continuity of Content	0040,A050	"SEPARATE"	ALWAYS	AUTO
Content Template Sequence	0040,A504	1 item will be present	ALWAYS	AUTO
> Mapping Resource	0008,0105	"DCMR" for OB-GYN, Vascular, Adult Echocardiography and Breast  "MDSN" for Urologn and Small Parts	ALWAYS	AUTO

			"5000" for OB-GYN		
	0040,DB00		"5100" for Vascular		
> Template			"5200" for Adult Echocardiography	ALWAYS	AUTO
Identifier			"99400" for Urology		
			"99500" for Small Parts		
			"4200" for Breast		
Content Sequence	0040,A730	SQ	One or more items may be included in this sequence	ALWAYS	AUTO
> Relationship Type	0040,A010	cs	Ref. Section 9 STRUCTURED REPORT TEMPLATES	ALWAYS	AUTO
> Include Document Relationship Macro			Ref. Section 9 STRUCTURED REPORT TEMPLATES	ALWAYS	AUTO
> Include Document Content Macro			Ref. Section 9 STRUCTURED REPORT TEMPLATES	ALWAYS	AUTO

Table 8.1-21
SOP COMMON MODULE OF CREATED COMPREHENSIVE SR SOP INSTANCES

Attribute Name	Tag VR		Value	Presence of Value	Source	
SOP Class	0008,0016	UI	"1.2.840.10008.5.1.4.1.1.88.33"	ALWAYS	AUTO	
UID	0008,0010	Oi	1.2.040.10000.3.1.4.1.1.00.33	ALWATS	AUTO	
SOP Instance	0008,0018	UI	Generated by device	ALWAYS	AUTO	
UID	0008,0018	Oi	Generated by device	ALWATS	AUTU	
Specific	0000 0005		Ref. Section 6 SUPPORT OF	ALWAYS	AUTO	
Character Set	0008,0005	CS	CHARACTER SETS	ALWAYS	AUTU	

### 8.1.2 Used Fields in received IOD by application

The RS85 storage application does not receive SOP Instances. The usage of attributes received via Modality Worklist is described in section 4.2.2.3.1.3.

### 8.1.3 Attribute mapping

The relationships between attributes received via Modality Worklist, stored in acquired images and communicated via MPPS are summarized in the Table below. The format and conversions used in Table are the same as the corresponding table in IHE Technical Framework, Rev. 7.0 May 15, 2006, vol. II, Appendix A.

Table 8.1-22
ATTRIBUTE MAPPING BETWEEN MODALITY WORKLIST, IMAGE AND MPPS

Modality Worklist	Image IOD	MPPS IOD
Patient's Name	Patient's Name	Patient's Name
Patient ID	Patient ID	Patient ID
Patient's Birth Date	Patient's Birth Date	Patient's Birth Date
Patient's Sex	Patient's Sex	Patient's Sex
Patient's Size	Patient's Size	
Patient's Weight	Patient's Weight	
Referring Physician's Name	Referring Physician's Name	
		Scheduled Step Attributes Sequence
Study Instance UID	Study Instance UID	> Study Instance UID
Referenced Study Sequence	Referenced Study Sequence	> Referenced Study Sequence
Accession Number	Accession Number	> Accession Number
	Request Attributes Sequence	
Requested Procedure ID	> Requested Procedure ID	> Requested Procedure ID
Requested Procedure Description		> Requested Procedure Description
Scheduled Procedure Step ID	> Scheduled Procedure Step ID	> Scheduled Procedure Step ID
Scheduled Procedure Step	> Scheduled Procedure Step	Cohodulad Dragadura Ctan Deparintian
Description	Description	> Scheduled Procedure Step Description
Scheduled Protocol Code	> Scheduled Protocol Code	> Scheduled Protocol Code Sequence
Sequence	Sequence	> Scheduled Flotocol Code Sequence
Requested Procedure ID	Study ID	Study ID
	Performed Procedure Step ID	Performed Procedure Step ID

	Performed Procedure Step Start	
	Date	Performed Procedure Step Start Date
	Performed Procedure Step Start	
	Time	Performed Procedure Step Start Time
	Performed Procedure Step	
	Description	Performed Procedure Step Description
		Performed Series Sequence
Requested Procedure Code Sequence	Procedure Code Sequence	Procedure Code Sequence
	Referenced Performed Procedure	
	Step Sequence	
	> Referenced SOP Class UID	SOP Class UID
	> Referenced SOP Instance UID	SOP Instance UID
Scheduled Performing Physician's Name	Performing Physicians Name	Performing Physicians Name

### 8.1.4 Coerced/Modified Fields

The Modality Worklist AE will truncate attribute values received in the response to a Modality Worklist Query if the value length is longer than the maximum length permitted by the attribute's VR.

### 8.2 DATA DICTIONARY OF PRIVATE ATTRIBUTES

The Private Attributes added to create SOP Instances are listed in the Table below. RS85 reserves blocks of private attributes in groups 7FE1, 7FE3 and 8FF1. Further details on usage of these private attributes are contained in Section 8.1

Table 8.2-1

DATA DICTIONALY OF PRIVATE ATTRIBUTES IN GROUP 7FE1 (3D Volume)

Tag	Attribute Name	VR	VM
(7FE1, 0010)	Private Creator	LO	1
(7FE1, 1002)	3D Volume	ОВ	1

Table 8.2-2
DATA DICTIONALY OF PRIVATE ATTRIBUTES IN GROUP 7FE3 (S-Detect)

Tag	Attribute Name	VR	VM
(7FE3, 0010)	Private Creator	LO	1
(7FE3, 1011)	Image Mode	LO	1
(7FE3, 1022)	Real StartX	IS	1
(7FE3, 1023)	Real StartY	IS	1
(7FE3, 1024)	Real Width	IS	1
(7FE3, 1025)	Real Height	IS	1
(7FE3, 1026)	Preset Name	LO	1
(7FE3, 1032)	Probe Position Angle	DS	1
(7FE3, 1033)	Prove Position Distance	DS	1
(7FE3, 1034)	Probe Angle	DS	1
(7FE3, 1035)	Breast Position	LO	1

Table 8.2-3
DATA DICTIONALY OF PRIVATE ATTRIBUTES IN GROUP 8FF1 (Vuebox)

Tag	Attribute Name	VR	VM
(8FF1, 0060)	Private Creator	LO	1
(8FF1, 6001)	Private Creator Data Version	LO	1
(8FF1, 6030)	Log-Compression Dynamic Range	DS	1
(8FF1, 6031)	Total Gain	DS	1
(8FF1, 6032)	Anti-Log Law Vector	DS	256
(8FF1, 6034)	TGC Contrast Gain Vector	DS	256
(8FF1, 6035)	Palette Name	LO	1
(8FF1, 6036)	Contrast Red Palette Date	IS	256
(8FF1, 6037)	Contrast Green Palette Data	IS	256
(8FF1, 6038)	Contrast Blue Palette Data	IS	256
(8FF1, 6040)	Transducer Name	LO	1
(8FF1, 6041)	Transducer frequence	DS	1
(8FF1, 6050)	Vector of Destruction Frame Number	DS	N
(8FF1, 6051)	Number of Destruction Frames		1
(8FF1, 6052)	Nonlinear Contrast Mode	CS	1

(8FF1, 6053)	Allow Quantification	LO	1
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### 8.3 CODED TERMINOLOGY AND TEMPLATES

The Workflow AE is capable of supporting arbitrary coding schemes for Procedure and Protocol Codes. The contents of Requested Procedure Code Sequence (0032, 1064) and Scheduled Protocol Code Sequence (0040, 0008) supplied in Worklist Items will be mapped to Image IOD and MPPS attributes as described in Section 8.1.3

#### 8.4 STANDARD EXTENDED / SPECIALIZED / PRIVATE SOP CLASSES

No Specialized or Private SOP Classes are supported.

#### 8.4.1 US OR US MULTIFRAME IMAGE STORAGE SOP CLASS

The US or US Multiframe Image Storage SOP Classes are extended to create a Standard Extended SOP Class by addition of standard and private attributes to the created SOP Instances as documented in section 8.1

3D Volume Data is transferred to the configured Storage Server, if "Send 3D Volume" option is enabled in the Setup Dialog.

#### 8.5 PRIVATE TRANSFER SYNTAXES

No Private Transfer Syntaxes are supported.

### 9 STRUCTURED REPORT TEMPLATES

This Section uses the following forms for describing Structured Report Templates used in RS85.

	Rel with Parent	VT	Concept Name	Presence of Value	Comments
1					
2					

	NL	REL	VT	Concept Name	Unit / CODE Value	Ref TID	Ref CID	Comments or Label
A-1								
A-2								

Rel with Parent Relationship
VT Value Type

Concept Name Any constraints on Concept Name are specified in this filed as defined or enumerated

coded entries, or as baseline or defined context groups.

Presence of Value Ref. Section 8.1.1

Comments Description about Reference section or used values.

Label Name which is indicated in the system

NL The nesting level of Content Items is denoted by ">" symbols

REL Relationship

Unit/Code, Value Applied unit, enumerated coded entries, or the reference of Context Group.

Ref TID Referenced Template ID Number

Ref CID Referenced Context ID Number. The left side of "/" shows a CID value applied in

"Concept Name" column and the right side shows a CID value applied in "Unit/Code,

Value" column. (e.g. 228/12012)

### 9.1 OB-GYN STRUCTURED REPORT TEMPLATE

## 9.1.1 OB-GYN Ultrasound Report Templates(TID 5000)

Table 9.1-1
OB-GYN ULTRASOUND PROCEDURE REPORT TEMPLATE

				Presence of		
	Rel with Parent	VT	Concept Name	Value	Comments	
4		CONTAINED	EV (125000, DCM, "OB-GYN Ultrasound	ALMANO		
1		CONTAINER	Procedure Report")	ALWAYS		
2	HAS CONCEPT	INCLUDE	DTID (1204) Language of Content Item			
2	MOD	INCLUDE	and Descendants			
3	HAS OBS	INCLUDE	DTID (1001) Observation Contact	ANAD	Ref. Section 9.1.1.1	
3	CONTEXT	INCLUDE	DTID (1001) Observation Context	ANAP	Ref. Section 9.1.1.1	
4	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics	ANAP	Ref. Section 9.1.1.2	
5	CONTAINS	CONTAINER	DT (111028, DCM, "Image Library")			
6	CONTAINS	IMAGE	No Purpose of reference			
7	CONTAINS	INCLUDE	DTID (5002) OB-GYN Procedure	ANAD	Def Castion 0.1.1.2	
'	CONTAINS	INCLUDE	Summary Section	ANAP	Ref. Section 9.1.1.3	
8	CONTAINS	INCLUDE	DTID (5004) Fetal Biometry Ratio Section	ANAP	Ref. Section 9.1.1.4	
9	CONTAINS	INCLUDE	DTID (5005) Fetal Biometry Section	ANAP	Ref. Section 9.1.1.5	
10	CONTAINS	INCLUDE	DTID (5006) Long Bones Section	ANAP	Ref. Section 9.1.1.6	
11	CONTAINS	INCLUDE	DTID (5007) Fetal Cranium Section	ANAP	Ref. Section 9.1.1.7	
12	CONTAINS	INCLUDE	DTID (5009) Fetal Biophysical Profile	ANAP	Ref. Section 9.1.1.8	
12	CONTAINS	INOLOBE	Section	AIVAI	itter. decilor 9.1.1.0	
13	CONTAINS	INCLUDE	DTID (5011) Early Gestation Section	ANAP	Ref. Section 9.1.1.9	
14	CONTAINS	INCLUDE	DTID (5010) Amniotic Sac Section	ANAP	Ref. Section 9.1.1.10	
15	CONTAINS	INCLUDE	DTID (5015) Pelvis and Uterus Section	ANAP	Ref. Section 9.1.1.11	
16	CONTAINS	INCLUDE	DTID (5012) Ovaries Section	ANAP	Ref. Section 9.1.1.12	
17	CONTAINS	INCLUDE	DTID (5013) Follicles Section	ANAP	Ref. Section 9.1.1.13	
18	CONTAINS	INCLUDE	DTID (5013) Follicles Section	ANAP	Ref. Section 9.1.1.14	
19	CONTAINS	INCLUDE	DTID (SM99003) Cyst Section	ANAP	Ref. Section 9.1.1.15	
20	CONTAINS	INCLUDE	DTID (SM99004) Fibroid Section	ANAP	Ref. Section 9.1.1.16	
24	CONTAINS	INCLUDE	DTID (5025) OB-GYN Fetal Vascular	ANAD	Pof Soction 0.4.4.47	
21	CONTAINS	INCLUDE	Measurement Group	ANAP	Ref. Section 9.1.1.17	
22	CONTAINS	INCLUDE	DTID (5026) OB-GYN Pelvic Vascular	ANAP	Ref. Section 9.1.1.18	

			Measurement Group			
23	CONTAINS	INCLUDE	DTID (SM99005) OB-GYN Mass and	ANAP	Ref. Section 9.1.1.19	
23	23 CONTAINS	INCLUDE	Flow Section	ANAP	Ref. Section 9.1.1.19	
24	CONTAINS	INCLUDE	DTID (SM99010) OB-GYN User Creation	ANAP	Ref. Section 9.1.1.20	
24	24   CONTAINS	INCLUDE	Group Section	ANAF	Ref. Section 9.1.1.20	

### 9.1.1.1 Observation ConText (TID 1001)

Table 9.1-2
OBSERVATION CONTEXT IN OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
A-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM,	
A-1	TIAS OBS CONTEXT	CODE	Type")	"Person")	
A-2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person		Pof Physician
A-2	HAS OBS CONTEXT	FINAIVIE	Observer Name")		Ref. Physician
A-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
A-4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		Last Name,First
A-4	A-4 HAS OBS CONTEXT	FINAIVIE	(121029,DOW, Subject Name)		Name
A-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate
A-5	HAS OBS CONTEXT	DATE	Date")		Birtribate
				(M, DCM, "Male")	Gender
A-6	HAS OBS CONTEXT	CODE	(424022 DCM "Subject Soy")	(F, DCM, "Female")	Gender
A-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(U, DCM, "Unknown	
				sex")	
A-7	HAS OBS CONTEXT	NUM	(121033,DCM, "Subject Age")	(mo, UCUM, "month")	Not Used

### 9.1.1.2 Patient Characteristics (TID 5001)

Table 9.1-3
PATIENT CHARACTERISTICS IN OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
A O CONTAING	AINIO CONTAINITED	(121118,DCM "Patient			
A-0	A-8   CONTAINS	CONTAINTER	Characteristics")		
A-8-1	CONTAINS	TEXT	(121106,DCM, "Comment")		Description
A-8-2	CONTAINS	NUM	(8302-2, LN, "Patient Height")	(cm, UCUM,	Height

				"centimeter")	
				(mm, UCUM, "millimeter")	
A-8-3	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight
A-8-4	CONTAINS	NUM	(11996-6, LN "Gravida")	(1, UCUM, "no units")	Gravida
A-8-5	CONTAINS	NUM	(11977-6, LN, "Para")	(1, UCUM, "no units")	Para
A-8-6	CONTAINS	NUM	(11612-9, LN, "Aborta")	(1, UCUM, "no units")	Aborta
A-8-7	CONTAINS	NUM	(33065-4, LN, "Ectopic	(1, UCUM, "no units")	Ectopic
A-0-7	CONTAINS	INUIVI	Pregnancies")	(1, OCOIVI, 110 utilits )	Есторіс

## 9.1.1.3 OB-GYN Summary Section (TID 5002)

Table 9.1-4
OB-GYN Procedure Summary Section

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-10	CONTAINS	CONTAINER	(121111, DCM, "Summary")			
A-10-1	CONTAINS	DATE	Context ID 12003 Extended OB-GYN Dates	yyyymmdd	Estab. Due Date	Ref. Table 9.1-22
A-10-2	CONTAINS	NUM	(11878-6, LN, "Number of Fetuses")	(1, UCUM, "no units")		
A-10-3	CONTAINS	TEXT	(12186, DCM, "Comment")		Comment	
A-10-4	CONTAINS	CONTAINER	(125008, DCM, "Fetus Summary")			
A-10-4-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			
A-10-4-2	CONTAINS	NUM	(11878-6, LN, "Number of Fetuses")		Gestations	
A-10-4-3	CONTAINS	NUM	(18185-9, LN, "Gestational Age")		AUA	
A-10-4-3	CONTAINS	WIDNI CHIRTI	(11885-1, LN, "Gestational Age by LMP")		GA(LMP)	
A-10-4-4	CONTAINS	NUM	(11727-5, LN, "Estimated Weight")	(kg, UCUM, "kg")	EFW	

A-10-4-4-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(Context ID 12014)OB Fetal Body Weight Equations and Tables		Ref. Table 9.1-42
A-10-4-5	CONTAINS	NUM	(11767-1, LN, "EFW percentile rank")	UCUM percentile "percentile"	Pctl.(EFW)	
A-10-4-5-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(Context ID 12016)Estim ated Fetal Weight Percentile Equations and Tables		Ref.Table 9.1-44
A-10-4-6	CONTAINS	NUM	(11948-7, LN, "Fetal Heart Rate")	(bpm, UCUM "bpm")	Fetal HR	

## 9.1.1.4 OB-GYN Fetal Biometry Ratio Section (TID 5004)

### **Table 9.1-5**

### Fetal Biometry Ratio Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Comments
A-11	CONTAINS	CONTAINER	(125001, DCM, "Fetal Biometry Ratios")		
A-11-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")		
A-11-2	CONTAINS	NUM	(12004, CID, "Fetal Biometry Ratios")	(1, UCUM, "no units")	

		Context ID 12004 Extended		
CONTAINS	NUM	Fetal Biometry Ratios	(%, UCUM, "%")	Ref.Table 9.1-23
		Measurements		

### 9.1.1.5 OB-GYN Fetal Biometry Section (TID 5005)

Table 9.1-6
Fetal Biometry Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Comments
A-12	CONTAINS	CONTAINER	(125002, DCM, "Fetal Biometry")		
A-12-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")		
A-12-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")		
A-12-2-1	CONTAINS	NUM	Context ID 12005 Extended Fetal Biometry Measurements	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter") (cm2, UCUM, "Square centimeter")	Ref. Table 9.1-24
A-12-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	
A-12-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "days")	

A-12-2-2-1	INFERRED FROM	CODE	(121420 , DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables	Ref. Table 9.1-41
A-12-2-3	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank") (125013, DCM, "Growth Z-score")	(percentile, UCUM, "percentile")	
A-12-2-3-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015) Fetal Growth Equations and Tables	Ref. Table 9.1-43

### 9.1.1.6 OB-GYN Fetal Long Bones Section (TID 5006)

# Table 9.1-7 Long Bones Sections in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Comments
A-13	CONTAINS	CONTAINER	(125003, DCM, "Fetal Long Bones")		
A-13-1	HAS OBS CONTEXT	TEXT	(11951-1, LN,"FetusID")		Will be present if more than one fetus.
A-13-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")		
A-13-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	

A-13-2-1	CONTAINS	NUM	Context ID 12006 Extended Fetal Long Bones Biometry Measurements	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	Ref. Table 9.1-25
A-13-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	
A-13-2-1-2	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(ContextID 7304) Implant Target Anatomy	Ref. Table 9.1-36
A-13-2-1-2- 1	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT,  "Right")  (G-A101, SRT,  "Left")	
A-13-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "day")	
A-13-2-2-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables	Ref. Table 9.1-41
A-13-2-3	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")	
A-13-2-3-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-43

## 9.1.1.7 OB-GYN Fetal Cranium Section (TID 5007)

Table 9.1-8
Fetal Cranium Sections in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Comments
A-14	CONTAINS	CONTAINER	(125004, DCM, "Fetal Cranium")		
A-14-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "FetusID")		Will be present if more than one fetus.
A-14-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")		
A-14-2-1	CONTAINS	NUM	Context ID 12007 Extended Fetal Cranium	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter") (cm2, UCUM, "Square centimeter")	Ref. Table 9.1-26
A-14-2-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	
A-14-2-1-2	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(ContextID 12022) Fetal Cranium Anatomic Sites	Ref. Table 9.1-37
A-14-2-1-2-	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	
A-14-2-2	CONTAINS	NUM	(18185-9, LN, "Gestational Age")	(d, UCUM, "day")	
A-14-2-2-1	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12013)Gestational Age Equations and Tables	Ref. Table 9.1-41

	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")	
A-14-2-3	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-43

## 9.1.1.8 OB-GYN Fetal Biophysical Profile Section (TID 5009)

# Table 9.1-9 Fetal Biophysical Profile Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-15	CONTAINS	CONTAINER	(125006, DCM, "Biophysical Profile")			
A-15-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			
		(11631-9, LN, "Gross Body Movement")		Fetal Movements	value as entered in the Report.	
		NUM	(11632-7, LN, "Fetal Breathing")	({0:2}, UCUM, "range 0:2")	Fetal Breathing Movements	value as entered in the Report.
A-15-2	CONTAINS		(11635-0, LN, "Fetal Tone")		Fetal Tone	value as entered in the Report.
			(11635-5, LN, "Fetal Heart Reactivity")		Nonstress Test	value as entered in the Report.
			(11630-1, LN, "Amniotic Fluid Volume")		Amniotic Fluid Volume	value as entered in the Report.

	(11634-3, LN, "Biophysical Profile Sum Score")	(1, UCUM, "no units")	Total	Automatically calculates the sum of the scores.	
				300163.	ı

### 9.1.1.9 OB-GYN Early Gestation Section (TID 5011)

### Table 9.1-10

### Early Gestation Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	Label	Comments
A-16	CONTAINS	CONTAINER	(125009, DCM, "Early Gestation")			
A-16-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")			
A-16-2	CONTAINS	CONTAINER	(125005, DCM, "Biometry Group")			
				(cm, UCUM,		
			Context ID 12009	"centimeter")		
A 16 2 1	CONTAINS	NUM	Extended Early	(mm, UCUM,		Ref. Table
A-16-2-1			Gestation Biometry	"millimeter")		9.1-28
			Measurements	(cm2, UCUM, "Square		
				centimeter")		
	HAS		(121401, DCM,	Common CID-		
A-16-2-1-1	CONCEPT	CODE	"Derivation")	Derivation		
	MOD		20	2 6.11 4.10 1.1		
A-16-2-2	CONTAINS	NUM	(18185-9, LN	(d, UCUM, "day")		
			Gestational Age	(-, ,, ,		
			(121420, DCM,	(ContextID		
	INFERRED		"Equation")	12013)Gestational		Ref. Table
A-16-2-2-1	FROM	CODE	(121424, DCM,	Age Equations and		9.1-41
			"Table of Values")	Tables		

	CONTAINS	NUM	(125012, DCM, "Growth Percentile Rank")	(percentile, UCUM, "percentile")	
A-16-2-3	INFERRED FROM	CODE	(121420, DCM, "Equation") (121424, DCM, "Table of Values")	(ContextID 12015)Fetal Growth Equations and Tables	Ref. Table 9.1-43

## 9.1.1.10 OB-GYN Amniotic Sac Section (TID 5010)

# Table 9.1-11 Amniotic Sac Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-17	CONTAINS	CONTAINER	(121070, DCM, "Findings")		AFI	
A-17-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-F1300, SRT, "Amniotic Sac")		
			(11627-7, LN, "Amniotic Fluid Index")	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	AFI	
A-17-2	CONTAINS	NUM	Context ID 12008 Extended OB- GYN Amniotic Sac			Ref. Table 9.1-27
			(99004-01, MDSN, "MVP")		Max Vertical Pocket	
A-17-2-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

## 9.1.1.11 OB-GYN Pelvis and Uterus Section (TID 5015)

### **Table 9.1-12**

### Pelvis and Uterus Section in OB-GYN SR

	DEL	VT	Concept Name	Unit / CODE	RS85 Label	Comments
	REL	VT	Concept Name	Value	KS05 Label	Comments
			(125011, DCM,			
A-18	CONTAINS	CONTAINER	"Pelvis and			
			Uterus")			
A 40 4	CONTAING	CONTAINED	(T-83000, SRT,			
A-18-1	CONTAINS	CONTAINER	"Uterus")			
				(cm, UCUM,		
			(11865-3, LN,	"centimeter")		
			"Uterus Width")	(mm, UCUM,	Uterus W	
				"millimeter")		
A-18-1-1	CONTAINS	NUM	(11842-2, LN, "Uterus Length")		Uterus L	
			(11859-6, LN, "Uterus Height")		Uterus H	
A-18-1-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-18-1-2	CONTAINS	NUM	(33192-6, LN, "Uterus Volume")	(ml, UCUM, "milliliter")	Uterus Vol.	
A-18-2	CONTAINS	NUM	Context ID 12011 Extended Ultrasound Pelvis and Uterus	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")		Ref. Table 9.1-29
A-18-2-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-18-3	CONTAINS	NUM	Cervix Volume	(ml, UCUM, "milliliter")	Cervix Vol.	

## 9.1.1.12 OB-GYN Ovaries Section (TID 5012)

Table 9.1-13
Ovaries Section in OB-GYN SR

				Unit / CODE	WS80A	
	REL	VT	Concept Name	Value	Label	Comments
A-19	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
A-19-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-87000, SRT, "Ovary")		
A-19-2	CONTAINS	CONTAINER	(T-87000, SRT, "Ovary")			
		(11829-9, LN, "Left Ovary Width")	(cm, UCUM,	Lt. Ovary W		
	0017444	CONTAINS NUM	(11840-6, LN, "Left Ovary Length")	"centimeter") (mm, UCUM, "millimeter")	Lt. Ovary L	
A-19-2-1	CONTAINS		(11857-0, LN, "Left Ovary Height")		Lt. Ovary H	
			(99005-29, MDSN, "Left Ovary Area")	(cm2, UCUM, "Square centimeter")	Lt. Ovary Area	
A-19-2-1- 1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-19-2-2	CONTAINS	NUM	(12164-0, LN, "Left Ovary Volume")	(ml, UCUM, "milliliter")	Lt. Ovary Vol.	
A-19-3	CONTAINS	CONTAINER	(T-87000, SRT, "Ovary")			
		NUM	(11830-7, LN, "Right Ovary Width")	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	Rt. Ovary W	
A-19-3-1 CON	CONTAINS		(11841-4, LN, "Right Ovary Length")		Rt. Ovary L	

			(11858-8, LN, "Right Ovary Height")		Rt. Ovary H	
			(99005-28, MDSN, "Right Ovary Area")	(cm2, UCUM, "Square centimeter")	Rt. Ovary Area	
A-19-3-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		
A-19-3-2	CONTAINS	NUM	(12165-7, LN, "Right Ovary Volume")	(ml, UCUM, "milliliter")	Rt. Ovary Vol.	

## 9.1.1.13 OB-GYN Follicles Section (TID 5013)

Table 9.1-14
Left Follicle Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85	Comments
	KEL	VI	Concept Name	Offit / CODE value	Label	
A-20	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
	HAS		(C COE2 CDT "Finding	/T 97600 CDT		
A-20-1	CONCEPT	CODE	DE L'ANDRE L	(T-87600, SRT,		
	MOD			"Ovarian Follicle")		
	HAS		(G-C171, SRT, "Laterality")	(G-A101, SRT,		
A-20-2	CONCEPT	CODE				
	MOD			"Left")		
A-20-3	CONTAINS	CONTAINER	(125007, DCM,			
A-20-3	CONTAINS	CONTAINER	"Measurement Group")			
A-20-3-1	HAS OBS	TEXT	(12510 DCM "Identifier")		"1", "2"	
A-20-3-1	CONTEXT	IEAI	(12510, DCM, "Identifier")			
A-20-3-2	CONTAINS	NUM	(GD705, SRT, "Volume")	(ml, UCUM,	Vol.	
A-20-3-2	CONTAINS	INUIVI	(GD705, SK1, Volume)	"milliliter")	VOI.	
A-20-3-3	CONTAINS	NUM	(11793-7, LN, "Follicle	(cm, UCUM,	"1", "2"	
A-20-3-3			Diameter")	"centimeter")		

				(mm, UCUM,	
				"millimeter")	
A 20 2	HAS		(404.404. DCM	Common CID	
A-20-3-	CONCEPT	CODE	(121401, DCM,	Common CID-	
3-1	MOD		"Derivation")	Derivation	

### 9.1.1.14 OB-GYN Follicles Section (TID 5013)

Table 9.1-15
Right Follicle Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-21	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
A-21-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-87600, SRT, "Ovarian Follicle")		
A-21-2	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right")		
A-21-3	CONTAINS	CONTAINER	(125007, DCM, "Measurement Group")			
A-21-3-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2"	
A-21-3-2	CONTAINS	NUM	(G-D705, SRT, "Volume")	(ml, UCUM, "milliliter")	Vol.	
A-21-3-3	CONTAINS	NUM	(11793-7, LN, "Follicle Diameter")	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	"1", "2"	
A-21-3- 3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

### 9.1.1.15 OB-GYN Cyst Section (TID SM99003)

**Table 9.1-16** 

### **Cyst Section in OB-GYN SR**

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-22	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
A-22-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(99009 -01, MDSN, "Cyst")		
A-22-2	CONTAINS	CONTAINER	(125007, DCM, "Measurement Group")			
A-22-2-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2"	
A-22-2-2	CONTAINS	NUM	(G-D705, SRT, "Volume")	(ml, UCUM, "milliliter")	Vol.	
A-22-2-3	CONTAINS	NUM	(99005-23, MDSN,"Cyst Diameter")	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	"1", "2"	
A-22-2-3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

## 9.1.1.16 OB-GYN Fibroid Section (TID SM99004)

Table 9.1-17

### Fibroid Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-23	CONTAINS	CONTAINER	(121070, DCM, "Findings")			
A-23-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(99005-21, MDSN, "Fibroids")		
A-23-2	CONTAINS	CONTAINER	(125007, DCM, "Measurement Group")			
A-23-2-1	HAS OBS CONTEXT	TEXT	(12510, DCM, "Identifier")		"1", "2" 	
A-23-2-2	CONTAINS	NUM	(G-D705, SRT, "Volume")	(ml, UCUM,	Vol.	

				"milliliter")		
A-23-2-3	CONTAINS	NUM	(MDSN, 99005-22, "Fibroid Diameter")	(cm, UCUM, "centimeter") (mm, UCUM, "millimeter")	"1", "2"	
A-23-2-3-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

## 9.1.1.17 OB-GYN Fetal Vascular Measurement Group (TID 5025)

## Table 9.1-18

### **OB-GYN Fetal Vascular Measurement Group in OB-GYN SR**

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-24	CONTAINS	CONTAINE R	(121070, DCM, "Findings")			
A-24-1	HAS CONCEPT MOD	CODE	(G-C0E3, SRT, "Finding Site")	(T-F6800, SRT, "Embryonic Vascular Structure")		
A-24-2	CONTAINS	CONTAINE R	Context ID 12141 Extended Fetal Vasculature Anatomical Location			Ref. Table 9.1-30
A-24-2-1	HAS OBS CONTEXT	TEXT	(11951-1, LN, "Fetus ID")		"1", "2" 	
A-24-2-2	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT,  "Right")  (G-A101, SRT,  "Left")  (G-A102, SRT,  "Unilateral")		

A-24-2-3	CONTAINS	NUM	Context ID 12119 Vascular Ultrasound Property		Ref. Table 9.1-32
A-24-2-3-1	HAS CONCEPT MOD	CODE	(G-C036, SRT, "Measurement Method")	(Context ID 90001) Ultrasound Measurement Methods	Ref. Table 9.1-40
A-24-2-3-2	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	

# 9.1.1.18 OB-GYN Pelvic Vascular Measurement Group (TID 5026) Table 9.1-19

### **OB-GYN Pelvic Vascular Measurement Group in OB-GYN SR**

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-25	CONTAINS	CONTAINER	(121070, DCM, "Findings)			
A-25-1	HAS CONCEPT MOD	CODE	(G-C0E3. SRT, Finding Site)	(T-D6007, SRT, "Pelvic Vascular Structure")		
A-25-2	CONTAINS	CONTAINER	Context ID 12140 Extended Pelvic Vasculature Anatomical Location			Ref. Table 9.1-31
A-25-2-1	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right") (G-A101, SRT, "Left") (G-A102, SRT, "Unilateral")	-	
A-25-2-2	HAS CONCEPT	TEXT	(112050, DCM,		"1", "2"	

	MOD		"Anatomic Identifier")		
A-25-2-3	CONTAINS	NUM	Context ID 12119 Vascular Ultrasound Property		Ref. Table 9.1-32
A-25-2-3-1	HAS CONCEPT MOD	CODE	(G-C036, SRT, "Measurement Method")	(Context ID 90001) Ultrasound Measurement Methods	Ref. Table 9.1-40
A-25-2-3-2	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation	

## 9.1.1.19 OB-GYN Mass and Flow Section (TID SM99005)

#### **Table 9.1-20**

### Mass and Flow Section in OB-GYN SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A 00	CONTAINC	CONTAINED	(121070, DCM,			
A-26	CONTAINS	CONTAINER	"Findings")			
	HAS CONCERT		Context ID 99100			
A-26-1	HAS CONCEPT MOD	CODE	Gynecology			Ref. Table 9.1-38
	MOD		Finding Site			
		CODE		(G-A100, SRT,		
				"Right")		
A-26-2	HAS CONCEPT		(G-C171, SRT,	(G-A101, SRT,		
A-20-2	MOD		"Laterality")	"Left")		
				(G-A102, SRT,		
				"Unilateral")		
			Context ID 99103			
A-26-3	CONTAINS	CONTAINER	Gynecology Mass			Ref. Table 9.1-39
			and Flow			
A-26-3-1	HAS OBS	TEXT	(12510, DCM,		"4" "2"	
A-20-3-1	CONTEXT	IEAI	"Identifier")		"1", "2"	

	CONTAINC	NII INA	(11840-6, LN,			
	CONTAINS	NUM	"Length")	(cm, UCUM,		
A-26-3-2	CONTAINS	NUM	(11857-0, LN,	"centimeter")		
A-20-3-2	CONTAINS	NOM	"Height")	(mm, UCUM,		
	CONTAINS	NUM	(11829-9, LN,	"millimeter")		
	CONTAINS	NOM	"Width")			
A-26-3-2-	HAS CONCEPT	CODE	(121401, DCM,	Common CID-		
1	MOD	CODE	"Derivation")	Derivation		
A-26-3-3	CONTAINS	NILIM	(G-D705, SRT,	(ml, UCUM,	Vol.	
A-20-3-3	CONTAINS	NUM	"Volume")	"milliliter")	VOI.	
			Context ID 12119			
A-26-3-4	CONTAINS	NUM	Vascular			Ref. Table 9.1-32
A-20-3-4	CONTAINS	NOW	Ultrasound			Rei. Table 9.1-32
			Property			
A-26-3-4-	HAS CONCEPT	CODE	(121401, DCM,	Common CID-		
1	MOD	CODE	"Derivation")	Derivation		

## 9.1.1.20 OB-GYN User Creation Group Section (TID SM99010)

#### **Table 9.1-21**

### **User Creation Group Section in OB-GYN SR**

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
A-27 A-27-1	CONTAINS  HAS OBS	CONTAINER	(99900-Creation ID, MDSN, "User Creation Group Name") (11951-1, LN, "Fetus		"1", "2"	*Creation ID: Randomly generated 7-digit unique ID Will be present if the creation group has
	CONTEXT		ID")			fetus
	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")		Will be present if the creation group has laterality option

				(G-A102, SRT,	
				"Unilateral")	
			(99900-Creation ID,		
A-27-2	CONTAINS	CONTAINER	MDSN, "User Creation		
			Item Name")		
A 27 2 1	HAS CONCEPT	CODE	(121401, DCM,	Common CID-	
A-27-2-1	MOD	CODE	"Derivation")	Derivation	

### 9.1.2 DCMR Context Groups used in RS85

### 9.1.2.1 Standard Extended Context Groups in OB-GYN SR

**Table 9.1-22** 

#### Context ID 12003 Extended OB-GYN Dates

CSD	cv	СМ	RS85 Label
LN	11778-8	EDD	Estab.DueDate
LN	11779-6	EDD from LMP	EDD(LMP)
LN	11781-2	EDD from average ultrasound age	EDD(AUA)
LN	11955-2	LMP	LMP
LN	11976-8	Ovulation date	Exp.Ovul.

Table 9.1-23
Context ID 12004 Extended Fetal Biometry Ratios Measurements

CSD	CV	СМ	Laterality	RS85 Label
LN	11871-1	FL/AC	N/A	FL/AC
LN	11872-9	FL/BPD	N/A	FL/BPD
LN	11873-7	FL/HC	N/A	FL/HC
LN	11823-2	Cephalic Index	N/A	CI(BPD/OFD)
LN	11947-9	HC/AC	N/A	HC/AC
MDSN	99000-01	FL/FOOT	N/A	FL/FOOT
MDSN	99000-02	ThC/AC	N/A	ThC/AC
		Right Anterior Horn Lateral		
MDSN	99000-04	ventricular to Hemispheric	Right	Rt. Va/Hem
		Width Ratio		

MDSN	99000-05	Leftt Anterior Horn Lateral ventricular to Hemispheric	Left	Lt. Va/Hem
2 5.1		Width Ratio	2011	
		Anterior Horn Lateral		
MDSN	99000-08	ventricular to Hemispheric	N/A	Va/Hem
		Width Ratio		
		Right Posterior Horn		
MDSN	99000-06	Lateral ventricular to	Right	Rt. Vp/Hem
		Hemispheric Width Ratio		
		Left Posterior Horn Lateral		
MDSN	99000-07	ventricular to Hemispheric	Left	Lt. Vp/Hem
		Width Ratio		
		Posterior Horn Lateral		
MDSN	99000-09	ventricular to Hemispheric	N/A	Vp/Hem
		Width Ratio		

Table 9.1-24
Context ID 12005 Extended Fetal Biometry Measurements

CSD	CV	СМ	RS85 Label
LN	11820-8	Biparietal Diameter	BPD
LN	11851-3	Occipital-Frontal Diameter	OFD
LN	11984-2	Head Circumference	HC
LN	11818-2	Anterior-Posterior Abdominal Diameter	APD
LN	11862-0	Tranverse Abdominal Diameter	TAD
LN	11979-2	Abdominal Circumference	AC
LN	11963-6	Femur Length	FL
LN	11819-0	Anterior-Posterior Trunk Diameter	APTD
LN	11864-6	Transverse Thoracic Diameter	TTD
LN	11988-3	Thoracic Circumference	ThC
LN	11965-1	Foot length	Foot
LN	11834-9	Left Kidney length	Lt. Renal L
LN	11825-7	Left Kidney width	Lt. Renal AP
LN	11836-4	Right Kidney length	Rt. Renal L
LN	11827-3	Right Kidney width	Rt. Renal AP

MDSN	99001-18	Kidney length	Renal L
MDSN	99001-19	Kidney width	Renal AP
LN	33068-8	Thoracic Area	ThA
MDSN	99001-01	Middle Abdominal Diameter	MAD
MDSN	99005-13	Right Pelvis	Rt. Pelvis
MDSN	99005-14	Left Pelvis	Lt. Pelvis
MDSN	99005-01	Pelvis	Pelvis
MDSN	99001-02	Fetal Trunk Area	FTA
MDSN	99001-03	APTDxTTD	APTDxTTD
MDSN	99001-04	Ear Length	Ear
MDSN	99001-05	Middle Phalanx	MP
MDSN	99001-06	Thoracic Anteriorposterior Diameter	ThD ap
MDSN	99001-07	Thoracic Transverse Diameter	ThD trans
MDSN	99001-08	Heart Anteriorposterior Diameter	HrtD ap
MDSN	99001-09	Heart Transverse Diameter	HrtD trans
MDSN	99001-11	Cardio-Thoracic Area Ratio by Distance	CTAR(D)
MDSN	99001-12	Heart Area	HrtA
MDSN	99001-13	Cardio-Thoracic Area Ratio by Area	CTAR(A)
MDSN	99001-23	Cardio-Thoracic Area Ratio by Circumference	CTAR(C)

Table 9.1-25
Context ID 12006 Extended Fetal Long Bones Biometry Measurements

CSD	CV	СМ	Laterality	RS85 Label
LN	11966-9	Humerus length	N/A, Right, Left	ним
LN	11969-3	Ulna length	N/A, Right, Left	ULNA
LN	11968-5	Tibia length	N/A, Right, Left	TIB
LN	11967-7	Radius length	N/A, Right, Left	RAD
LN	11964-4	Fibula length	N/A, Right, Left	FIB
LN	11962-8	Clavicle length	N/A, Right, Left	CLAV
MDSN	99002-01	Vertebral	N/A	Vertebral

Table 9.1-26
Context ID 12007 Extended Fetal Cranium

CSD	CV	СМ	Laterality	RS85 Label
LN	11863-8	Trans Cerebellar Diameter	N/A	CEREB
LN	11860-4	Cisterna Magna length	N/A	СМ
LN	12146-7	Nuchal Fold thickness	N/A	NF
LN	33069-6	Nuchal Translucency	N/A	NT
LN	11629-3	Outer Orbital Diameter	N/A	OOD
LN	33070-4	Inner Orbital Diameter	N/A	IOD
LN	33197-5	Anterior Horn Lateral ventricular width	N/A, Right, Left	Va
LN	33196-7	Posterior Horn Lateral ventricular width	N/A, Right, Left	Vp
LN	12170-7	Width of Hemisphere	N/A, Right, Left	НЕМ
SRT	T-11149	Nasal bone	N/A	NB
MDSN	99004-02	Frontomaxillary facial angle	N/A	FMF angle

Table 9.1-27
Context ID 12008 Extended OB-GYN Amniotic Sac

CSD	CV	СМ	RS85 Label
LN	11624-4	First Quadrant Diameter	Q1
LN	11626-9	Second Quadrant Diameter	Q2
LN	11625-1	Third Quadrant Diameter	Q3
LN	11623-6	Fourth Quadrant Diameter	Q4
LN	11627-7	Amniotic Fluid Index	AFI
SRT	M-02550	Diameter	Max Vertical Pocket
MDSN	99004-01	MVP	MVP

Table 9.1-28

Context ID 12009 Extended Early Gestation Biometry Measurements

CSD	CV	СМ	RS85 Label
LN	11850-5	Gestational Sac Diameter	GS
LN	11957-8	Crown Rump Length	CRL
LN	11816-6	Yolk Sac length	YS
LN	33071-2	Spine Length	SL

**Table 9.1-29** 

**Context ID 12011 Extended Ultrasound Pelvis and Uterus** 

CSD	CV	СМ	RS85 Label
LN	11961-0	Cervix Length	
LN	12145-9	Endometrium Thickness	
MDSN	99005-02	Cervix Height	Cervix H
MDSN	99005-03	Cervix Width	Cervix W
MDSN	99005-04	Cervix Volume	Cervix Vol.

Table 9.1-30
Context ID 12141 Extended Fetal Vasculature Anatomical Location

CSD	CV	СМ	RS85 Label
SRT	T-42000	Aorta	Fetal Aorta
SRT	T-D0765	Descending Aorta	Dsc Aorta (in Fetal Heart)
SRT	T-45600	Middle Cerebral Artery	Mid Cereb A
SRT	T-44000	Pulmonary Artery	MPA (in Fetal Heart)
SNM3	T 45040	Carotid artery	Lt. Fetal Carotid
SINIVIS	T-45010		Rt. Fetal Carotid
MDSN	99008-02	Ductus Venosus	Ductus Venosus
MDSN	99008-03	B 14.	Lt. Renal A
INIDON	99006-03	Renal Artery	Rt. Renal A
SRT	T-48710	Inferior vena cava	IVC (in Fetal Heart)
MDSN	99008-07	Ductus Atriosus	Duct A
MDSN	99008-09	Ascending Aorta	Asc Aorta

Table 9.1-31
Context ID 12140 Extended Pelvic Vasculature Anatomical Location

CSD	CV	СМ	RS85 Label
SRT	T-F1810	Umbilical Artery	Umbilical A
SRT	T-46980	Overion Artery	Lt. Ovarian A
	1-40900	Ovarian Artery	Rt. Ovarian A
SRT	T 46920	Litarina Artany	Lt. Uterine A (in OB or Gynecology)
	T-46820	Uterine Artery	Rt. Uterine A (in OB or Gynecology)
SRT	T-F1412	Vitelline Artery of Placenta	Placenta A
MDSN	99007-01	Perisystic Flow	Perisystic Flow
MDSN	99007-02	Endometrial Flow	Endometrial Flow

Table 9.1-32
Context ID 12119 Vascular Ultrasound Property

CSD	CV	СМ	RS85 Label
INCLUDE	NCLUDE CID 12120 Extended Blood Velocity Measurements		
INCLUDE	CID 12121 Vascular Indices and Ratios		
INCLUDE	CID 12122 Other Vascular Properties		

Table 9.1-33
Context ID 12120 Extended Blood Velocity Measurement

CSD	CV	СМ	RS85 Label
LN	11653-3	End Diastolic Velocity	EDV
LN	11726-7	Peak Systolic Velocity	PSV
LN	20352-1	Time averaged mean velocity	TAMV
LN	11692-1	Time averaged peak velocity	TAPV
MDSN	99008-04	Systolic Peak Velocity	Duct. V S Vmax
MDSN	99008-05	Diastolic Peak Velocity	Duct. V D Vmax
MDSN	99008-06	Atrial Peak Velocity	Duct. V A Vmax

Table 9.1-34
Context ID 12121 Vascular Indices and Ratios

CSD	CV	СМ	RS85 Label
LN	20167-3	Acceleration Index	Acc
SRT	R-101BA	Lumen Area Stenosis	%StA
SRT	R-101BB	Lumen Diameter Stenosis	%StD
LN	12008-9	Pulsatility Index	PI
LN	12023-8	Resistivity Index	RI
LN	12144-2	Systolic to Diastolic Velocity Ratio	S/D

Table 9.1-35
Context ID 12122 Other Vascular Properties

CSD	CV	СМ	RS85 Label
LN	20168-1	Acceleration Time	AccT
LN	20217-6	Deceleration Time	DecT

SRT	G-0364	Vessel lumen diameter	Dout
SRT	R-1025C	Vessel Intimal Diameter	Din
SRT	R-1025D	Vessel Intimal Cross-Sectional Area	Ain
SRT	G-0365	Vessel outside diameter	Vesl. Dist.
SRT	G-0366	Vessel lumen cross-sectional area	Aout
LN	33878-0	Volume flow	Vol. Flow
LN	20247-3	Peak Gradient	PGmax
LN	20256-4	Mean Gradient	PGmean

Table 9.1-36
Context ID 7304 Implant Target Anatomy

CSD	CV	СМ	RS85 Label
SRT	T-12410	Humerus	ним
SRT	T-12420	Radius	RAD
SRT	T-12430	Ulna	ULNA
SRT	T-12440	Tibia	TIB
SRT	T-12450	Fibula	FIB
SRT	T-12310	Clavicle	CLAV

Table 9.1-37
Context ID 12022 Fetal Cranium Anatomic Sites

CSD	CV	СМ	RS85 Label
SRT	T-A1700	Anterior Horn Lateral Ventricle	Va
SRT	T-A1710	Posterior Horn Lateral Ventricle	Vp
SRT	T-A010F	Cerebral hemisphere	Hem

Table 9.1-38
Context ID 99100 Gynecology Finding Site

CSD	CV	СМ	RS85 Label
SRT	M-03000	Mass	Mass
MDSN	99009-04	Endometrial Polyp	Endo. Polyp
MDSN	99009-05	Ovarian Mass	Ovarian Mass
MDSN	99009-08	Ectopic Pregnancy	Ectopic Pregnancy
MDSN	99009-09	Uterine Fibroid	Uterine Fibroid

MDSN	99009-10	Cervix	Cervix Flow
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Table 9.1-39
Context ID 99103 Gynecology Mass and Flow

CSD	CV	СМ	RS85 Label
SRT	M-03000	Mass	Mass
MDSN	99007-03	Endometrial Polyp Flow	Endo. Polyp
MDSN	99007-04	Ovarian Mass Flow	Ovarian Mass
MDSN	99007-07	Ectopic Flow	Ectopic Flow
MDSN	99007-08	Uterine Fibroid Flow	Uterine Fibroid
MDSN	99007-09	Cervical Flow	Cervix Flow

Table 9.1-40
Context ID 90001 Ultrasound Measurement Methods

CSD	CV	СМ	RS85 Label
MDSN	99300-00	Auto Trace	
MDSN	99300-01	Limited Trace	(L)
MDSN	99300-02	Manual Trace	(M)
MDSN	99300-03	Auto Trace, Area Based Method	(A)
MDSN	99300-06	Auto Trace, Diameter Based Method	(D)
MDSN	99300-04	Limited Trace, Area Based Method	(A)(L)
MDSN	99300-07	Limited Trace, Diameter Based Method	(D)(L)
MDSN	99300-05	Manual Trace, Area Based Method	(A)(M)
MDSN	99300-08	Manual Trace, Diameter Based Method	(D)(M)

# 9.1.2.2 Gestational Age Equations and Tables (Context Group 12013) Table 9.1-41

## **Gestational Age Equations and Tables**

Coding Scheme Designator	Code Value	Code Meaning
LN	11889-3	AC, Campbell 1975
LN	11892-7	AC, Hadlock 1984
LN	33076-1	AC, Shinozuka 1996

LN	11902-4	BPD, Hadlock 1984
LN	33538-0	BPD, Hansmann 1986
LN	11905-7	BPD, Jeanty 1984
LN	11906-5	BPD, Kurtz 1980
LN	33082-9	BPD, Osaka 1989
LN	11907-3	BPD, Sabbagha 1978
LN	33084-5	BPD, Shinozuka 1996
LN	33086-0	BPD-oi, Chitty 1997
LN	33087-8	BPD-oo, Chitty 1997
LN	33088-6	Clavical length, Yarkoni 1985
LN	11910-7	CRL, Hadlock 1992
LN	33540-6	CRL, Hansmann 1986
LN	11913-1	CRL, Nelson 1981
LN	33093-6	CRL, Osaka 1989
LN	33094-4	CRL, Rempen 1991
LN	11914-9	CRL, Robinson 1975
LN	33095-1	CRL, Shinozuka 1996
LN	33098-5	FL, Chitty 1997
LN	11920-6	FL, Hadlock 1984
LN	33541-4	FL, Hansmann 1986
LN	11922-2	FL, Hohler 1982
LN	11923-0	FL, Jeanty 1984
LN	33101-7	FL, Osaka 1989
LN	33102-5	FL, Shinozuka 1996
LN	11928-9	GS, Hellman 1969
LN	33107-4	GS, Nyberg 1992
LN	33108-2	GS, Tokyo 1986
LN	33110-8	HC measured, Chitty 1997
LN	33111-6	HC derived, Chitty 1997
LN	11932-1	HC, Hadlock 1984
LN	33543-0	HC, Hansmann 1986
LN	11936-2	Humerus, Jeanty 1984
LN	33117-3	Humerus Length, Osaka 1989
LN	33120-7	OFD, Hansmann 1986
LN	11941-2	Tibia, Jeanty 1984

LN	11944-6	Ulna, Jeanty 1984
LN	11929-7	GS, Rempen 1991
LN	33083-7	BPD, Rempen 1991

## 9.1.2.3 OB Fetal Body Weight Equations and Tables (Context ID 12014) Table 9.1-42

### **OB Fetal Body Weight Equations and Tables**

Coding Scheme Designator	Code Value	Code Meaning
LN	11756-4	EFW by AC, Campbell 1975
LN	11738-2	EFW by AC, BPD, Hadlock 1984
LN	11735-8	EFW by AC, BPD, FL, Hadlock 1985
LN	11732-5	EFW by AC, BPD, FL, HC, Hadlock 1985
LN	11751-5	EFW by AC, FL, Hadlock 1985
LN	11746-5	EFW by AC, FL, HC, Hadlock 1985
LN	33139-7	EFW by BPD, TTD, Hansmann 1986
LN	11739-0	EFW by AC and BPD, Shepard 1982
LN	33140-5	EFW by BPD, FTA, FL, Osaka 1990

# 9.1.2.4 Fetal Growth Equations and Tables (Context ID 12015) Table 9.1-43

### **Fetal Growth Equations and Tables**

Coding Scheme Designator	Code Value	Code Meaning
LN	33145-4	AC by GA, ASUM 2000
LN	33146-2	AC by GA, Hadlock 1984
LN	33147-0	AC (measured) by GA, Chitty 1994
LN	33546-3	AC (derived) by GA, Chitty 1994
LN	33149-6	AC by GA, Shinozuka 1996
LN	33151-2	BPD by GA, ASUM 2000
LN	33198-3	BPD by GA, Hadlock 1984
LN	33556-2	BPD outer-inner by GA, Chitty 1994
LN	33152-0	BPD outer-outer by GA, Chitty 1994

LN	33156-1	BPD by GA, Shinozuka 1996
LN	33161-1	CRL by GA, Shinozuka 1996
LN	33164-5	Fibula by GA, Jeanty 1983
LN	33165-2	FL by GA, ASUM 2000
LN	33166-0	FL by GA, Hadlock 1984
LN	33167-8	FL by GA, Chitty 1994
LN	33170-2	FL by GA, Shinozuka 1996
LN	33172-8	HC by GA, ASUM 2000
LN	33173-6	HC by GA, Hadlock 1984
LN	33174-4	HC derived by GA, Chitty 1994
LN	33177-7	Humerus Length by GA, ASUM 2000
LN	33178-5	OFD by GA, ASUM 2000
LN	33180-1	Radius by GA, Jeanty 1983
LN	33181-9	TCD by GA Goldstein 1987
LN	33155-3	BPD by GA, Rempen 1991
LN	33171-0	GS by GA, Rempen 1991

# 9.1.2.5 Estimated Fetal Weight Percentile Equations and Tables (Context ID 12016) Table 9.1-44

### **Estimated Fetal Weight Percentile Equations and Tables**

Coding Scheme Designator	Code Value	Code Meaning
LN	33183-5	FWP by GA, Hadlock 1991
LN	33184-3	FWP by GA, Williams, 1982
LN	33189-2	FWP by GA, Brenner 1976

### 9.2 VASCULAR STRUCTURED REPORT TEMPLATE

## 9.2.1 Vascular Ultrasound Report Templates (TID 5100)

Table 9.2-1
Vascular Ultrasound Procedure Report Template

No	Rel With Parent	VT	Concept Name	Comments	RS85 Label
1		CONTAINER	(125100, DCM, "Vascular		
'		CONTAINER	Ultrasound Procedure Report")		
2	HAS OBS	INCLUDE	DTID (1001) Observation Context		
_	CONTEXT	IIIOZODZ	DTID (1001) ODDOTVATION CONTOX		
3	CONTAINS	INCLUDE	DTID (5101) Vascular Patient		
	0011111110	IIIOZODZ	Characteristics		
4	CONTAINS	INCLUDE	DTID (5102) Vascular Procedure		
	0011111110	IIIOZODZ	Summary Section		
				\$SectionScope = DT (T-40501,	
				SRT, "Blood Vessel of Head")	
			DTID (5103) Vascular Ultrasound Section	\$SectionLaterality = EV (G-A103,	TCD - (Unilateral)
5	CONTAINS	NS INCLUDE		SRT, "Unilateral")	
				\$Anatomy = DCID (12106)	
				Intracranial Cerebral Vessels	
				(unilateral)	
			LUDE DTID (5103) Vascular Ultrasound Section	\$SectionScope = DT (T-40501,	Rt. TCD
		CONTAINS INCLUDE		SRT, "Blood Vessel of Head")	
6	CONTAINS			\$SectionLaterality = EV (G-A100,	
"	CONTAINS	INCLUDE		SRT, "Right")	
				\$Anatomy = DCID (12105)	
				Intracranial Cerebral Vessels	
				\$SectionScope = DT (T-40501,	
	7 CONTAINS		CLUDE DTID (5103) Vascular Ultrasound Section	SRT, "Blood Vessel of Head")	Lt. TCD
7				\$SectionLaterality = EV (G-A101,	
'		INCLUDE		SRT, "Left")	
				\$Anatomy = DCID (12105)	
				Intracranial Cerebral Vessels	
8	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound	\$SectionScope = DT (T-40501,	TCD

			Section	SRT, "Blood Vessel of Head")	
				\$Anatomy = DCID (12105)	
				Intracranial Cerebral Vessels	
				\$SectionScope = DT (T-45005,	
				SRT, "Artery of neck")	
				\$SectionLaterality = EV (G-A100,	1
	CONTAINIO	INOLLIDE	DTID (5103) Vascular Ultrasound	SRT, "Right")	B. O
9	CONTAINS	INCLUDE	Section	\$Anatomy = DCID (12104)	Rt. Carotid
				Extracranial Arteries	
				\$AnatomyRatio = DCID (12123)	]
				Carotid Ratios	
				\$SectionScope = DT (T-45005,	
				SRT, "Artery of neck")	
		INS INCLUDE DTID (5103) Vascu		\$SectionLaterality = EV (G-A101,	
	CONTAINIO		DTID (5103) Vascular Ultrasound Section	SRT, "Left")	
9	CONTAINS			\$Anatomy = DCID (12104)	Lt. Carotid
				Extracranial Arteries	
				\$AnatomyRatio = DCID (12123)	
				Carotid Ratios	
				\$SectionScope = DT (T-47040,	
		S INCLUDE		SRT, "Artery of Lower Extremity")	
10	CONTAINS		DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A100,	Dt I F Artony
10	CONTAINS		Section	SRT, "Right")	Rt. LE Artery
				\$Anatomy = DCID (12109) Lower	
				Extremity Arteries	
				\$SectionScope = DT (T-47040,	
				SRT, "Artery of Lower Extremity")	
11	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	Lt. LE Artery
''	CONTAINS	INCLUDE	Section	SRT, "Left")	Lt. LL Artery
				\$Anatomy = DCID (12109) Lower	
				Extremity Arteries	
				\$SectionScope = DT (T-49403,	
			DTID (5103) Vascular Ultrasound	SRT, "Vein of Lower Extremity")	Rt. LE Vein
12	CONTAINS	INCLUDE	Section	\$SectionLaterality = EV (G-A100,	
			Coulon	SRT, "Right")	
				\$Anatomy = DCID (12110) Lower	

13   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   Section   Sect					Extremity Veins	
13   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound Section   SRT, "Vein of Lower Extremity"   SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12110) Lower Extremity Veins   SectionScope = DT (T-47020, SRT, "Atery Of Upper Extremity")   SectionScope = DT (T-47020, SRT, "Right")   SAnatomy = DCID (12107) Upper Extremity ("SAnatomy = DCID (12107) Upper Extremity ("SAnatomy = DCID (12107) Upper Extremity ("SRT, "Right")   SectionLaterality = EV (G-A100, SRT, "Right")   SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12107) Upper Extremity ("SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12107) Upper Extremity ("SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12107) Upper Extremity ("SectionLaterality = EV (G-A100, SRT, "Right")   SectionLaterality = EV (G-A100, SRT, "Right")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionScope = DT (					\$SectionScope = DT (T-49403,	
13   CONTAINS   INCLUDE   Section   SRT, "Left")   \$Anatomy = DCID (12110) Lower Extremity Veins   \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   \$SectionLaterality = EV (G-A100, SRT, "Right")   \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   \$SectionLaterality = EV (G-A100, SRT, "Right")   \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity Arteries   \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   \$SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12107) Upper Extremity Arteries   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionLaterality = EV (G-A100, SRT, "Right")   \$SectionLaterality = EV (G-A100, SRT, "Right")   \$SectionLaterality = EV (G-A100, SRT, "Right")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionScope = DT						
Section   SRT, "Left"   Sanatomy = DCID (12110) Lower   Extremity Veins   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   SectionLaterality = EV (G-A100, SRT, "Right")   Sanatomy = DCID (12107) Upper   Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity Arteries   SectionScope = DT (T-47020, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A100, SRT, "Right")   SectionLaterality = EV (G-A100, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-				DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	1
Extremity Veins   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   Section   Section   Section   SRT, "Right"   Section   Section   SRT, "Right"   Section   SRT, "Artery Of Upper Extremity"   Section   SRT, "Right"   Section   SRT, "Right"   Section   SRT, "Right"   Section   SRT, "Artery Of Upper Extremity   Section   SRT, "Artery Of Upper Extremity   Section   SRT, "Artery Of Upper Extremity"   Section   SRT, "Artery Of Upper Extremity"   Section   SRT, "Artery Of Upper Extremity"   SRT, "Artery Of Upper Extremity"   SRT, "Artery Of Upper Extremity   Section   SRT, "Left"   SAnatomy = DCID (12107) Upper   Extremity Arteries   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   Section   SRT, "Right"   Section   SRT, "Right"   Section   SRT, "Right"   Section   SRT, "Right"   Section   SRT, "Vein Of Upper Extremity   Section   SRT, "Vein Of Upper Extremity   Section   SRT, "Vein Of Upper Extremity"   SRT, "Vein Of Upper Extremity   SR	13	CONTAINS	INCLUDE	Section	SRT, "Left")	Lt. LE Vein
Section   Sect					\$Anatomy = DCID (12110) Lower	
SRT, "Artery Of Upper Extremity"   SectionLaterality = EV (G-A100, SRT, "Right")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A100, SRT, "Right")   SectionLaterality = EV (G-A100, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Left")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vein Of Upper Extremity Veins   SectionScope = DT (					Extremity Veins	
14   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound Section   SRT, "Right")   Shanatomy = DCID (12107) Upper Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   Shanatomy = DCID (12107) Upper Extremity")   Shanatomy = DCID (12107) Upper Extremity")   Shanatomy = DCID (12107) Upper Extremity Arteries   SectionLaterality = EV (G-A101, SRT, "Left")   Shanatomy = DCID (12107) Upper Extremity Arteries   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   Shanatomy = DCID (12107) Upper Extremity Arteries   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   Shanatomy = DCID (12108) Upper Extremity Veins   Shanatomy = DCID (12108) Upper Extremity = Upper Extremity Veins   Shanatomy = Upper Extremity = Upper E					\$SectionScope = DT (T-47020,	
14   CONTAINS   INCLUDE   Section   SRT, "Right")   \$Anatomy = DCID (12107) Upper   Extremity Arteries   SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12107) Upper   Extremity Arteries   SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12107) Upper   Extremity Arteries   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$Anatomy = DCID (12107) Upper   Extremity Arteries   SectionLaterality = EV (G-A100, SRT, "Right")   \$Anatomy = DCID (12108) Upper   Extremity Veins   Section   SRT, "Vein Of Upper Extremity")   \$Anatomy = DCID (12108) Upper   Extremity Veins   SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12108) Upper   Extremity Veins   SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12108) Upper   Extremity Veins   SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12108) Upper   Extremity Veins   SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")   \$Rt. Abdomen   Renal   Rt. Abdomen   Rt. Ab					SRT, "Artery Of Upper Extremity")	
Section   SRT, "Right")   SAnatomy = DCID (12107) Upper   Extremity Arteries				DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A100,	- 
Extremity Arteries	14	CONTAINS	INCLUDE	Section	SRT, "Right")	Rt. UE Artery
SectionScope = DT (T-47020, SRT, "Artery Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Left")   Section   Sec					\$Anatomy = DCID (12107) Upper	
15   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   Section   SRT, "Artery Of Upper Extremity"   SectionLaterality = EV (G-A101, SRT, "Left")					Extremity Arteries	
15   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   Section   SRT, "Left")   SAnatomy = DCID (12107) Upper   Extremity Arteries					\$SectionScope = DT (T-47020,	
15   CONTAINS   INCLUDE   Section   SRT, "Left")   \$Anatomy = DCID (12107) Upper Extremity Arteries   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionLaterality = EV (G-A100, SRT, "Right")   SAnatomy = DCID (12108) Upper Extremity Veins   SectionScope = DT (T-49103, SRT, "Right")   SAnatomy = DCID (12108) Upper Extremity Veins   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SRT, "Vein Of Upper Extremity")   SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12108) Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")   SRT, "Vascular Structure Of Kidney")   SRT, "Vascular Structure Of Kidney")   SectionLaterality = EV (G-A100, Renal Section Renal			S INCLUDE		SRT, "Artery Of Upper Extremity")	
Section   SRT, "Left")   Sanatomy = DCID (12107) Upper   Extremity Arteries	45	CONTAINS			\$SectionLaterality = EV (G-A101,	Lt. UE Artery
Extremity Arteries	15				SRT, "Left")	
16   CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   Section   Sect					\$Anatomy = DCID (12107) Upper	
CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   Section   SRT, "Vein Of Upper Extremity"   SectionLaterality = EV (G-A100, SRT, "Right")   SAnatomy = DCID (12108) Upper Extremity Veins   SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Vein Of Upper Extremity")   SectionLaterality = EV (G-A101, SRT, "Left")   SAnatomy = DCID (12108) Upper Extremity Veins   SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")   SectionLaterality = EV (G-A100, SRT, "Vascular Structure Of Kidney")   SectionLaterality = EV (G-A100, SRT, "Vascular Structure Of Kidney")   SectionLaterality = EV (G-A100, SRT)   SectionLateral					Extremity Arteries	
TONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section Script (G-A100, SRT, "Right")  17 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section Scope = DT (T-49103, SRT, "Vein Of Upper Extremity")  18 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section Scope = DT (T-71019, SRT, "Vascular Script Veins  18 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section Scope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  18 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section Scope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  18 SectionLaterality = EV (G-A100, Rt. Abdomen Renal					\$SectionScope = DT (T-49103,	
16   CONTAINS   INCLUDE   Section   SRT, "Right")   \$Anatomy = DCID (12108) Upper   Extremity Veins   \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12108) Upper   Extremity Veins   Lt. UE Vein   Lt. UE Vein   \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   \$SectionLaterality = EV (G-A100, Rt. Abdomen Renal   Rt. Abdomen   Renal   Rt. Abdomen   Renal   Rt. Abdomen   Renal   Rt. Abdomen   Renal   Rt. Abdomen   Renal   Rt. Abdomen			S INCLUDE		SRT, "Vein Of Upper Extremity")	
Section   SRT, "Right")   SAnatomy = DCID (12108) Upper   Extremity Veins	40	CONTAINIC		DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A100,	Dt UE Vais
Extremity Veins  SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")  Section	16	CONTAINS		Section	SRT, "Right")	Rt. UE Vein
\$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")  \$SectionLaterality = EV (G-A101, SRT, "Left")  \$Anatomy = DCID (12108) Upper Extremity Veins  \$SectionScope = DT (T-49103, SRT, "Vein Of Upper Extremity")  \$Anatomy = DCID (12108) Upper Extremity Veins  \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  \$SRT, "Vascular Structure Of Kidney")					\$Anatomy = DCID (12108) Upper	
CONTAINS   INCLUDE   DTID (5103) Vascular Ultrasound   SRT, "Vein Of Upper Extremity")   \$SectionLaterality = EV (G-A101, SRT, "Left")   \$Anatomy = DCID (12108) Upper Extremity Veins   SRT, "Vascular Structure Of Kidney")   SRT, "Vascular Structure Of Kidney")   Rt. Abdomen Renal   R					Extremity Veins	
TONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section SRT, "Left")  **SectionLaterality = EV (G-A101, SRT, "Left")  **Sanatomy = DCID (12108) Upper Extremity Veins  **SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  **SectionLaterality = EV (G-A100, Rt. Abdomen Renal					\$SectionScope = DT (T-49103,	
Section  SRT, "Left")  \$Anatomy = DCID (12108) Upper Extremity Veins  \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  \$SectionLaterality = EV (G-A100,					SRT, "Vein Of Upper Extremity")	
Section  SRT, "Left")  \$Anatomy = DCID (12108) Upper Extremity Veins  \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  Rt. Abdomen Renal	17	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	I + IJE Vois
Extremity Veins  \$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  Rt. Abdomen Renal	''	CONTAINS	INCLUDE	Section	SRT, "Left")	Lt. OE vein
\$SectionScope = DT (T-71019, SRT, "Vascular Structure Of Kidney")  Rt. Abdomen Renal					\$Anatomy = DCID (12108) Upper	
18 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Section SRT, "Vascular Structure Of Kidney")  SectionLaterality = EV (G-A100, Rt. Abdomen Renal					Extremity Veins	
18 CONTAINS INCLUDE DTID (5103) Vascular Ultrasound Kidney") Section Section Renal					\$SectionScope = DT (T-71019,	
18 CONTAINS INCLUDE Section Kidney")  Section Exercise EV (G-A100,				DTID (5103) Vascular Hitrasound	SRT, "Vascular Structure Of	
\$SectionLaterality = EV (G-A100,	18	CONTAINS	INCLUDE		Kidney")	
SRT, "Right")				Georgia	\$SectionLaterality = EV (G-A100,	
					SRT, "Right")	

				\$Anatomy = DCID (12115) Renal	
				Vessels	
				\$AnatomyRatio = DCID (12124)	
				Renal Ratios	
				\$SectionScope = DT (T-71019,	
				SRT, "Vascular Structure Of	
				Kidney")	
			DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	Lt. Abdomen
19	CONTAINS	INCLUDE	Section	SRT, "Left")	- Renal
			Section	\$Anatomy = DCID (12115) Renal	Renai
				Vessels	
				\$AnatomyRatio = DCID (12124)	
				Renal Ratios	
				\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A103,	Abdomen
20	CONTAINS	INCLUDE	Section	SRT, "Unilateral")	Artery
				\$Anatomy = DCID (12112)	(Unilateral)
				Abdominal Arteries (unilateral)	
				\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A100,	Rt. Abdomen
21	CONTAINS	INCLUDE	Section	SRT, "Right")	Artery
				\$Anatomy = DCID (12111)	
				Abdominal Arteries (lateral)	
				\$SectionScope = DT (T-46002,	
				SRT, "Artery of Abdomen")	
			DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	Lt. Abdomen
22	CONTAINS	INCLUDE	Section	SRT, "Left")	Artery
				\$Anatomy = DCID (12111)	1
				Abdominal Arteries (lateral)	
				\$SectionScope = DT (T-46002,	
			DTID (5103) Vascular Ultrasound	SRT, "Artery of Abdomen")	Abdomen
23	CONTAINS	INCLUDE	LUDE Section	\$Anatomy = DCID (12111)	Artery
				Abdominal Arteries (lateral)	
24	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound	\$SectionScope = DT (T-487A0,	Abdomen
I	I	<b>-</b>	1		

			Section	SRT, "Vein of Abdomen")	Vein
				\$SectionLaterality = EV (G-A103,	(Unilateral)
				SRT, "Unilateral")	
				\$Anatomy = DCID (12114)	
				Abdominal Veins (unilateral)	
				\$SectionScope = DT (T-487A0,	
				SRT, "Vein of Abdomen")	
0.5	0011741140	11.01.115.5	DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A100,	Rt. Abdomen
25	CONTAINS	INCLUDE	Section	SRT, "Right")	Vein
				\$Anatomy = DCID (12113)	
				Abdominal Veins (lateral)	
				\$SectionScope = DT (T-487A0,	
				SRT, "Vein of Abdomen")	
	CONTAINIC	INIOLUDE	DTID (5103) Vascular Ultrasound	\$SectionLaterality = EV (G-A101,	Lt. Abdomen
26	CONTAINS	INCLUDE	Section	SRT, "Left")	Vein
				\$Anatomy = DCID (12113)	
				Abdominal Veins (lateral)	
				\$SectionScope = DT (T-487A0,	
0.7	CONTAINIC	INIOLUDE	DTID (5103) Vascular Ultrasound	SRT, "Vein of Abdomen")	Abdomen
27	CONTAINS	INCLUDE	Section	\$Anatomy = DCID (12113)	Vein
				Abdominal Veins (lateral)	
				\$SectionScope = DT (T-D4000,	
			DTID (5400) Vecesiles I librare and	SRT,	A b da sa a s
28	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	"Abdomen")	Abdomen (B. MODE)
			Section	\$Anatomy = DCID (6204) Anatomic	(B- MODE)
				Non-Colon Findings	

## 9.2.1.1 Observation Context (TID 1001)

Table 9.2-2
Observation Context in Vascular SR

Ī		REL	VT	Concept Name	Unit / CODE Value	RS85 Label
	B-1	HAS OBS	0005	(121005, DCM, "Observer	(404000 POM "P")	
	D-1	CONTEXT	CODE	Type")	(121006, DCM, "Person")	
	D O	HAS OBS	DNIAME	(121008, DCM, "Person		Ref.
	B-2	CONTEXT	PNAME	Observer Name")		Physician

B-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025, DCM, "Patient")	
B-4	HAS OBS CONTEXT	PNAME	(121029, DCM, "Subject Name")		Last Name,First Name
B-5	HAS OBS CONTEXT	DATE	(121031, DCM, "Subject Birth Date")		BirthDate
B-6	HAS OBS CONTEXT	CODE	(121032, DCM, "Subject Sex")	(M, DCM, "Male")  (F, DCM, "Female")  (U, DCM, "Unknown sex")	Gender
B-7	HAS OBS CONTEXT	NUM	(121033, DCM, "Subject Age")	(mo, UCUM, "month")	Not Used

### 9.2.1.2 Vascular Patient Characteristics (TID 5101)

## Table 9.2-3 Patient Characteristics in Vascular SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
B-8	CONTAINS	CONTAINED	(121118, DCM, "Patient		
D-0	CONTAINS	CONTAINER	Characteristics")		
B-8-1	CONTAINS	NUM	(121033, DCM, "Subject Age")	Units = DCID (7456)	Description
D-0-1			(121033, DOM, Subject Age )	Units of Measure for Age	
B-8-2	CONTAINS	CODE	(121032, DCM, "Subject Sex")	DCID (7455) Sex	Hoight
D-0-2	CONTAINS	NUM	(8867-4, LN, "Heart Rate")		Height
B-8-3	CONTAINS	NILINA	(F-008EC, SRT, "Systolic Blood		Woight
D-0-3	CONTAINS	NUM	Pressure")		Weight
B-8-4	CONTAINS	NILIM	(F-008ED, SRT, "Diastolic Blood		Gravida
D-0-4	CONTAINS	NUM	Pressure")		Gravida

### 9.2.1.3 Vascular Procedure Summary Section (TID 5102)

### **Table 9.2-4**

### **Vascular Summary Section**

Concept Name Unit / CODE Value RS85	VT	REL	
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				Label
B-9	CONTAINS	CONTAINER	DT (121111, DCM, "Summary")	
B-9-1	CONTAINS	TEXT	DCID (12101) Vascular Summary	

## 9.2.1.4 Vascular Ultrasound Section (TID 5103)

Table 9.2-5
Vascular Ultrasound Section

			Scalar Oltrasound Section		RS85
	REL	VT	Concept Name	Unit / CODE Value	Label
B-10		CONTAINER	DT (121070, DCM, "Findings")		
B-10-1	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	\$SectionScope	
B-10-2	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	\$SectionLaterality	
	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	\$AnatomyGroup = \$Anatomy	
B-10-3	CONTAINS	CONTAINER	\$AnatomyGroup		
B-10-3-1	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT,  "Topographical Modifier")	DCID (12116) Vessel Segment Modifiers	
B-10-3-2	HAS CONCEPT MOD	CODE	EV (125101, DCM, "Vessel Branch")	DCID (12117) Vessel Branch Modifiers	
	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = DCID (12119) Vascular Ultrasound Property  \$Derivation = DCID (3627) Measurement Type  \$Method = DCID(90001) Ultrasound Measurement Methods	
B-10-3-3		NUM	\$Measurement	Units = \$Units	
B-10-3-3-1	HAS CONCEPT MOD	CODE	EV (G-C036, SRT,  "Measurement Method")	\$Method	
B-10-3-3-2	HAS CONCEPT MOD	CODE	EV (121401, DCM, "Derivation")	\$Derivation	
	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement =	

				\$AnatomyRatio
B-10-3-4		NUM	\$Measurement	Units = \$Units
	CONTAINS	INCLUDE	DTID (SM99110) Vascular User	
	CONTAINS	INCLUDE	Creation Group Section	
			EV (99900-Creation ID, MDSN,	*Creation ID:
B-10-4	CONTAINS	CONTAINER	"User Creation Group Name")	Randomly generated 7-digit
			Oser Creation Gloup Name )	unique ID
B-10-4-1	HAS CONCEPT	CODE	EV (G-A1F8, SRT,	DCID (12116) Vessel
B-10-4-1	MOD		"Topographical Modifier")	Segment Modifiers
B-10-4-2	CONTAINS	NUM	EV (99900-Creation ID, MDSN,	
D-10-4-2	CONTAINS	NOW	"User Creation Item Name")	
B-10-4-2-1	HAS CONCEPT	CODE	EV (121401 DCM "Derivetion")	¢Dorivetion
D-1U-4-2-1	MOD	CODE	EV (121401, DCM, "Derivation")	\$Derivation

### 9.2.2 Vascular Measurement and Calculation used in Vascular SR

Table 9.2-6 Carotid

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
			(G-A118, SRT,
			"Proximal")
	(T. 40400, OPT "O. I. I	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Subclavian A	(T-46100, SRT, "Subclavian Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity)		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
C/D	(12144-2, LN, "Systolic to Diastolic Velocity		
S/D	Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity		

	Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
0/0/4 0 1 4	(G-0366, SRT, "Vessel lumen cross-sectional		
%StA Outer Area	area")		
0/ 044 Inner Area	(R-1025D , SRT, "Vessel Intimal Cross-Sectional		
%StA Inner Area	Area")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C, SRT, "Vessel Intimal Diameter")		
%StD	(R-101BB , SRT, "Lumen Diameter Stenosis")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vol. Flow(A)	(33878-0, LN, "Volume flow")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow(D)	(33878-0, LN, "Volume flow")		
	(T-45100, SRT, "Common Carotid Artery")		(G-A118, SRT, "Proximal")
CCA		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
33/1		(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity		
3/D	Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity		
270	Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional		

	area")		
0/ 0/ 0   0   0   0   0   0   0   0   0	(R-1025D , SRT, " Vessel Intimal Cross-Sectional		
%StA Inner Area	Area")		
%StD	(R-101BB , SRT, "Lumen Diameter Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow	(33878-0, LN, "Volume flow")		
IMT	(99200-05, MDSN, "Intima-media thickness")		
			(G-A118, SRT,
			"Proximal")
Dulh	(T-45170, SRT, "Carotid Bulb")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Bulb	(1-45170, SR1, Carolid Build)	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
ICA	(T-45300, SRT, "Internal Carotid Artery")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
10/1		(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
ECA	(T-45200, SRT, "External Carotid Artery")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
20/1	(1 10200, Civi, External Galetta Attory)	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Vertebral A	(T-45700, SRT, "Vertebral Artery")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
	, , , , , , , , , , , , , , , , , , , ,	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
Comment	(121106, DCM, "Comment")		

Table 9.2-7 LE Artery

	LE Artery			
RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical  Modifier	
CIA	(T-46710, SRT, "Common Iliac Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal")	
		(G-ATOT, SKT, Left)	(G-A119, SRT "Distal")	
PSV	(11726-7, LN, "Peak Systolic Velocity")			
EDV	(11653-3, LN, "End Diastolic Velocity")			
TAPV	(11692-1, LN, "Time averaged peak velocity")			
TAMV	(20352-1, LN, "Time averaged mean velocity")			
PGmax	(20247-3, LN, "Peak Gradient")			
PGmean	(20256-4, LN, "Mean Gradient")			
S/D	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")			
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity Ratio")			
RI	(12023-8, LN, "Resistivity Index")			
PI	(12008-9, LN, "Pulsatility Index")			
%StA	(R-101BA , SRT, "Lumen Area Stenosis")			
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional area")			
%StA Inner Area	(R-1025D , SRT, "Vessel Intimal Cross-Sectional Area")			
%StD	(R-101BB , SRT, "Lumen Diameter Stenosis")			
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")			
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")			
Vesl. Area	(99200-02, MDSN, "Vessel Area")			
Vol. Flow	(33878-0, LN, "Volume flow")			
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")			
IIA	(T-46740, SRT, "Internal Iliac Artery")	(G-A100, SRT, "Right")	(G-A118, SRT,	

		(G-A101, SRT, "Left")	"Proximal")
			(G-A188, SRT "Mid-
			longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
EIA	(T-46910, SRT, "External Iliac Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
CFA	(T-47400, SRT, "Common Femoral Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
054	(T. 47400, ODT "Our of init! Forestel Artes")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
SFA	(T-47403, SRT, "Superficial Femoral Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
DFA	(T. 47440, CDT "Profundo Fomorio Arton.")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
DFA	(T-47440, SRT, "Profunda Femoris Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Poplitos! A	(T-47500 SPT "Poplitoal Arton.")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Popliteal A	(T-47500, SRT, "Popliteal Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")

ATA	(T-47700, SRT, "Anterior Tibial Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A118, SRT,
РТА	(T-47600, SRT, "Posterior Tibial Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	"Proximal")  (G-A188, SRT "Mid-longitudinal")  (G-A119, SRT "Distal")
Peroneal A	(T-47630, SRT, "Peroneal Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal")
DPA	(T-47741, SRT, "Dorsalis Pedis Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal")
MPA	(T-47690, SRT, "Plantar Arterial Arch")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT,  "Proximal")  (G-A188, SRT "Mid-longitudinal")  (G-A119, SRT  "Distal")
LPA	(T-47690, SRT, "Plantar Arterial Arch")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal")

			(G-A118, SRT,
			"Proximal")
Metatarsal A	(00204 1 MDSN "Mototorgal Artony")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Welalarsal A	(99201-1, MDSN, "Metatarsal Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
	(99201-2, MDSN, "Digital Artery")		(G-A118, SRT,
			"Proximal")
Digital A		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Digital A		(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
Comment	(121106, DCM, "Comment")		

Table 9.2-8 LE Vein

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
CIV	(T-48920, SRT, "Common Iliac Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal")
Vmax	(99200-03, MDSN, "Max Velocity")		
Duration Time	(99200-04, MDSN, "Duration Time")		
Vesl. Dist.	(G-0365, SRT, "Vessel outside diameter")		
Vesl. Area.	(MDSN, 99200-02, "Vessel Area")		
TAMV	(LN, 20352-1, "Time averaged mean velocity")		
Vol. Flow	(LN, 33878-0, "Volume flow")		
IIV	(T-48940, SRT, "Internal iliac vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT

			"Distal")
			(G-A118, SRT,
			"Proximal")
EIV	(T-48930, SRT, "External Iliac Vein")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
LIV	(1-40930, SK1, External mac vent)	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
051	(O 005D 0DT "0	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
CFV	(G-035B, SRT, "Common Femoral Vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
SFV	(G-035A , SRT, "Superficial Femoral Vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
0.017		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
GSV	(T-49530, SRT, "Great Saphenous Vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
		(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Popliteal V	(T-49640, SRT, "Popliteal Vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
		(G-A100, SRT, "Right")	"Proximal")
LSV	(T-49550, SRT, "Lesser Saphenous Vein")	(G-A101, SRT, "Left")	(G-A188, SRT "Mid-
			longitudinal")

			(G-A119, SRT "Distal")
ATV	(T-49630, SRT, "Anterior Tibial Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal")
PTV	(T-49620, SRT, "Posterior Tibial Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal")
Peroneal V	(T-49650, SRT, "Peroneal Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal")
MPV	(99203-01, MDSN, "Medial Plantar Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal")
LPV	(99203-02, MDSN, "Lateral Plantar Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal")
Metatarsal V	(99203-03, MDSN, "Metatarsal Vein")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal")

			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Digital	(99203-04, MDSN, "Digital Vein")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Digital V		(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
Comment	(121106, DCM, "Comment")		

Table 9.2-9 UE Artery

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Subclavian A	(T-46100, SRT, "Subclavian Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Midlongitudinal") (G-A119, SRT
PSV	(11726-7, LN, "Peak Systolic Velocity")		"Distal")
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional area")		

%StA Inner Area	(R-1025D, SRT, "Vessel Intimal Cross-Sectional Area")		
%StD	(R-101BB, SRT, "Lumen Diameter Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow	(33878-0, LN, "Volume flow")		
			(G-A118, SRT,
			"Proximal")
Assillant A	(T 47400 CDT "Avillant Anton.")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Axillary A	(T-47100, SRT, "Axillary Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Drackiel A	(T-47160, SRT, "Brachial Artery")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Brachial A		(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Radial A	(T 47200 CDT "Dodiel Arten.")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Radiai A	(T-47300, SRT, "Radial Artery")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Ulnar A	(T-47200, SRT, "Ulnar Artery")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Olitai A	(1-47200, SK1, Ollial Artery)	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
SPA	(T-47240, SRT, "Superficial Palmar Arch")	(G-A100, SRT, "Right")	"Proximal")
SFA		(G-A101, SRT, "Left")	(G-A188, SRT "Mid-
			longitudinal")

		(G-A119, SRT
		"Distal")
Comment	(121106, DCM, "Comment")	

Table 9.2-10 UE Vein

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical
			Modifier
			(G-A118, SRT,
			"Proximal")
Internal Jugular V	(T-48170, SRT, "Internal Jugular vein")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
and the second s	(	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
Vmax	(99200-03, MDSN, "Max Velocity")		
Duration Time	(99200-04, MDSN, "Duration Time")		
Vesl. Dist.	(G-0365, SRT, "Vessel outside diameter")		
Vesl. Area.	(MDSN, 99200-02, "Vessel Area")		
TAMV	(LN, 20352-1, "Time averaged mean velocity")		
Vol. Flow	(LN, 33878-0, "Volume flow")		
			(G-A118, SRT,
			"Proximal")
Innominate V	(T 40000 CDT "Innominate vair")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
innominate v	(T-48620, SRT, "Innominate vein")	(G-A101, SRT, "Left")	"Proximal")  (G-A188, SRT "Mid-longitudinal")  (G-A119, SRT "Distal")  (G-A118, SRT, "Proximal")  (G-A188, SRT "Mid-longitudinal")  (G-A119, SRT "Distal")  (G-A188, SRT, "Mid-longitudinal")  (G-A118, SRT, "Proximal")  (G-A188, SRT "Mid-longitudinal")  (G-A188, SRT, "Mid-longitudinal")  (G-A188, SRT, "Proximal")  (G-A119, SRT "Distal")  (G-A119, SRT
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Subclavian V	(T 40000 CDT "Cub alaying unio")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
	(T-48330, SRT, "Subclavian vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
Axillary V		(C A400 CDT "Dial (")	(G-A118, SRT,
	(T-49110, SRT, "Axillary vein")	(G-A100, SRT, "Right")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A119, SRT "Distal") (G-A118, SRT, "Proximal") (G-A188, SRT "Mid-longitudinal") (G-A19, SRT "Distal") (G-A119, SRT
		(G-A101, SRT, "Left")	(G-A188, SRT "Mid-

			longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
D 1:177	(T-40350 SRT "Brachial vein")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Brachial V	(T-49350, SRT, "Brachial vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Combo - 15 - 17	(T 40040, CDT "Octobelling")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
Cephalic V	(T-49240, SRT, "Cephalic vein")	(G-A101, SRT, "Left")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Basilic V	/T 49052 CDT "Decilio veis"\	(G-A100, SRT, "Right")	"Distal")  (G-A118, SRT,  "Proximal")  (G-A188, SRT "Mid- longitudinal")  (G-A119, SRT  "Distal")
Dasilic v	(T-48052, SRT, "Basilic vein")	(G-A101, SRT, "Left")	
			"Distal")
			(G-A118, SRT,
			"Proximal")
Radial V	(T-49340, SRT, "Radial vein")	(G-A100, SRT, "Right")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A119, SRT
Radiai V	(1-49540, SIXT, TXadiai Veiii )	(G-A101, SRT, "Left")	
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
Ulnar V			"Proximal")
	(T-49330, SRT, "Ulnar vein")	(G-A100, SRT, "Right")	(G-A188, SRT "Mid-
	(1 43330, Olvi, Ollial Velli)	(G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A118, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A119, SRT "Distal") (G-A119, SRT "Distal") (G-A119, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT "Distal") (G-A118, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A188, SRT "Mid- longitudinal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT
			(G-A119, SRT
			"Distal")
Comment	(121106, DCM, "Comment")		

Table 9.2-11

TCD			
RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Basilar A	(T-45800, SRT, "Basilar Artery")	(G-A103, SRT, "Unilateral")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT
			"Distal")
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
S/D	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		
%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional area")		
%StA Inner Area	(R-1025D, SRT, "Vessel Intimal Cross-Sectional Area")		
%StD	(R-101BB, SRT, "Lumen Diameter Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		

Vol. Flow	(33878-0, LN, "Volume flow")		
ACA	/T 45540, CDT "Antonion Conshund Anton "	(G-A100, SRT, "Right")	
	(T-45540, SRT, "Anterior Cerebral Artery")	(G-A101, SRT, "Left")	
MCA	(T. 45000, CDT, "Middle Corobrel Arten,")	(G-A100, SRT, "Right")	
	(T-45600, SRT, "Middle Cerebral Artery")	(G-A101, SRT, "Left")	
PCA (P1)	(R-10253, SRT, "Posterior Cerebral Artery P1	(G-A100, SRT, "Right")	
	Segment")	(G-A101, SRT, "Left")	
PCA (P2)	(R-10255, SRT, "Posterior Cerebral Artery P2	(G-A100, SRT, "Right")	
	Segment")	(G-A101, SRT, "Left")	

Table 9.2-12 Abdomen Artery

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
			(G-A118, SRT,
			Modifier
Aorta	/T 42000 SPT "Acrto"\	(G-A103, SRT,	(G-A188, SRT "Mid-
Aona	(T-42000, SRT, "Aorta")	"Unilateral")	Modifier  (G-A118, SRT,  "Proximal")  (G-A188, SRT "Mid- longitudinal")  (G-A119, SRT
			(G-A119, SRT
			"Distal")
PSV	(11726-7, LN, "Peak Systolic Velocity")		
EDV	(11653-3, LN, "End Diastolic Velocity")		
TAPV	(11692-1, LN, "Time averaged peak velocity")		
TAMV	(20352-1, LN, "Time averaged mean velocity")		
PGmax	(20247-3, LN, "Peak Gradient")		
PGmean	(20256-4, LN, "Mean Gradient")		
0/5	(12144-2, LN, "Systolic to Diastolic Velocity		
S/D	Ratio")		
D/S	(99200-01, MDSN, "Diastolic to Systolic Velocity		
D/3	Ratio")		
RI	(12023-8, LN, "Resistivity Index")		
PI	(12008-9, LN, "Pulsatility Index")		
%StA	(R-101BA , SRT, "Lumen Area Stenosis")		

%StA Outer Area	(G-0366, SRT, "Vessel lumen cross-sectional area")		
%StA Inner Area	(R-1025D, SRT, "Vessel Intimal Cross-Sectional Area")		
%StD	(R-101BB, SRT, "Lumen Diameter Stenosis")		
%StD Outer Dist.	(G-0364, SRT, "Vessel lumen diameter")		
%StD Inner Dist.	(R-1025C , SRT, "Vessel Intimal Diameter")		
Vesl. Area	(99200-02, MDSN, "Vessel Area")		
Vesl. Dist	(G-0365, SRT, "Vessel outside diameter")		
Vol. Flow	(33878-0, LN, "Volume flow")		
		(G-A103, SRT,	
Celiac A	(T-46400, SRT, "Celiac Axis")	"Unilateral")	
		(G-A103, SRT,	
Splenic A	(T-46460, SRT, "Splenic Artery")	"Unilateral")	
SMA	(T-46510, SRT, "Superior Mesenteric Artery")	(G-A103, SRT, "Unilateral")	(G-A118, SRT,  "Proximal")  (G-A188, SRT "Mid- longitudinal")  (G-A119, SRT  "Distal")
IMA	(T-46520, SRT, "Inferior Mesenteric Artery")	(G-A103, SRT,	
		"Unilateral") (G-A103, SRT,	
Renal Aortic Ratio	(33869-9, LN, "Renal Artery/Aorta velocity ratio")	"Unilateral")	
Renal A. PSV	(99200-07, MDSN "Reanl A.PSV")	,,	
Aorta PSV	(99200-08, MDSN "Aorta PSV")		
	(T.40400 CDT III langtin	(G-A100, SRT, "Right")	
Hepatic A	(T-46420, SRT, "Hepatic artery")	(G-A101, SRT, "Left")	
Iliac A	(T-46710, SRT, "Common Iliac Artery")	(G-A100, SRT, "Right") (G-A101, SRT, "Left")	(G-A118, SRT, "Proximal") (G-A188, SRT "Mid- longitudinal") (G-A119, SRT

			"Distal")
G.D.A	(T. 4C440, CDT. "Control to done   Anton "	(G-A100, SRT, "Right")	
G.D.A	(T-46440, SRT, "Gastroduodenal Artery")	(G-A101, SRT, "Left")	

# Table 9.2-13 Abdomen Vein

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Hepatic V	(T-48720, SRT, "Hepatic Vein")	(G-A100, SRT, "Right")	
перапс у	(1-46720, SK1, Repaile Veili)	(G-A101, SRT, "Left")	
Vmax	(99200-03, MDSN, "Max Velocity")		
Duration Time	(99200-04, MDSN, "Duration Time")		
Vesl. Dist.	(G-0365, SRT, "Vessel outside diameter")		
Vesl. Area.	(MDSN, 99200-02, "Vessel Area")		
TAMV	(LN, 20352-1, "Time averaged mean velocity")		
Vol. Flow	(LN, 33878-0, "Volume flow")		
			(G-A118, SRT,
	(T-48710, SRT, "Inferior Vena Cava")		"Proximal")
11/0		(G-A103, SRT,	(G-A188, SRT "Mid-
IVC		"Unilateral")	longitudinal")
			(G-A119, SRT
			"Distal")
			(G-A118, SRT,
			"Proximal")
Dordol V	(T 40040, CDT   Down   \/cip  )	(G-A103, SRT,	(G-A188, SRT "Mid-
Portal V	(T-48810, SRT, "Portal Vein")	"Unilateral")	longitudinal")
			(G-A119, SRT
			"Distal")
CMAV/	/T 49940 CDT "Superior Mecentaria \/ai="\	(G-A103, SRT,	
SMV	(T-48840, SRT, "Superior Mesenteric Vein")	"Unilateral")	
10.477	/T 49040 CDT "Inferior Mecontorio \/cir."\	(G-A103, SRT,	
IMV	(T-48910, SRT, "Inferior Mesenteric Vein")	"Unilateral")	
Colorie V	/T 49900 CDT "Colonia \/a:="\	(G-A103, SRT,	
Splenic V	(T-48890, SRT, "Splenic Vein")	"Unilateral")	

Table 9.2-14
Abdomen Renal

	Abu	lomen Renal		
RS85 Label	DICOM SR Concept Name	Laterality	Vessel Branch	Topographical
	(CDS CV CM)	-		Modifier
				(G-A118, SRT, "Proximal")
Renal A	(T-46600, SRT, "Renal Artery")	(G-A100, SRT, "Right")	(G-A332, SRT,	(G-A188, SRT
		(G-A101, SRT, "Left")	"Main")	"Mid-longitudinal")
				(G-A119, SRT
				"Distal")
PSV	(11726-7, LN, "Peak Systolic			
	Velocity")			
EDV	(11653-3, LN, "End Diastolic			
	Velocity")			
TAPV	(11692-1, LN, "Time averaged			
17.11 V	peak velocity")			
TAMV	(20352-1, LN, "Time averaged			
.,	mean velocity")			
PGmax	(20247-3, LN, "Peak Gradient")			
PGmean	(20256-4, LN, "Mean Gradient")			
S/D	(12144-2, LN, "Systolic to			
C/D	Diastolic Velocity Ratio")			
D/S	(99200-01, MDSN, "Diastolic to			
270	Systolic Velocity Ratio")			
RI	(12023-8, LN, "Resistivity Index")			
PI	(12008-9, LN, "Pulsatility Index")			
%StA	(R-101BA , SRT, "Lumen Area			
7001A	Stenosis")			
%StA Outer Area	(G-0366, SRT, "Vessel lumen			
700tA Outer Area	cross-sectional area")			
%StA Inner Area	(R-1025D, SRT, "Vessel Intimal			
7000 Ciriller Alea	Cross-Sectional Area")			
%StD	(R-101BB, SRT, "Lumen			
%5เป	Diameter Stenosis")			

	(G-0364, SRT, "Vessel lumen			
%StD Outer Dist.	diameter")			
	(R-1025C , SRT, "Vessel Intimal			
%StD Inner Dist.	Diameter")			
	(99200-02, MDSN, "Vessel			
Vesl. Area	Area")			
	(G-0365, SRT, "Vessel outside			
Vesl. Dist	diameter")			
Vol. Flow	(33878-0, LN, "Volume flow")			
701011	(OSCIO O, LIV, VOIGINO NOV.)			(G-A118, SRT,
				"Proximal")
		(G-A100, SRT, "Right")	(99201-4, MDSN,	(G-A188, SRT
Upper Renal A	(T-46600, SRT, "Renal Artery")	(G-A101, SRT, "Left")		
		(G-ATOT, SKT, Left)	"Upper")	"Mid-longitudinal") (G-A119, SRT
				"Distal")
				(G-A118, SRT,
				"Proximal")
Lower Renal A	(T-46600, SRT, "Renal Artery")	(G-A100, SRT, "Right")	(99201-5, SRT,	(G-A188, SRT
		(G-A101, SRT, "Left")	"Lower")	"Mid-longitudinal")
				(G-A119, SRT
				"Distal")
				(G-A118, SRT,
				"Proximal")
Arcuate Renal A	(T-4668A, SRT, "Arcuate Artery	(G-A100, SRT, "Right")		(G-A188, SRT
Arcuate RenarA	of the Kidney")	(G-A101, SRT, "Left")		"Mid-longitudinal")
				(G-A119, SRT
				"Distal")
				(G-A118, SRT,
				"Proximal")
Labriday Danal A	(T-4667D, SRT, "Interlobar	(G-A100, SRT, "Right")		(G-A188, SRT
Lobular Renal A	Artery of Kidney")	(G-A101, SRT, "Left")		"Mid-longitudinal")
				(G-A119, SRT
				"Distal")
A	(99201-3, MDSN, "Arcuate	(G-A100, SRT, "Right")		
Arcuate A	Artery")	(G-A101, SRT, "Left")		
Renal Vein	(SRT, T-48740, "Renal Vein")	(G-A100, SRT, "Right")		

	(G-A101, SRT, "Left")		
--	-----------------------	--	--

Table 9.2-15 Abdomen (2D)

RS85 Label	DICOM SR Concept Name (CDS CV CM)	Laterality	Topographical Modifier
Liver	(T \$2000 SPT "Liver")	(G-A103, SRT,	
Liver	(T-62000, SRT, "Liver")	"Unilateral")	
Coloon	(T-C3000, SRT, "Spleen")	(G-A103, SRT,	
Spleen		"Unilateral")	
Gall bladder	(T-63000, SRT, "Gall bladder")	(G-A103, SRT,	
Gall blaudel		"Unilateral")	
Pancreas	(T.65000 SPT "Ponorogo")	(G-A103, SRT,	
Fancieas	(T-65000, SRT, "Pancreas")	"Unilateral")	
Pancreas Head	(99016-2, MDSN, "Pancreas Head")		
Pancreas Body	(99016-3, MDSN, "Pancreas Body")		
Pancreas Tail	(99016-4, MDSN, "Pancreas Tail")		
Bowel	(99016-6, MDSN, "Bowel")		
Kidnov	/T 74000 CDT   //dpoy  \	(G-A100, SRT, "Right")	
Kidney	(T-71000, SRT, "Kidney")	(G-A101, SRT, "Left")	
Kidney Vol.	99016-19, MDSN, "Kidney Volume")		
Kidney L	(99016-20 MDSN, "Kidney Length")		
Kidney W	(99016-21 MDSN, "Kidney Width")		
Kidney H	(99016-22 MDSN, "Kidney Height")		

#### 9.3 ADULT ECHOCARDIOGRAPHY STRUCTURED REPORT TEMPLATE

# 9.3.1 Adult Echocardiography Ultrasound Report Templates(TID 5200)

Table 9.3-1
Adult Echocardiography Ultrasound Procedure Report Tempalte

No	Rel With	VT	Concept Name	Comments
	Parent		·	
			EV (125200, DCM, "Adult	
1		CONTAINER	Echocardiography	
			Procedure Report")	
	HAS		DTID (1204) Language of	
2	CONCEPT	INCLUDE	Content Item and	
	MOD		Descendants	
	HAS OBS	INOLLIDE	DTID (1001) Observation	
3	CONTEXT	INCLUDE	Context	
			DTID (5201)	
4	CONTAINS	INCLUDE	Echocardiography Patient	
			Characteristics	
			(111028, DCM, "Image	
5	CONTAINS	CONTAINER	Library")	
6	CONTAINS	IMAGE	No purpose of reference	
				\$SectionSubject = EV (T-32600, SRT, "Left Ventricle")
7	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12200) Echocardiography Left
				Ventricle
				\$SectionSubject = EV (T-32500, SRT, "Right Ventricle")
8	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12204) Echocardiography Right
				Ventricle
				\$SectionSubject = EV (T-32300, SRT, "Left Atrium")
9	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12205) Echocardiography Left
				Atrium
				\$SectionSubject = EV (T-32200, SRT, "Right Atrium")
10	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12206) Echocardiography Right
				Atrium
11	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$SectionSubject = EV (T-35400, SRT, "Aortic Valve")

				\$MeasType = DCID (12211) Echocardiography Aortic
				Valve
				\$SectionSubject = EV (T-35300, SRT, "Mitral Valve")
12	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12207) Echocardiography Mitral
				Valve
				\$SectionSubject = EV (T-35200, SRT, "Pulmonic Valve")
13	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12209) Echocardiography
				Pulmonic Valve
				\$SectionSubject = EV (T-35100, SRT, "Tricuspid Valve")
14	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12208) Echocardiography
				Tricuspid Valve
45	CONTAINC	INCLUDE	DTID (5000) Falsa Castian	\$SectionSubject = EV (T-42000, SRT, "Aorta")
15	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType= DCID (12212) Echocardiography Aorta
				\$SectionSubject = EV (T-44000, SRT, "Pulmonary
16	CONTAINS	INCLUDE	DTID (F202) Faha Castian	artery")
16	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType DCID (12210) = Echocardiography
				Pulmonary Artery
				\$SectionSubject = EV (T-48600, SRT, "Vena Cava"
17	CONTAINS	INCLUDE	DTID (5202) Echo Section	\$MeasType = DCID (12215) Echocardiography Vena
				Cavae
				\$SectionSubject = EV (T-48581, SRT, "Pulmonary
18	CONTAINS	INCLUDE	DTID (5202) Echo Section	Venous Structure"
10	CONTAINS	INCLUDE	DTID (3202) ECHO Section	\$MeasType = DCID (12214) Echocardiography
				Pulmonary Veins
				\$SectionSubject = EV (P5-30031, SRT, "Cardiac Shunt
19	CONTAINS	INCLUDE	DTID (5202) Echo Section	Study")
19	CONTAINS	INCLUDE	DTID (3202) ECHO Section	\$MeasType = DCID (12217) Echocardiography Cardiac
				Shunt
			DTID (SM99210) Adult Echo	
20	CONTAINS	INCLUDE	User Creation Group	Ref. Section 9.3.1.1
			Section	

# 9.3.1.1 Adult Echo User Creation Group Section (TID SM99210) Table 9.3-2

**User Creation Group Section in Adult Echo SR** 

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
C-20	CONTAINS	CONTAINER	(99900-Creation ID, MDSN, "User Creation Group Name")	value	2000	*Creation ID: Randomly generated 7-digit unique ID
C-20-1	CONTAINS	NUM	(99900-Creation ID, MDSN, "User Creation Item Name")			
C-20-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

# 9.3.2 Cardiac Measurement and Calculation used in Adult Echocardiography SR

- Label Label of measurement or calculation used in Cardiac Calc. package for the Ultrasound System
- FSite Finding Site
- Concept (CV, CSD, "Concept Name")
- Modifier Additional codes and Modifiers used

Table 9.3-3
Cardiac Measurement and Calculation

Label	FSite	Concept	Modifiers
LVIDd	Left Ventricle	(29436-3, LN, "Left Ventricle Internal End	
LVIDa	Len ventricie	Diastolic Dimension")	
LVIDs	Left Ventricle	(29438-9, LN, "Left Ventricle Internal Systolic	
LVIDS	Len ventricie	Dimension")	
Frac Short	Left Ventricle	(18051-3, LN, "Left Ventricular Fractional	
Frac Short	Len ventricie	Shortening")	Image Mode = 2D mode
IVSd	Left Ventricle	(18154-5, LN, "Interventricular Septum	
IVSu	Len ventricie	Diastolic Thickness")	
IVSs	Left Ventricle	(18158-6, LN, "Interventricular Septum	
1735	Leit ventilicie	Systolic Thickness")	
IVS% Thickening	Left Ventricle	(18054-7, LN, "Interventricular Septum %	

		Thickening")	
1.) (5) (4)	1 6 3 / 1	(18152-9, LN, "Left Ventricle Posterior Wall	
LVPWd	Left Ventricle	Diastolic Thickness")	
L) (D)A/-	1 - # \ / t-i - 1 -	(18156-0, LN, "Left Ventricle Posterior Wall	
LVPWs	Left Ventricle	Systolic Thickness")	
LVPW%	1 - # \ / t-i - 1 -	(18053-9, LN, "Left Ventricle Posterior Wall %	
Thickening	Left Ventricle	Thickening")	
1/\C4\1/\D\\\4	l oft \/ontriolo	(18155-2, LN, "Interventricular Septum to	Image Mode = 2D mode
IVSd/LVPWd	Left Ventricle	Posterior Wall Thickness Ratio")	Cardiac Cycle Point = Diastole
1\/\$a/L\/D\\/a	Left Ventricle	(18155-2, LN, "Interventricular Septum to	Image Mode = 2D mode
IVSs/LVPWs	Leit ventricle	Posterior Wall Thickness Ratio")	Cardiac Cycle Point = Systole
\\al_d\/Ta;abbal=\	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
Vol.d(Teichholz)	Leit ventricle	Volume")	Measurement Method = Teichholz
\\al_d\(\C\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	l oft \/omtviolo	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
Vol.d(Cubed)	Left Ventricle	Volume")	Measurement Method = Cube Method
\/ol d/Pullot\	l oft \/ontriolo	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
Vol.d(Bullet)	Left Ventricle	Volume")	Measurement Method = Bullet Method
Val a/Taiabhalz)	l oft Vantriala	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s(Teichholz)	Left Ventricle	Volume")	Measurement Method = Teichholz
\\al_a\C\\\bad\\	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s(Cubed)	Len ventricie	Volume")	Measurement Method = Cube Method
\/ol o/Pullot\	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s(Bullet)	Len ventricie	Volume")	Measurement Method = Bullet Method
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection Fraction")	Image Mode = 2D mode
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode"
СО	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = 2D mode
Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = 2D mode
D) // D -/	Dimb# \/ toil-1	(20304-2, LN, "Right Ventricular Internal	Janes Mada OD was de
RVIDd	Right Ventricle	Diastolic Dimension")	Image Mode = 2D mode
D) #D	Disk()/ (1)	(20305-9, LN, "Right Ventricular Internal	January Marks (2D)
RVIDs	Right Ventricle	Systolic Dimension")	Image Mode = 2D mode
RVAWd	Right Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall	Image Mode = 2D mode

		Diastolic Thickness")	
RVAWs	Right Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall	Image Mode = 2D mode
		Systolic Thickness")	mage mede = 25 mede
TAPSE	Right Ventricle	(99105-16, MDSN, Tricuspid Annular Plane	Image Mode = M mode
_		Systolic Excursion)	
LVIDd	Left Ventricle	(29436-3, LN, "Left Ventricle Internal End	Image Mode = M mode
-		Diastolic Dimension")	
LVIDs	Left Ventricle	(29438-9, LN, "Left Ventricle Internal Systolic	Image Mode = M mode
		Dimension")	5
Frac Short	Left Ventricle	(18051-3, LN, "Left Ventricular Fractional	Image Mode = M mode
		Shortening")	
IVSd	Left Ventricle	(18154-5, LN, "Interventricular Septum	Image Mode = M mode
		Diastolic Thickness")	-
IVSs	Left Ventricle	(18158-6, LN, "Interventricular Septum	Image Mode = M mode
		Systolic Thickness")	-
IVS% Thickening	Left Ventricle	(18054-7, LN, "Interventricular Septum %	Image Mode = M mode
-		Thickening")	
LVPWd	Left Ventricle	(18152-9, LN, "Left Ventricle Posterior Wall	Image Mode = M mode
		Diastolic Thickness")	
LVPWs	Left Ventricle	(18156-0, LN, "Left Ventricle Posterior Wall	Image Mode = M mode
		Systolic Thickness")	
MAPSE	Left Ventricle	(99104-10, MDSN, "Mitral Annular Plane	Image Mode = M mode
		Systolic Excursion")	
LVPW%	Left Ventricle	(18053-9, LN, "Left Ventricle Posterior Wall %	Image Mode = M mode
Thickening		Thickening")	
IVSd/LVPWd	Left Ventricle	(18155-2, LN, "Interventricular Septum to	Image Mode = M mode
IVSs/LVPWs		Posterior Wall Thickness Ratio")	langua Mada - Marada
Vol.d(Teichholz)	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = M mode
		Volume")	Measurement Method = Teichholz
Vol.d(Cubed)	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic Volume")	Image Mode = M mode  Measurement Method = Teichholz
		,	Measurement Method = Telchholz
Vol.s(Teichholz)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = M mode
		Volume")	
Vol.s(Cubed)	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic	Image Mode = M mode
	1 04 1/0 - 4 - 1 -	Volume")	langua Mada - Mara-d-
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection	Image Mode = M mode

		Fraction")	
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = M mode
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = M mode
СО	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = M mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = M mode
Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = M mode
RVIDd	Left Ventricle	(20304-2, LN, "Right Ventricular Internal Diastolic Dimension")	Image Mode = M mode
RVIDs	Left Ventricle	(20305-9, LN, "Right Ventricular Internal Systolic Dimension")	Image Mode = M mode
RVAWd	Left Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall Diastolic Thickness")	Image Mode = M mode
RVAWs	Left Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall Systolic Thickness")	Image Mode = M mode
A4C d Length	Left Ventricle	(29436-3, LN, "Left Ventricle Internal End	Image Mode = 2D mode Image View = Apical Four Chamber Measurement Method = Method Of Disks, Single Plane
A2C d Length	Left Ventricle	Diastolic Dimension")	Image Mode = 2D mode Image View = Apical Two Chamber Measurement Method = Method of Disks, Single Plane
A4C s Length	Left Ventricle	(29438-9, LN, "Left Ventricle Internal Systolic	Image Mode = 2D mode Image View = Apical Four Chamber Measurement Method = Method Of Disks, Single Plane
A2C s Length	Left Ventricle	Dimension")	Image Mode = 2D mode Image View = Apical Two Chamber Measurement Method = Method of Disks, Single Plane
A4C d Area	Left Ventricle	(G-0375, SRT, "Left Ventricular Diastolic	Image Mode = 2D mode Image View = Apical Four Chamber Measurement Method = Method Of Disks, Single Plane
A2C d Area	Left Ventricle	Area")	Image Mode = 2D mode Image View = Apical Two Chamber

			Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
LVAd SAX MV	Left Ventricle		Image View = Parasternal short axis
			Measurement Method = \Bullet Method
			Image Mode = 2D mode
A 40 - A	l aft Manstriala		Image View = Apical Four Chamber
A4C s Area	Left Ventricle		Measurement Method = Method Of
			Disks, Single Plane
		C 0274 CDT III off Ventrioular Custolia	Image Mode = 2D mode
A 2 C - A	Left Ventricle	(G-0374, SRT, "Left Ventricular Systolic	Image View = Apical Two Chamber
A2C s Area	Leit ventricle	Area")	Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
LVAs SAX MV	Left Ventricle		Image View = Parasternal short axis
			Measurement Method = Bullet Method
	Left Ventricle		Image Mode = 2D mode
A4C Vol.d			Image View = Apical Four Chamber
A4C Vol.d			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic Volume")	Image Mode = 2D mode
A2C Vol.d			Image View = Apical Two Chamber
AZC VOI.d			Measurement Method = Method of
			Disks, Single Plane
			Image Mode = 2D mode
BP Vol.d	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
A4C Vol.s	Left Ventricle		Image View = Apical Four Chamber
	Leit veritricle		Measurement Method = Method Of
		(18148-7, LN, "Left Ventricular End Systolic	Disks, Single Plane
		Volume")	Image Mode = 2D mode
A2C Vol.s	Left Ventricle		Image View = Apical Two Chamber
AZC VOI.S			Measurement Method = Method of
			Disks, Single Plane

			Image Mode = 2D mode
BP Vol.s	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
			Image View = Apical Four Chamber
A4C EF	Left Ventricle		Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
A20 FF	l oft \/omtviolo	(40040 0 IN #Left Ventricular Fig. 4	Image View = Apical Two Chamber
A2C EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection	Measurement Method = Method of
		Fraction")	Disks, Single Plane
			Image Mode = 2D mode
BP EF	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
FF(Dullet)	l oft \/outviolo		Image Mode = 2D mode
EF(Bullet)	Left Ventricle		Measurement Method = Bullet Method
	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode
A 40 0V			Image View = Apical Four Chamber
A4C SV			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle		Image Mode = 2D mode
A2C SV			Image View = Apical Two Chamber
AZC SV			Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
BP SV	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
O) / (D. III - 4)	l of Working		Image Mode = 2D mode
SV (Bullet)	Left Ventricle		Measurement Method = Bullet Method
A4C SI			Image Mode = 2D mode
	l oft \/omtviolo		Image View = Apical Four Chamber
	Left Ventricle		Measurement Method = Method Of
		(F-00078, SRT, "Stroke Index")	Disks, Single Plane
			Image Mode = 2D mode
A2C SI	Left Ventricle		Image View = Apical Two Chamber
			Measurement Method = Method Of

			Disks, Single Plane
			Image Mode = 2D mode
BP SI	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
			Image Mode = 2D mode
A 40 00	l aft Manatriala		Image View = Apical Four Chamber
A4C CO	Left Ventricle		Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
120.00	l oft Vontriolo		Image View = Apical Two Chamber
A2C CO	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Measurement Method = Method Of
			Disks, Single Plane
			Image Mode = 2D mode
BP CO	Left Ventricle		Measurement Method = Method of
			Disks, Biplane
CO (Bullet)	Left Ventricle		Image Mode = 2D mode
CO (Bullet)	Leit ventricle		Measurement Method = Bullet Method
	Left Ventricle		Image Mode = 2D mode
A4C CI			Image View = Apical Four Chamber
A4C CI			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle		Image Mode = 2D mode
A2C CI		(F-32110, SRT, "Cardiac Index")	Image View = Apical Two Chamber
AZO OI			Measurement Method = Method Of
			Disks, Single Plane
	Left Ventricle		Image Mode = 2D mode
BP CI			Measurement Method = Method of
			Disks, Biplane
CI (Bullet)	Left Ventricle		Image Mode = 2D mode
Of (Bullet)	Lon vermore		Measurement Method = Bullet Method
Vol.d		(18026-5, LN, "Left Ventricular End Diastolic	Image Mode = 2D mode
	Left Ventricle	Volume")	Measurement Method = Area-Length
		volume )	Single Plane
		(18148-7, LN, "Left Ventricular End Systolic	Image Mode = 2D mode
Vol.s	Left Ventricle	Volume")	Measurement Method = Area-Length
			Single Plane

EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection Fraction")	Image Mode = 2D mode  Measurement Method = Area-Length  Single Plane
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode  Measurement Method = Area-Length  Single Plane
SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode  Measurement Method = Area-Length  Single Plane
SI (Bullet)	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode  Measurement Method = Bullet Method
со	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode  Measurement Method = Area-Length  Single Plane  Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Measurement Method = Area-Length Single Plane
LVAd sax	Left Ventricle	(G-0375, SRT, "Left Ventricular Diastolic Area")	Image Mode = 2D mode Image View = Parasternal short axis
LVAs sax	Left Ventricle	(G-0374, SRT, "Left Ventricular Systolic Area")	Image Mode = 2D mode Image View = Parasternal short axis
LVLd apical	Left Ventricle	(18077-8, LN, "Left Ventricle diastolic major axis")	Image Mode = 2D mode
LVLd apical (Bullet)	Left Ventricle	(18077-8, LN, "Left Ventricle diastolic major axis")	Image Mode = 2D mode  Measurement Method = Bullet Method
LVLs apical	Left Ventricle	(18076-0, LN, "Left Ventricle systolic major axis")	Image Mode = 2D mode
LVLs apical (Bullet)	Left Ventricle	(18076-0, LN, "Left Ventricle systolic major axis")	Image Mode = 2D mode  Measurement Method = Bullet Method
Vol.d	Left Ventricle	(18026-5, LN, "Left Ventricular End Diastolic Volume")	Image Mode = 2D mode
Vol.s	Left Ventricle	(18148-7, LN, "Left Ventricular End Systolic Volume")	Image Mode = 2D mode
EF	Left Ventricle	(18043-0, LN, "Left Ventricular Ejection Fraction")	Image Mode = 2D mode
SV	Left Ventricle	(F-32120, SRT, "Stroke Volume")	Image Mode = 2D mode

SI	Left Ventricle	(F-00078, SRT, "Stroke Index")	Image Mode = 2D mode
СО	Left Ventricle	(F-32100, SRT, "Cardiac Output")	Image Mode = 2D mode
CI	Left Ventricle	(F-32110, SRT, "Cardiac Index")	Image Mode = 2D mode
Frac. Short	Left Ventricle	(18051-3, LN, "Left Ventricular Fractional Shortening")	Image Mode = 2D mode
Frac. Area Change	Left Ventricle	(G-0376, SRT, "Left Ventricular Fractional Area Change")	Image Mode = 2D mode
LVAd sax epi	Left Ventricle	(G-0379, SRT, "Left Ventricle Epicardial Diastolic Area, psax pap view")	Image Mode = 2D mode
LVLd apical	Left Ventricle	(18077-8, LN, "Left Ventricle diastolic major axis")	Image Mode = 2D mode
LV Mass	Left Ventricle	(18087-7, LN, "Left Ventricle Mass")	Image Mode = 2D mode
RVIDd	Right Ventricle	(20304-2, LN, "Right Ventricular Internal Diastolic Dimension")	Image Mode = 2D mode
RVIDs	Right Ventricle	(20305-9, LN, "Right Ventricular Internal Systolic Dimension")	Image Mode = 2D mode
RVAWd	Right Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall Diastolic Thickness")	Image Mode = 2D mode
RVAWs	Right Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall Systolic Thickness")	Image Mode = 2D mode
MPA Diam	Right Ventricle	(18020-8, LN, "Main Pulmonary Artery Diameter")	
RPA Diam	Right Ventricle	(18021-6, LN, "Right Pulmonary Artery Diameter")	
LPA Diam	Right Ventricle	(18019-0, LN, "Left Pulmonary Artery Diameter")	
RVIDd	Right Ventricle	(20304-2, LN, "Right Ventricular Internal Diastolic Dimension")	Image Mode = M mode
RVIDs	Right Ventricle	(20305-9, LN, "Right Ventricular Internal Systolic Dimension")	Image Mode = M mode
RVAWd	Right Ventricle	(18153-7, LN, "Right Ventricle Anterior Wall Diastolic Thickness")	Image Mode = M mode
RVAWs	Right Ventricle	(18157-8, LN, "Right Ventricular Anterior Wall Systolic Thickness")	Image Mode = M mode
LA Diam	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior	Image Mode = 2D mode

		Systolic Dimension")	
LA Area	Left Atrium	(17977-0, LN, "Left Atrium Systolic Area")	Image Mode = 2D mode
LA Vol.	Left Atrium	(G-0383, SRT, "Left Atrium Systolic Volume")	Image Mode = 2D mode
Ao Root	Aorta	(18015-8, LN, Aortic Root Diameter)	Image Mode = 2D mode
LA Diam.	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior Systolic Dimension")	Image Mode = 2D mode
LA/Ao	Left Atrium	(17985-3, LN, "Left Atrium to Aortic Root Ratio")	Image Mode = 2D mode
LVOT Diam	Left Ventricular Outflow Tract	(G-038F, SRT, "Cardiovascular Orifice Diameter")	
Asc Ao	Aorta	(18012-5, LN, "Ascending Aortic Diameter")	
Desc Ao	Aorta	(18013-3, LN, "Descending Aortic Diameter")	
Ao Arch	Aorta	(18011-7, LN, "Aortic Arch Diameter")	
Ao Isth Diam	Aorta	(18014-1, LN, "Aortic Isthmus Diameter")	
Ao Root	Aorta	(18015-8, LN, "Aortic Root Diameter")	Image Mode = M mode
AV Cusp Sep	AV	(17996-0, LN, "Aortic Valve Cusp Separation")	Image Mode = M mode
LA Diam.	Left Atrium	(29469-4, LN, "Left Atrium Antero-posterior Systolic Dimension")	Image Mode = M mode
LA/Ao	Left Atrium	(17985-3, LN, "Left Atrium to Aortic Root Ratio")	Image Mode = M mode
RAP	Right Atrium	(G-0380, SRT, "Right Ventricular Peak Systolic Pressure")	
RAAs	Right Atrium	(17988-7, LN, "Right Atrium Systolic Area")	
IVC Diam Ins.	Right Atrium	(18006-7, LN, "Inferior Vena Cava Diameter")	Respiratory Cycle Point = During Inspiration
IVC Diam Exp.	Right Atrium	(18006-7, LN, "Inferior Vena Cava Diameter")	Respiratory Cycle Point = During Expiration
IVC % Change	Right Atrium	(18050-5, LN, "Inferior Vena Cava % Collapse")	
LVOT Diam	Left Ventricular	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
LVOI DIAIII	Outflow Tract	Diameter")	mage Mode - 2D mode
LVOT Area	Left Ventricular Outflow Tract	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
Vmax	Left Ventricular	(11726-7, LN, "Peak Velocity")	

	Outflow Tract		
	Left Ventricular	(000470 111 (77) 1 0 11 (77)	
Pgmax	Outflow Tract	(20247-3, LN, "Peak Gradient")	
.,	Left Ventricular	(0005041N1 #14 - 1/1   1/	
Vmean	Outflow Tract	(20352-1, LN, "Mean Velocity")	
	Left Ventricular	(00050 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pgmean	Outflow Tract	(20256-4, LN, "Mean Gradient")	
\/TI	Left Ventricular	(00054.7.1.N. (%)/-lesite.Time.Internel(%)	
VTI	Outflow Tract	(20354-7, LN, "Velocity Time Integral")	
AssT	Left Ventricular	(20400 4 INI "Acceleration Time")	
AccT	Outflow Tract	(20168-1, LN, "Acceleration Time")	
6)/	Left Ventricular	(F 22420 CDT "Chroke Valuese")	
SV	Outflow Tract	(F-32120, SRT, "Stroke Volume")	
00	Left Ventricular	(F 22400 CDT "Conding Output")	
CO	Outflow Tract	(F-32100, SRT, "Cardiac Output")	
	Right	/C 029E SPT "Condinuoscular Orifica	
RVOT Diam	Ventricular	(G-038F, SRT, "Cardiovascular Orifice	
	Outflow Tract	Diameter")	
	Right	(G-038E, SRT, "Cardiovascular Orifice Area")	
RVOT Area	Ventricular		
	Outflow Tract		
	Right	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
PVA(Vmax)	Ventricular		Equation by Peak Velocity
	Outflow Tract		Equation by Feak velocity
	Right		Measurement Method = Continuity
TVA(Vmax)	Ventricular	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Peak Velocity
	Outflow Tract		Equation by Feak Velocity
	Right		
Vmax	Ventricular	(11726-7, LN, "Peak Velocity")	
	Outflow Tract		
Vmean	Right		
	Ventricular	(20352-1, LN, "Mean Velocity")	
	Outflow Tract		
	Right		
Pgmax	Ventricular	(20247-3, LN, "Peak Gradient")	
	Outflow Tract		

	Right		
Pgmean	Ventricular	(20256-4, LN, "Mean Gradient")	
	Outflow Tract		
	Right		
VTI	Ventricular	(20354-7, LN, "Velocity Time Integral")	
	Outflow Tract		
	Right		
SV	Ventricular	(F-32120, SRT, "Stroke Volume")	
	Outflow Tract		
	Right		
CO	Ventricular	(F-32100, SRT, "Cardiac Output")	
	Outflow Tract		
AV 0	A	(17996-0, LN, "Aortic Valve Cusp	lucas Mada OD mada
AV Cusp	Aortic Valve	Separation")	Image Mode = 2D mode
		(G-038F, SRT, "Cardiovascular Orifice	
AV Diam	Aortic Valve	Diameter")	Image Mode = 2D mode
	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
AVA Planimetry			Measurement Method = Planimetry
		(0.0005_007_00_1;	Measurement Method = Continuity
AVA(Vmax)	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Peak Velocity
			Measurement Method = Continuity
AVA(VTI)	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Velocity Time Integral
AV Vmax	Aortic Valve	(11726-7, LN, "Peak Velocity")	
AV Vmean	Aortic Valve	(20352-1, LN, "Mean Velocity")	
AV PGmax	Aortic Valve	(20247-3, LN, "Peak Gradient")	
AV PGmean	Aortic Valve	(20256-4, LN, "Mean Gradient")	
AV PHT	Aortic Valve	(20280-4, LN, "Pressure Half-Time")	
AV VTI	Aortic Valve	(20354-7, LN, "Velocity Time Integral")	
AV AccT	Aortic Valve	(20168-1, LN, "Acceleration Time")	
AV DecT	Aortic Valve	(20217-6, LN, "Deceleration Time")	
AV Dec	Aortic Valve	(20216-8, LN, "Deceleration Slope"	
AV EjectT	Aortic Valve	(18041-4, LN, Aortic Valve Ejection Time)	
0) ( 0 7/77	A (* ) ( )	(G-0382, SRT, "Ratio of Aortic Valve	
AV AccT/ET	Aortic Valve	Acceleration Time to Ejection Time")	
AR VC Diam	Aortic Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode

		Diameter")	Flow Direction = Regurgitant Flow
AR Vmax	Aortic Valve	(11726-7, LN, "Peak Velocity")	
AR Vmean	Aortic Valve	(20352-1, LN, "Mean Velocity")	
AR PGmax	Aortic Valve	(20247-3, LN, "Peak Gradient")	
AR PGmean	Aortic Valve	(20256-4, LN, "Mean Gradient")	
AR PHT	Aortic Valve	(20280-4, LN, "Pressure Half-Time")	
AR VTI	Aortic Valve	(20354-7, LN, "Velocity Time Integral")	
AR AccT	Aortic Valve	(20168-1, LN, "Acceleration Time")	
AR DecT	Aortic Valve	(20217-6, LN, "Deceleration Time")	
AR Dec	Aortic Valve	(20216-8, LN, "Deceleration Slope"	
AR PISA Rad.	Aortic Valve	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Image Mode = 2D mode  Measurement Method = Proximal  Isovelocity Surface Area
AR Flow Rate	Aortic Valve	(34141-2, LN, "Peak Instantaneous Flow Rate")	
AR ERO	Aortic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Proximal Isovelocity Surface Area
AR Volume	Aortic Valve	(33878-0, LN, "Volume Flow")	Measurement Method = Proximal Isovelocity Surface Area
AR Fraction	Aortic Valve	(G-0390-4, SRT, "Regurgitant Fraction")	
AV IVRT	Aortic Valve	(18071-1, LN, "Left Ventricular Isovolumic Relaxation Time")	
AV IVCT	Aortic Valve	(G-037E, SRT, "Left Ventricular Isovolumic Contraction Time")	
Tei Index	Aortic Valve	(G-037F, SRT, "Left Ventricular Index of Myocardial Performance")	
E-F Slope	Mitral Valve	(18040-6, LN, "Mitral Valve E-F Slope by M-Mode")	
EPSS	Mitral Valve	(18036-4, LN, "Mitral Valve EPSS, E wave")	
MV Ann Diam	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Image Mode = 2D mode Finding Site = Mitral Annulus Flow Direction = Antegrade Flow
Diam1	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Image Mode = 2D mode
Diam2	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode

		Diameter")	
MVA Planimetry	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Planimetry
MVArea	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
NA) (A () (ma ma)	Mitral Value	(C. 020E, CDT "Conditions and Confine Area")	Measurement Method = Continuity
MVA(Vmax)	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Peak Velocity
MVA (DLIT)	Mitral Valve	(C.039E_SDT "Cardiovascular Orifice Area")	Flow Direction = Antegrade Flow
MVA(PHT)	Milital Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Area by PHT
MVA(VTI)	Mitral Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
WWA(VII)	wiitiai vaive	(G-036E, SK1, Cardiovasculai Office Area )	Equation by Velocity Time Integral
MV Peak A	Mitral Valve	(17978-8, LN, "Mitral Valve A-Wave Peak	
IVIV FEAKA	wiitiai vaive	Velocity")	
MV Peak E	Mitral Valve	(18037-2, LN, "Mitral Valve E-Wave Peak	
WW I Eak L	wiitiai vaive	Velocity")	
MV E/A	Mitral Valve	(18038-0, LN, "Mitral Valve E to A Ratio")	
MV Vmax	Mitral Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow
MV Vmean	Mitral Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow
MV PGmax	Mitral Valve	(18057-0, LN, "Mitral Valve Diastolic Peak	Flow Direction - Antegrade Flow
WV PGIIIAX		Instantaneous Gradient")	Flow Direction = Antegrade Flow
MV PGmean	Mitral Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow
MV PHT	Mitral Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow
MV VTI	Mitral Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow
MV AccT	Mitral Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow
MV DecT	Mitral Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow
MV Dec	Mitral Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow
MV AccT/DecT	Mitral Valve	(G-0386, SRT, "Mitral Valve AT/DT Ratio")	
MV A Dur	Mitral Valve	(G-0385, SRT, "Mitral Valve A-Wave	
IVIV A Dui	wiitai vaive	Duration")	
SV	Mitral Valve	(F-32120, SRT, "Stroke Volume")	
СО	Mitral Valve	(F-32100, SRT, "Cardiac Output")	
MV/IV/DT	Mitral Valve	(18071-1, LN, "Left Ventricular Isovolumic	
MV IVRT	wiitrai vaive	Relaxation Time")	
MVIVOT	Mitrol Volvo	(G-037E, SRT, "Left Ventricular Isovolumic	
MV IVCT	Mitral Valve	Contraction Time")	
Tei Indov	Mitral Valva	(G-037F, SRT, "Left Ventricular Index of	
Tei Index	Mitral Valve	Myocardial Performance ")	

MR Vmax	Mitral Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow
MR Vmean	Mitral Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow
MR PGmax	Mitral Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow
MR PGmean	Mitral Valve	(20256-4, LN, Mean Gradient")	Flow Direction = Regurgitant Flow
MR VTI	Mitral Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Regurgitant Flow
NAD -1 /-14	Mitral Valve	(18035-6, LN, "Mitral Regurgitation dP/dt	
MR dp/dt	Mittal valve	derived from Mitral Regurgitation velocity")	
		(C. 020E. CDT.   Condinue and an Orifica	Image Mode = 2D mode
MR PISA Rad.	Mitral Valve	(G-038F, SRT, "Cardiovascular Orifice	Measurement Method = Proximal
		Diameter")	Isovelocity Surface Area
MR Flow Rate	Mitral Valve	(34141-2, LN, "Peak Instantaneous Flow	
IVIR FIOW Rate	Williai vaive	Rate")	
MR ERO	Mitral Valve	(C 029E SPT "Cardiovacquer Orifice Arco")	Measurement Method = Proximal
WK EKO	Williai Vaive	(G-038E, SRT, "Cardiovascular Orifice Area")	Isovelocity Surface Area
MR Volume	Mitral Valve	(22079 0 I N "Volume Flous")	Measurement Method = Proximal
WR Volume	Williai vaive	(33878-0, LN, "Volume Flow")	Isovelocity Surface Area
MR Fraction	Mitral Valve	(G-0390, SRT, "Regurgitant Fraction")	
TV Ann Diam	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Imaga Mada 2D mada
i v Ann Diam		Diameter")	Image Mode = 2D mode
TV Diam1	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Imaga Mada — 2D mada
TV Diaiiii	Tricuspia vaive	Diameter")	Image Mode = 2D mode
TV Diam2	Tricuspid Valve	(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
TV Diamiz	Tricuspia vaive	Diameter")	mage wode = 2D mode
			Image Mode = 2D mode
TVA Planimetry	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	
			Measurement Method = Planimetry
TV Area	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Image Mode = 2D mode
T\/\(\\/\T\\	Tricuspid Valve	(C 039E SPT "Cardiovascular Orifice Area")	Measurement Method = Continuity
TVA(VTI)	Tricuspia vaive	(G-038E, SRT, "Cardiovascular Orifice Area")	Equation by Velocity Time Integral
TV Vmax	Tricuspid Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow
TV Peak E	Tricuspid Valve	(18031-5, LN, "Tricuspid Valve E Wave Peak	Flow Direction = Antegrade Flow
IV FEAK E	mouspiu vaive	Velocity")	Thow Direction = Antegrade Flow
TV Peak A	Triguanid Valva	(18030-7, LN, "Tricuspid Valve A Wave Peak	Flow Direction - Antegrade Flow
IV FEAK A	Tricuspid Valve	Velocity")	Flow Direction = Antegrade Flow
TV E/A	Tricuspid Valve	(18039-8, LN, "Tricuspid Valve E to A Ratio")	Flow Direction = Antegrade Flow

TV Vmean	Tricuspid Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow
TV PGmax	Tricuspid Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Antegrade Flow
TV PGmean	Tricuspid Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow
TV PHT	Tricuspid Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow
TV VTI	Tricuspid Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow
TV AccT	Tricuspid Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow
TV DecT	Tricuspid Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow
TV Dec	Tricuspid Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow
TV SV	Tricuspid Valve	(F-32120, SRT, "Stroke Volume")	
TV CO	Tricuspid Valve	(F-32100, SRT, "Cardiac Output")	
O to TV On an	Triange id Malage	(20296-0, LN, "Time from Q wave to	
Q to TV Open	Tricuspid Valve	Tricuspid Valve Opens")	
TR Vmax	Tricuspid Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow
TR PGmax	Tricuspid Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow
TR Vmean	Tricuspid Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow
TR PGmean	Tricuspid Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Regurgitant Flow
TR VTI	Tricuspid Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Regurgitant Flow
RV Systolic	Triange id Malue	(G-0380, SRT, "Right Ventricular Peak	
Pressure	Tricuspid Valve	Systolic Pressure")	
TD dp/dt	Triguanid Valva	(18034-9, LN, "Tricuspid Regurgitation	
TR dp/dt	Tricuspid Valve	dP/dt")	
		(G-038F, SRT, "Cardiovascular Orifice	Image Mode = 2D mode
TR PISA Rad.	Tricuspid Valve	Diameter")	Measurement Method = Proximal
		Diameter )	Isovelocity Surface Area
TR Flow Rate	Tricuspid Valve	(34141-2, LN, "Peak Instantaneous Flow	
TRTIOW Rate	Tricuspia vaive	Rate")	
TR ERO	Tricuspid Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Proximal
TK EKO	Tricuspia vaive	(G-030E, SIXI, Cardiovascular Offfice Area )	Isovelocity Surface Area
TR Volume	Tricuspid Valve	(33878-0, LN, "Volume Flow")	Measurement Method = Proximal
TIC Volume	Tricuspia vaive	(55076-6, EIV, Volume Flow)	Isovelocity Surface Area
TR Fraction	Tricuspid Valve	(G-0390, SRT, "Regurgitant Fraction")	
PV Ann Diam	Pulmonic Valve	(G-038F, SRT, "Cardiovascular Orifice	
i v / till Dialif	I dimonio vaive	Diameter")	
PV Area	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	
PVA Planimetry	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Planimetry

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PV Vmax	Pulmonic Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Antegrade Flow
PV Vmean	Pulmonic Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Antegrade Flow
PV Pgmax	Pulmonic Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Antegrade Flow
PV Pgmean	Pulmonic Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Antegrade Flow
PV PHT	Pulmonic Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Antegrade Flow
PV VTI	Pulmonic Valve	(20354-7, LN, "Velocity Time Integral")	Flow Direction = Antegrade Flow
D) (A () /T )	Pulmonic Valve	(G-038E, SRT, "Cardiovascular Orifice Area")	Measurement Method = Continuity
PVA(VTI)	Pulmonic valve	(G-030E, SK1, Cardiovascular Office Area )	Equation by Velocity Time Integral
PV AccT	Pulmonic Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Antegrade Flow
PV DecT	Pulmonic Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Antegrade Flow
PV Dec	Pulmonic Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Antegrade Flow
DV ET	Dulmonio Volvo	(18042-2, LN, "Pulmonic Valve Ejection	
PV ET	Pulmonic Valve	Time")	
D) / A = =T/ET	Dulmania Value	(G-0388, SRT, "Ratio of Pulmonic Valve	
PV AccT/ET	Pulmonic Valve	Acceleration Time to Ejection Time")	
O to DV Class	Pulmonic Valve	(20295-2, LN, "Time from Q wave to	
Q to PV Close		Pulmonic Valve Closes")	
PR VC Diam	Pulmonic Valve		Image Mode = 2D mode
PR VC Diam			Flow Direction = Regurgitant Flow
PR Vmax	Pulmonic Valve	(11726-7, LN, "Peak Velocity")	Flow Direction = Regurgitant Flow
MADA Masaw	Dulmania Valva	(G-038A, SRT, "Main Pulmonary Artery	
MPA Vmax	Pulmonic Valve	Velocity")	
PR Vmean	Pulmonic Valve	(20352-1, LN, "Mean Velocity")	Flow Direction = Regurgitant Flow
PR Pgmax	Pulmonic Valve	(20247-3, LN, "Peak Gradient")	Flow Direction = Regurgitant Flow
PR Pgmean	Pulmonic Valve	(20256-4, LN, "Mean Gradient")	Flow Direction = Regurgitant Flow
PV PHT	Pulmonic Valve	(20280-4, LN, "Pressure Half-Time")	Flow Direction = Regurgitant Flow
PR AccT	Pulmonic Valve	(20168-1, LN, "Acceleration Time")	Flow Direction = Regurgitant Flow
PR DecT	Pulmonic Valve	(20217-6, LN, "Deceleration Time")	Flow Direction = Regurgitant Flow
PR Dec	Pulmonic Valve	(20216-8, LN, "Deceleration Slope"	Flow Direction = Regurgitant Flow
T-: 1	1-60/	(G-037F, SRT, "Left Ventricular Index of	
Tei Index	Left Ventricle	Myocardial Performance")	
MAY IVET	1.44.1/	(18071-1, LN, "Left Ventricular Isovolumic	
MV IVRT	Left Ventricle	Relaxation Time")	
10/0-T	1.60/	(G-037E, SRT, "Left Ventricular Isovolumic	
MV IVCT	Left Ventricle	Contraction Time")	
	<u>I</u>		

Sys Vel.	Pulmonary Venous Structure	(29450-4, LN, "Pulmonary Vein Systolic Peak Velocity")	
Dias Vel.	Pulmonary Venous Structure	(29451-2, LN, "Pulmonary Vein Diastolic Peak Velocity")	
Sys/Dias	Pulmonary Venous Structure	(29452-0, LN, "Pulmonary Vein Systolic to Diastolic Ratio")	
A. Rev Vel.	Pulmonary Venous Structure	(29453-8, LN, "Pulmonary Vein Atrial Contraction Reversal Peak Velocity")	
A. Rev Dur.	Pulmonary Venous Structure	(G-038B, SRT, "Pulmonary Vein A-Wave Duration")	
Sys Vel.	Hepatic Vein	(29471-0, LN, "Hepatic Vein Systolic Peak Velocity")	
Dias Vel.	Hepatic Vein	(29472-8, LN, "Hepatic Vein Diastolic Peak Velocity")	
Sys/Dias	Hepatic Vein	(29473-6, LN, "Hepatic Vein Systolic to Diastolic Ratio")	
A. Rev Vel.	Hepatic Vein	(29474-4, LN, "Hepatic Vein Atrial Contraction Reversal Peak Velocity")	
Peak E'	Left Ventricle	(G-037A, SRT, "Left Ventricular Peak Early Diastolic Tissue Velocity")	
MV E/E'	Left Ventricle	(G-037B, SRT, "Ratio of MV Peak Velocity to LV Peak Tissue Velocity E-Wave")	
Peak A'	Left Ventricle	(G-037C, SRT, "LV Peak Diastolic Tissue Velocity During Atrial Systole")	
Peak S	Left Ventricle	(G-037D, SRT, "Left Ventricular Peak Systolic Tissue Velocity")	
LVOT Diam(S)	Left Ventricular Outflow Tract	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Image Mode = 2D mode
RVOT Diam(P)	Left Ventricular Outflow Tract	(G-038F, SRT, "Cardiovascular Orifice Diameter")	Image Mode = 2D mode
Sys. VTI(S)	Left Ventricular	(20354-7, LN, "Velocity Time Integral")	

	Outflow Tract		
Dulm \/TI/D\	Left Ventricular	(20254.7. I.N. "\/ologity.Time_Integral")	
Pulm. VTI(P)	Outflow Tract	(20354-7, LN, "Velocity Time Integral")	
Sys. SV(S)	Left Ventricular	(E 22120 SDT "Strake Volume")	
3ys. 3v(3)	Outflow Tract	(F-32120, SRT, "Stroke Volume")	
Svo. SI(S)	Left Ventricular	(E 00079, SDT "Strake Index")	
Sys. SI(S)	Outflow Tract	(F-00078, SRT, "Stroke Index")	
Sys. CO(S)	Left Ventricular	/E 22100 SPT "Cording Output")	
Sys. CO(3)	Outflow Tract	(F-32100, SRT, "Cardiac Output")	
Pulm. SV(P)	Left Ventricular	(F-32120, SRT, "Stroke Volume")	
Fullii. SV(F)	Outflow Tract	(F-52120, SK1, Shoke volume)	
Pulm. SI(P)	Left Ventricular	(E 00079, SDT "Strake Index")	
Pulli. Si(F)	Outflow Tract	(F-00078, SRT, "Stroke Index")	
Pulm. CO(P)	Left Ventricular	(F-32100, SRT, "Cardiac Output")	
Fuiii. CO(F)	Outflow Tract	(F-52100, SKT, Cardiac Output)	

# 9.4 UROLOGY STRUCTURED REPORT TEMPLATE

# 9.4.1 Urology Ultrasound Report Templates (TID SM99400)

Table 9.4-1
Urology Ultrasound Report Procedure Templates

	Rel With			idie lempiates	RS85						
No	Parent	VT	Concept Name	Comments	Label						
1		CONTAINER	EV (99400, MDSN, "Urology								
		CONTAINER	Ultrasound Report")								
2	HAS OBS	INCLUDE	DTID (1001) Observation Context								
_	CONTEXT	III OLOBE	BTID (1001) Observation Context								
3	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics								
4	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-0,	WG Prostate						
	0011711110	INOLODE	DTID (0010) EVVII Volume Group	MDSN, "WG Prostate Volume")	Vol.						
5	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-1,	T-Zone Vol.						
	S CONTAINS INCLUDE	And indeade bill (3010) Evvii volume Gloup	MDSN, " T-Zone Volume")	1 Zone voi.							
6	CONTAINS INCLUDE		CONTAINS	CONTAINS	CONTAINS	CONTAINS	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-2,	Bladder Vol.
	S CONTAINS INCLUDE	INOLOBE	2002 Dina (corre) Evil Volume Group	MDSN, " Bladder Volume")							
7	CONTAINS	INCLUDE	DTID (SM99401) Residual Volume	\$GroupName = EV (99017-3,	Residual Vol.						
			Group	MDSN, " Residual Volume")	rtooladar von						
8	CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-6,	Rt. Renal Vol.						
			2 1.2 (60 16) Eivit Volume Group	MDSN, " Right Renal Volume")	Tall Hondi Voli						
9	CONTAINS	INS INCLUDE	AINS INCLUDE	DTID (5016) LWH Volume Group	\$GroupName = EV (99017-7,	Lt. Renal Vol.					
	00111711110	III OLOBE	BTIB (6016) EWIT Volume Group	MDSN, " Left Renal Volume")	Et. Ptoriai voi.						
			DTID (SM99402) PSA Measurement	\$GroupName = EV (99017-9,							
10	CONTAINS	INCLUDE	Group	MDSN, "Prostate Specific	PSA						
			Стоир	Antigen")							
			DTID (5104) Vascular Measurement	\$AnatomyGroup = EV (99017-							
11	11 CONTAINS	INCLUDE	Group	8,MDSN, "General Urology	General						
				Measurement"							
12	CONTAINS	INCLUDE	DTID (SM99410) Urology User	Ref. Section 9.4.1.7							
	55111711110		Creation Group Section								

# 9.4.1.1 Observation Context (TID 1001)

Table 9.4-2
OBSERVATION CONTEXT IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
D-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM,	
D-1	TIAS OBS CONTEXT	CODE	Type")	"Person")	
D-2	D-2 HAS OBS CONTEXT	PNAME	(121008, DCM, "Person		Ref. Physician
D-2	TIAS OBS CONTEXT	FINAIVIE	Observer Name")		Nei. Filysician
D-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
D-4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		Last Name,
D-4	TIAS OBS CONTEXT	TINAIVIL	(121029,DOW, Subject Name)		First Name
D-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate
D-5	TIAO OBO CONTEXT	DATE	Date")		Birtirbate
				(M, DCM, "Male")	Gender
D-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")	
				(U, DCM, "Unknown sex")	

#### 9.4.1.2 Patient Characteristics (TID 5001)

Table 9.4-3
PATIENT CHARACTERISTICS IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	
D 7	D 7 CONTAING	ONITAINIO OONITAINITED	(121118,DCM "Patient			
D-7   CONTAINS	CONTAINTER	Characteristics")				
D-7-1	D 7.4 CONTAINS	ONTAINS NUM (8302-2, LN, "Patient Height")	NITAINS NIIM (9202 2 I N "Deticat Height")	(cm, UCUM, "centimeter")	Height	
D-7-1 CONTAINS	NIAINS NOW		(mm, UCUM, "millimeter")	rieigiit		
D-7-2	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight	

# 9.4.1.3 LHW Volume Group (TID 5016)

# Table 9.4-4 LHW VOLUME GROUP IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
D-8		CONTAINER	\$GroupName		
D-8-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.
				\$Measurement = \$Length	
D-8-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	L
				Measurement Type	
				\$Measurement = \$Width	
D-8-3	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	W
				Measurement Type	
				\$Measurement = \$Height	
D-8-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	Н
				Measurement Type	

# 9.4.1.4 Residual Volume Group (TID SM99401)

Table 9.4-5
Residual Volume Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
D-9		CONTAINER	\$GroupName		
D 0.4	CONTAINC	INCLUDE	DTID (FO4C) I WILLY always Crown	\$GroupName = EV (99017-4,	Des
D-9-1	D-9-1 CONTAINS	INCLUDE	DTID (5016) LWH Volume Group	MDSN, "Pre Void Volume")	Pre
D 0 2	CONTAINE	NTAINS INCLUDE	INCLUDE DTID (5016) LWH Volume Group	\$GroupName = EV (99017-5,	Doot
D-9-2	D-9-2   CONTAINS			MDSN, "Post Void Volume")	Post
D 0 0	CONTAINC		NIGUES STIP (FOAD) INVITATION OF	\$GroupName = EV (99017-12,	Void
D-9-3   CONTAINS	INS INCLUDE	DTID (5016) LWH Volume Group	MDSN, "Void Volume")	Volu	

# 9.4.1.5 PSA Measurement Group (TID SM99402)

Table 9.4-6
PSA Measurement Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
D-10		CONTAINER	\$GroupName		

D-10-1	CONTAINS	NUM	(99017-10, MDSN, "Predicted PSA by WG")	PREDPSA
D-10-2	CONTAINS	NUM	(99017-11, MDSN, "Predicted PSA by T-Zone")	TZPSA

# 9.4.1.6 Vascular Measurement Group (TID 5104)

Table 9.4-7
Vascular Measurement Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
D-11		CONTAINER	\$AnatomyGroup	\$AnatomyGroup=MDSN\99017- 8\General Urology Measurement	General
D-11-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = DCID (12119) Vascular Ultrasound Property  \$Method = DCID(90001) Ultrasound Measurement Methods  \$Derivation = DCID (3627) Measurement Type	

# 9.4.1.7 Urology User Creation Group Section (TID SM99410)

Table 9.4-8
User Creation Group in UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
D-12	CONTAINS	CONTAINER	(99900-Creation ID, MDSN, "User Creation Group Name")			*Creation ID: Randomly generated 7-digit unique ID
D-12-1	CONTAINS	NUM	(99900-Creation ID, MDSN, "User Creation Item Name")			
D-12-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

# 9.4.2 Urology Measurement and Calculation used in Urology SR

Table 9.4-9
Urology Measurement and Calculation Items

RS85 Label	DICOM SR Concept Name (CSD\CV\CM)
WG Prostate L	SRT\G-A22A\Length
WG Prostate H	DCM\121207\Height
WG Prostate W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
T-Zone L	SRT\G-A22A\Length
T-Zone H	DCM\121207\Height
T-Zone W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Bladder L	SRT\G-A22A\Length
Bladder H	DCM\121207\Height
Bladder W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Pre L	SRT\G-A22A\Length

Pre H	DCM\121207\Height
Pre W	SRT\G-A220\Width
Pre Vol.	SRT\G-D705\Volume
Post L	SRT\G-A22A\Length
Post H	DCM\121207\Height
Post W	SRT\G-A220\Width
Post Vol.	SRT\G-D705\Volume
Void Vol.	SRT\G-D705\Volume
Rt. Renal L	SRT\G-A22A\Length
Rt. Renal H	DCM\121207\Height
Rt. Renal W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Rt. Renal Pelvis	MDSN\99005-13\Right Pelvis
Lt. Renal L	SRT\G-A22A\Length
Lt. Renal H	DCM\121207\Height
Lt. Renal W	SRT\G-A220\Width
Vol.	SRT\G-D705\Volume
Lt. Renal Pelvis	MDSN\99005-14\Left Pelvis
PSA	MDSN\99017-9\Prostate Specific Antigen
PREDPSA	MDSN\99017-10\Predicted PSA by WG
TZPSA	MDSN\99017-11\Predicted PSA by T-Zone
General	MDSN\99017-8\General Urology Measurement
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area

%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

#### 9.5 SMALL PARTS STRUCTURED REPORT TEMPLATE

#### 9.5.1 SmallParts Ultrasound Report Templates (TID SM99500)

Table 9.5-1
SmallParts Ultrasound Report Procedure Templates

No	Rel With Parent	VT	Concept Name	Comments	RS85 Label
4		CONTAINED	EV (SM99500, MDSN, "SmallParts		
1		CONTAINER	Ultrasound Report")		
2	HAS OBS	INCLUDE	DTID (4004) Observation Contact		
2	CONTEXT	INCLUDE	DTID (1001) Observation Context		
3	CONTAINS	INCLUDE	DTID (5001) Patient Characteristics		
4	CONTAINS	NTAINS INCLUDE	DTID (SM99501) Small Parts Measurement		
4	CONTAINS		Group		
8	CONTAINS	INCLLIDE	DTID (SM99501) Small Parts Measurement		
0	8 CONTAINS	AINS   INCLUDE	Group		
9	CONTAINS	INCLUDE	DTID (SM99501) Small Parts Measurement		
Э	CONTAINS	NTAINS INCLUDE	Group		

# 9.5.1.1 Observation Context (TID 1001)

Table 9.5-2
OBSERVATION CONTEXT IN UROLOGY SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
E-1	HAS OBS CONTEXT	CODE	(121005, DCM, "Observer	(121006, DCM, "Person")	
<u></u>	E-1 HAS OBS CONTEXT	CODE	Type")	(121000, DCIVI, FEISOII)	
E-2	HAS OBS CONTEXT	PNAME	(121008, DCM, "Person		Ref. Physician
L-Z	E-2 TIAS OBS CONTEXT	I INAIVIL	Observer Name")		Troi. i flysiolali
E-3	HAS OBS CONTEXT	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")	
E-4	HAS OBS CONTEXT	PNAME	(121029,DCM, "Subject Name")		Last Name,
C-4	TIAS OBS CONTEXT	FINAIVIE	(121029,DCIVI, Subject Name)		First Name
E-5	HAS OBS CONTEXT	DATE	(121031,DCM, "Subject Birth		BirthDate

			Date")		
				(M, DCM, "Male")	Gender
E-6	HAS OBS CONTEXT	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")	
				(U, DCM, "Unknown sex")	

# 9.5.1.2 Patient Characteristics (TID 5001)

Table 9.5-3
PATIENT CHARACTERISTICS IN SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
F 7 CONTAINS	0.0017411755	(121118,DCM "Patient			
E-7	E-7   CONTAINS   CONTAINTER	Characteristics")			
E-7-1 CONTAINS NUM	CONTAINS NUM (8302-2, LN, "Patient Height")	NUM (9303 3 LN "Detient Height")	(cm, UCUM, "centimeter")	Hoight	
		(0302-2, LIN, Fallent Height )	(mm, UCUM, "millimeter")	Height	
E-7-2	CONTAINS	NUM	(29463-7, LN, "Patient Weight")	(kg, UCUM, "kilograms")	Weight

# 9.5.1.3 Small Parts Measruement Group (TID SM99501)

Table 9.5-4
Small Parts Measruement Group in SMALL PARTS SR

oman ratio incapraciment croup in conact ratio on					
REL	REL VT	Concept Name	Unit / CODE Value	RS85	
				Label	
	CONTAINER	(121070, DCM, "Findings")			
HAS			(T-B6000, SRT, "Thyroid")		
CONCEPT	CODE	(G-C0E3, SRT, "Finding Site")	(T-94000, SRT, "Testis")		
MOD			(G-A139, SRT, "Superficial")		
HAS			(G-A100, SRT, "Right")		
CONCEPT	CODE	(G-C171, SRT, "Laterality")	(G-A101, SRT, "Left")		
MOD			(G-A103, SRT, "Unilateral")		
CONTAINS	INCLLIDE	DTID (SM99102) Mass		Mass	
CONTAINS	INCLUDE	Measurement Group		iviass	
CONTAINS	INCLLIDE	DTID (5016) I WH Volume Group	\$GroupName = EV (99100-6,	Vol.	
CONTAINS	INCLUDE	TOTIO (3010) EVVIT VOIGITIE GIOUP	MDSN, "Thyroid Volume")	VOI.	
	HAS CONCEPT MOD HAS CONCEPT	CONTAINER  HAS CONCEPT CODE  MOD  HAS CONCEPT CODE  MOD  CONTAINS INCLUDE	CONTAINER (121070, DCM, "Findings")  HAS CONCEPT CODE (G-C0E3, SRT, "Finding Site")  HAS CONCEPT CODE (G-C171, SRT, "Laterality")  MOD  CONTAINS INCLUDE DTID (SM99102) Mass Measurement Group	CONTAINER   CONTAINER   CONTAINER   CONCEPT   CODE   (G-C0E3, SRT, "Finding Site")   (T-B6000, SRT, "Thyroid")   (T-94000, SRT, "Testis")   (G-A139, SRT, "Superficial")   (G-A139, SRT, "Superficial")   (G-A139, SRT, "Superficial")   (G-A100, SRT, "Right")   (G-A101, SRT, "Left")   (G-A101, SRT, "Left")   (G-A103, SRT, "Unilateral")   (G-A103, SRT, "Unilateral")	

				\$GroupName = EV (99100-15, MDSN, "Lobe")  \$GroupName = EV (99100-9, MDSN, "Testis Volume")  \$GroupName = EV (99100-11, MDSN, "Superficial Volume")	
E-8-5	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	\$AnatomyGroup = EV (99100-7, MDSN, "Thyroid Flow") \$AnatomyGroup = EV(99100-10, MDSN, "Testis Flow") \$AnatomyGroup = EV (99100- 12, MDSN, "Superficial Flow")	Flow
E-8-6	CONTAINS	CONTAINER	(99100-16, MDSN, "Isthmus")		Isthmus
E-8-6- 1	CONTAINS	NUM	(99100-16, MDSN, "Isthmus")		
E-8-7	CONTAINS	INCLUDE	DTID (SM99510) Small Parts User Creation Group Section	Ref. Section 9.5.1.7	

# 9.5.1.4 Mass Measruement Group (TID SM99102)

Table 9.5-5
Mass Measruement Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS85	
			-		Label	
E-8-2	CONTAINS	CONTAINTER	(M-03000, SRT, "Mass")			
E 0.24	HAS OBS	TEVT	(40540 DOM "Idontifica")		"1", "2"	
E-8-2-1	CONTEXT	TEXT	(12510, DCM, "Identifier")		"5"	
E-8-2-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.	
		ONTAINS INCLUDE	DTID (300) Measurement	\$Measurement = \$Length		
E-8-2-3	CONTAINS			\$Derivation = DCID (3627)	L	
				Measurement Type		
				\$Measurement = \$Depth		
E-8-2-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Derivation = DCID (3627)	D	
				Measurement Type		

					\$Measurement =\$Width	
E-8-2-5	CONTAINS	INCLUDE	DTID (300)	Measurement	\$Derivation = DCID (3627)	W
					Measurement Type	

# 9.5.1.5 LHW Volume Group (TID 5016)

Table 9.5-6
LHW VOLUME GROUP IN SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
E-8-3		CONTAINER	\$GroupName		
E-8-3-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Volume	Vol.
E-8-3-2	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Length	L
				\$Derivation = DCID (3627)	
				Measurement Type	
E-8-3-3	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Width	w
				\$Derivation = DCID (3627)	
				Measurement Type	
E-8-3-4	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = \$Height	н
				\$Derivation = DCID (3627)	
				Measurement Type	

# 9.5.1.6 Vascular Measurement Group (TID 5104)

Table 9.5-7
Vascular Measurement Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
E-8-4		CONTAINER	\$AnatomyGroup		Flow
E-8-4-1	CONTAINS	INCLUDE	DTID (300) Measurement	\$Measurement = DCID (12119)	
				Vascular Ultrasound Property	
				\$Method = DCID(90001) Ultrasound	
				Measurement Methods	
				\$Derivation = DCID (3627)	
				Measurement Type	

# 9.5.1.7 Small Parts User Creation Group Section (TID SM99510)

Table 9.5-8
User Creation Group in SMALL PARTS SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
E-8-7	CONTAINS	CONTAINER	(99900-Creation ID, MDSN, "User Creation Group Name")			*Creation ID:  Randomly  generated 7-digit  unique ID
E-8-7-1	CONTAINS	NUM	(99900-Creation ID, MDSN, "User Creation Item Name")			
E-8-7-1-1	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

# 9.5.2 Small Parts Measurement and Calculation used in Small Parts SR

# 9.5.2.1 Thyroid Measurement and Calculation used in Small Parts SR

Table 9.5-9
Thyroid Measurement and Calculation Items

RS85 Label	DICOM SR Concept Name (CDS CV CM)
Thyroid	SRT\T-B6000\Thyroid
Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth
Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass

Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume
Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth
Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Thyroid Vol.	MDSN\99100-6\Thyroid Volume
Thyroid L	SRT\G-A22A\Length
Thyroid H	DCM\121207\Height
Thyroid W	SRT\G-A220\Width
Thyroid Flow	MDSN\99100-7\Thyroid Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter

Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

### 9.5.2.2 Testis Measurement and Calculation used in Small Parts SR

Table 9.5-9
Testis Measurement and Calculation Items

RS85 Label	DICOM SR Concept Name (CDS CV CM)
Testis	SRT\T-94000\Testis
Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth
Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass
Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume
Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth

Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Testis Vol.	MDSN\99100-9\Testis Volume
Testis L	SRT\G-A22A\Length
Testis H	DCM\121207\Height
Testis W	SRT\G-A220\Width
Testis Flow	MDSN\99100-10\Testis Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient
PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

# 9.5.2.3 Superficial Measurement and Calculation used in Small Parts SR

Table 9.5-10
Superficial Measurement and Calculation Items

RS85 Label	DICOM SR Concept Name (CDS CV CM)
Superficial	SRT\G-A139\Superficial

Mass1	SRT\M-03000\Mass
Mass1 L	SRT\G-A22A\Length
Mass1 D	DCM\G-D785\Depth
Mass1 W	SRT\G-A220\Width
Mass1 Vol.	SRT\G-D705\Volume
Mass2	SRT\M-03000\Mass
Mass2 L	SRT\G-A22A\Length
Mass2 D	DCM\G-D785\Depth
Mass2 W	SRT\G-A220\Width
Mass2 Vol.	SRT\G-D705\Volume
Mass3	SRT\M-03000\Mass
Mass3 L	SRT\G-A22A\Length
Mass3 D	DCM\G-D785\Depth
Mass3 W	SRT\G-A220\Width
Mass3 Vol.	SRT\G-D705\Volume
Mass4	SRT\M-03000\Mass
Mass4 L	SRT\G-A22A\Length
Mass4 D	DCM\G-D785\Depth
Mass4 W	SRT\G-A220\Width
Mass4 Vol.	SRT\G-D705\Volume
Mass5	SRT\M-03000\Mass
Mass5 L	SRT\G-A22A\Length
Mass5 D	DCM\G-D785\Depth
Mass5 W	SRT\G-A220\Width
Mass5 Vol.	SRT\G-D705\Volume
Superficial Vol.	MDSN\99100-11\Superficial Volume
Superficial L	SRT\G-A22A\Length
Superficial H	DCM\121207\Height
Superficial W	SRT\G-A220\Width
Superficial Flow	MDSN\99100-12\Superficial Flow
PSV	LN\11726-7\Peak Systolic Velocity
EDV	LN\11653-3\End Diastolic Velocity
TAPV	LN\11692-1\Time averaged peak velocity
TAMV	LN\20352-1\Time averaged mean velocity
PGmax	LN\20247-3\Peak Gradient

PGmean	LN\20256-4\Mean Gradient
S/D	LN\12144-2\Systolic to Diastolic Velocity Ratio
D/S	MDSN\99200-01\Diastolic to Systolic Velocity Ratio
RI	LN\12023-8\Resistivity Index
PI	LN\12008-9\Pulsatility Index
%StA	SRT\R-101BA\Lumen Area Stenosis
%StA Outer Area	SRT\G-0366\Vessel lumen cross-sectional area
%StA Inner Area	SRT\R-1025D\Vessel Intimal Cross-Sectional Area
%StD	SRT\R-101BB\Lumen Diameter Stenosis
%StD Outer Dist.	SRT\G-0364\Vessel lumen diameter
%StD Inner Dist.	SRT\R-1025C\Vessel Intimal Diameter
Vesl. Area	MDSN\99200-02\Vessel Area
Vol. Flow(A)	SRT\G-0365\Vessel outside diameter
Vesl. Dist	LN\33878-0\Volume flow
Vol. Flow(D)	LN\33878-0\Volume flow

### 9.6 BREAST IMAGING STRUCTURED REPORT TEMPLATE

### 9.6.1 Breast Imaging Report (TID 4200)

Table 9.6-1
Breast Imaging Report

No	Rel With Parent	VT	Concept Name	Comments	RS85 Label
1		CONTAINER	(111400, DCM, "Breast Imaging Report")		
2 HAS CONCEPT MOD	INCLUDE	DTID (1204) Language of Content Item and			
	MOD	INCLUDE	Descendants		
3	CONTAINS	INCLUDE	DTID (4202) Breast Imaging Report Narrative		
4	CONTAINS	INCLUDE	DTID (4208) Breast Imaging Report Supplementary		
4	CONTAINS	INCLUDE	Data		

# 9.6.1.1 Language of Content Item and Descendants (TID 1204)

Table 9.6-2
Breast Imaging Procedure Reported

No	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
F-1	HAS CONCEPT MOD	CODE	(121049,DCM,"Language of Content Item and Descendants")	(en, RFC3066, "English")	

### 9.6.1.2 Breast Imaging Report Narrative (TID 4202)

Table 9.6-3
Breast Imaging Report Report Narrative

DEI	VT Concept Name	Unit / CODE Value	RS85	
REL	V I	Concept Name	Unit / CODE Value	Label

F-2	CONTAINS	CONTAINER	(111412, DCM, "Narrative Summary")		
F-2-1	CONTAINS	CONTAINER	(121058, DCM, "Procedure reported")		
F-2-1-1	HAS OBS CONTEXT	INCLUDE	DTID (1002) Observer Context		
F-2-1-7	CONTAINS	TEXT	(121058, DCM, "Procedure reported")	"Ultrasonography of breast"	

# 9.6.1.3 Observer Context (TID 1002)

Table 9.6-4
OBSERVER CONTEXT IN BREAST SR

	OBSERVER CONTEXT IN BREAST SR							
	REL	VT	Concept Name	Unit / CODE Value	RS85			
	KEE	• •	Concept Name	Olity GODE Value	Label			
F-2-1-1	HAS OBS	CODE	(121005 DCM "Observer Type")	(121006 DCM "Bornon")				
F-Z-1-1	CONTEXT	CODE	(121005, DCM, "Observer Type")	(121006, DCM, "Person")				
F 2 4 2	HAS OBS	DNAME	(121008, DCM, "Person Observer		Ref.			
F-2-1-2	CONTEXT	PNAME	Name")		Physician			
F 0 4 0	HAS OBS	0005	(404004 DOM #0)-b	(404005 DOM !!D-#:- :-#")				
F-2-1-3	-2-1-3 CODE CODE	CODE	(121024, DCM, "Subject Class")	(121025 ,DCM,"Patient")				
F 0 4 4	HAS OBS	DNIANE	(404000 DOM "Outing 4 Nove 2")		LastName,			
F-2-1-4	CONTEXT	PNAME	(121029,DCM, "Subject Name")		FirstName			
F 0.4 F	HAS OBS	DATE	(404004 DOM "Outing Pints Data")		Disth Data			
F-2-1-5	CONTEXT	DATE	(121031,DCM, "Subject Birth Date")		BirthDate			
	LIAC ODC			(M, DCM, "Male")	Gender			
F-2-1-6	HAS OBS	CODE	(121032,DCM, "Subject Sex")	(F, DCM, "Female")				
	CONTEXT			(U, DCM, "Unknown sex")				

# 9.6.1.4 Breast Imaging Report Supplementary Data (TID 4208)

Table 9.6-5
Breast Imaging Report Supplementary Data

	REL	VT	Concept Name	Unit / CODE	RS85
--	-----	----	--------------	-------------	------

				Value	Label
F-3	CONTAINS	CONTAINER	(111414, DCM, "Supplementary Data")		
F-3-1	CONTAINS	INCLUDE	DTID (4206) Breast Imaging Report Finding		
1 -0-1	CONTAINO	INOLODE	Section		

# 9.6.1.5 Breast Imaging Report Finding Section (TID 4206)

Table 9.6-6
Breast Imaging Report Finding Section

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comm	nents
F-3-1	CONTAINS	CONTAINER	(121070, DCM, "Findings")				
F-3-1-1	CONTAINS	INCLUDE	DTID (4201) Breast Imaging Procedure Reported				
F-3-1-2	CONTAINS	CODE	(121071, DCM, "Finding")	(111099, DCM, "Selected region") (M-03000,	Seed Point, Seed Ellipse		
F-3-1-2-1	HAS OBS CONTEXT	TEXT	(125010, DCM, "Identifier")	SRT, "Mass")	Mass '1','2','3',,,		
F-3-1-2-2	HAS PROPERTIES	INCLUDE	DTID (4203) Breast Imaging Assessment			Ref. 9.6-8	Table
F-3-1-2-3	HAS PROPERTIES	INCLUDE	DTID (1400) Linear Measurement			Ref. 9.6-9	Table
F-3-1-2-4	HAS PROPERTIES	INCLUDE	DTID (1401) Area Measurement			Ref. 9.6-10	Table
F-3-1-2-5	HAS PROPERTIES	INCLUDE	DTID (1402) Volume Measurement		Vol.	Ref. 9.6-11	Table
F-3-1-2-6	HAS PROPERTIES	NUM	(99180-1, MDSN, "Angle")		Angle		

		,	1				
F-3-1-2-7	HAS PROPERTIES	CODE	(M-020F9, SRT, "Shape")	DCID (6004) Mammography Characteristics of Shape	Shape	Ref. 9.6-15	Table
F-3-1-2-8	HAS PROPERTIES	CODE	(111037, DCM, "Margins")	DCID (6006)  Mammography  Characteristics of  Margin	Margin	Ref. 9.6-16	Table
F-3-1-2-9	HAS PROPERTIES	CODE	(111009, DCM, "Calcification Type")	DCID (6010)  Mammography  Calcification  Types	Calcificatio ns	Ref. 9.6-17	Table
F-3-1-2- 10	HAS PROPERTIES	CODE	(G-C189, SRT, "Associated Finding")	DCID (6056) Associated Findings for Breast	Special Case	Ref. 9.6-18	Table
F-3-1-2- 11	HAS PROPERTIES	CODE	(111354, DCM, "Orientation")	DCID (6152) Orientation	Orientation	Ref. 9.6-19	Table
F-3-1-2- 12	HAS PROPERTIES	CODE	(111357, DCM, "Lesion boundary")	DCID (6153) Lesion boundary	Lesion boundar	Ref. 9.6-20	Table
F-3-1-2- 13	HAS PROPERTIES	CODE	(111360, DCM, "Echo pattern")	DCID (6154) Echo pattern	Echo pattern	Ref. 9.6-21	Table
F-3-1-2- 14	HAS PROPERTIES	CODE	(111366, DCM, "Posterior acoustic features")	DCID (6155) Posterior acoustic features	Posterior Feature	Ref. 9.6-22	Table
F-3-1-2- 15	HAS PROPERTIES	CODE	(111371, DCM, "Identifiable effect on surrounding tissues")	DCID (6015) Single Image Finding from BI-RADS®	Surroundin g Tissue	Ref. 9.6-23	Table
F-3-1-2- 16	HAS PROPERTIES	CODE	(111372, DCM, "Vascularity")	DCID (6157) Vascularity	Vascularity	Ref. 9.6-24	Table
F-3-1-3	CONTAINS	INCLUDE	DTID (SM99610) Breast User Creation Group Section			Ref. 9.6-12	Table

# 9.6.1.6 Breast Imaging Procedure Reported (TID 4201)

Table 9.6-7
Breast Imaging Procedure Reported

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label
F-3-1-1	CONTAINS	CODE	(121058, DCM, "Procedure reported")	(P5-B8500, SRT, "Ultrasonography of breast")	
F-3-1-1-	HAS CONCEPT MOD	CODE	(G-C171, SRT, "Laterality")	(T-04030, SRT, "Left breast") (T-04020, SRT, "Right breast")	Lt, Rt

### 9.6.1.7 Breast Imaging Assessment (TID 4203)

Table 9.6-8
Breast Imaging Assessment

	REL	VT	Concept Name	Unit / CODE Value	Comments
F-3-1-2-	HAS OBS	CODE	(111005, DCM, "Assessment	DCID (6027) Mammography	Ref. Table
2	CONTEXT	CODE	Category")	Assessment	9.6-14

### 9.6.1.8 Linear Measurement Template (TID 1400)

Table 9.6-9
Linear Measurement

	REL	VT	Concept Name	Unit / CODE Value	Comments
F-3-1-2-	CONTAINC	NUM	Context ID 7470 Linear	Units = DCID (7460) Units of	Ref. Table
3	CONTAINS	NOW	Measurements	Linear Measurement	9.6-13

### 9.6.1.9 Area Measurement Template (TID 1401)

# Table 9.6-10 Area Measurement

REL	VT	Concept Name	Unit / CODE Value	Comments
		<u> </u>		

F-3-1-2-	CONTAINS	NUM	(G-A166, SRT, "Area")	Units = DCID (7461) Units of Area	
4	CONTAINS	NOW	(G-A100, SK1, Alea)	Measurement	

### 9.6.1.10 Volume Measurement Template (TID 1402)

Table 9.6-11
Volume Measurement

	REL	VT	Concept Name	Unit / CODE Value	Comments
F-3-1-2-	CONTAINS	NUM	(G-D705, SRT, "Volume")	Units = DCID (7462) Units of	
5	CONTAINS	INOIVI	(G-D703, SK1, Volume)	Volume Measurement	

# 9.6.1.11 Breast User Creation Group Section (TID SM99610)

Table 9.6-12
User Creation Group in Breast SR

	REL	VT	Concept Name	Unit / CODE Value	RS85 Label	Comments
F-3-1-3	CONTAINS	CONTAINER	(99900-Creation ID, MDSN, "User Creation Group Name")			*Creation ID: Randomly generated 7-digit unique ID
F-3-1-3-1	CONTAINS	NUM	(99900-Creation ID, MDSN, "User Creation Item Name")			
F-3-1-3-1-	HAS CONCEPT MOD	CODE	(121401, DCM, "Derivation")	Common CID- Derivation		

### 9.6.1.12 Standard Extended Context Groups in Breast SR

Table 9.6-13
Context ID 7470 Linear Measurements

CSD	CV	СМ	RS85 Label
SRT	G-A22A	Length	Length, L

DCM	121206	Distance	Distance
SRT	G-A220	Width	Width, W
SRT	G-D785	Depth	Depth, D
DCM	121207	Height	Height, H

Table 9.6-14
Context ID 6027 Mammography Assessment

CSD	CV	СМ	RS85 Label
ВІ	II.AC.a	0 - Need additional imaging evaluation	Unknown
ВІ	II.AC.b.1	1-Negative	Negative
ВІ	II.AC.b.2	2-Benign Finding	Benign
ВІ	II.AC.b.3	3-Probably Benign Finding-short interval follow-up	Probably benign
			Possibly Benign
ВІ	II.AC.b.4	4-Suspicious abnormality, biopsy should be considered	Possibly Malignant
ВІ	MA.II.A.5.4A	4A-Low suspicion	Low suspicion of Malignancy
ВІ	MA.II.A.5.4B	4B-Intermediate suspicion	Intermediate suspicion of
			malignancy
ВІ	MA.II.A.5.4C	4C-Moderate suspicion	Moderate concern, but not
			classic for malignancy
ВІ	II.AC.b.5	5-Highly suggestive of malignancy, take appropriate	Highly suggestive of
		action	malignancy
ВІ	MA.II.A.5.6	6-Known biopsy proven malignancy	Known biopsy-proven
			malignancy

Table 9.6-15
Context ID 6004 Mammography Characteristics of Shape

		•	
CSD	CV	СМ	RS85 Label
SRT	M-02100	Round shape	Round
SRT	M-02120	Ovoid shape (Oval)	Oval
SRT	G-A402	Irregular	Irregular

Table 9.6-16
Context ID 6006 Mammography Characteristics of Margin

5 : 7			
CSD	CV	СМ	RS85 Label

SRT	F-01741	Circumscribed lesion	Circumscribed
SRT	F-01742	Microlobulated lesion	Microlobulated
SRT	F-01744	Indistinct lesion	Indistinct
SRT	F-01745	Spiculated lesion	Spiculated
DCM	111343	Angular margins	Angular

Table 9.6-17
Context ID 6010 Mammography Calcification Types

CSD	CV	СМ	RS85 Label
SRT	R-41198	Unknown	Unknown
DCM	111345	Macrocalcifications	Macrocalcifications
DCM	111347	Calcifications outside of a mass	Micro. Out Of Mass
DCM	111346	Calcifications within a mass	Macro. In Mass

Table 9.6-18
Context ID 6056 Associated Findings for Breast

CSD	cv	СМ	RS85 Label
SRT	R-41198	Unknown	Unknown
DCM	111129	Clustered microcysts	Clustered Microcysts
DCM	111130	Complicated cyst	Complicated Cysts
SRT	D7-90382	Sebaceous cyst of skin of breast	Mass in or on skin
SRT	M-30400	Foreign body	Foreign Body
SRT	T-C4351	Intra-mammary lymph node	Intrama. Lymph Nodes
SRT	T-C4710	Axillary lymph node	Axillary Lymph Node

Table 9.6-19
Context ID DCID 6152 Orientation

CSD	CV	СМ	RS85 Label
DCM	111355	Parallel	Parallel
DCM	111356	Not parallel	Not parallel

Table 9.6-20 Context ID 6153 Lesion boundary

CSD	CV	СМ	RS85 Label
DCM	111358	Abrupt interface	Abrupt Interface

DCM	111359	Echogenic halo	Echogenic Halo
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Table 9.6-21
Context ID 6154 Echo Pattern

CSD	CV	СМ	RS85 Label
DCM	111361	Anechoic	Anechoic
DCM	111362	Hyperechoic	Hyperechoic
DCM	111363	Complex	Complex Echogenicity
DCM	111364	Hypoechoic	Hypoechoic
DCM	111365	Isoechoic	Isoechoic

Table 9.6-22
Context ID 6155 Posterior acoustic features

CSD	CV	СМ	RS85 Label
DCM	111367	No posterior acoustic features	No Posterior Findings
DCM	111368	Posterior enhancement	Enhancement
DCM	111369	Posterior shadowing	Shadowing
DCM	111370	Combined osterior enhancement and shadowing	Combined Pattern

Table 9.6-23
Context ID 6015 Single Image Finding from BI-RADS®

CSD	CV	СМ	RS85 Label
SRT	R-41198	Unknown	Unknown
MDSN	99018-11	Duct Changes	Duct Changes
DCM	111111	Cooper's ligament changes	Cooper Ligament Chg.
SRT	M-36300	Edema	Edema
SRT	F-01795	Architectural distortion of breast	Architectural Changes
SRT	F-0179A	Skin thickening of breast	Skin Thickening
SRT	F-01799	Skin retraction of breast	Skin Retraction

Table 9.6-24
Context ID 6157 Vascularity

CSD	CV	СМ	RS85 Label
DCM	111373	Vascularity not present	None
DCM	111374	Vascularity not assessed	Unknown

DCM	111375	Vascularity present in lesion	In Lesion
DCM	111376	Vascularity present immediately adjacent to	Adjacent To Lesion
		lesion	
DCM	111377	Diffusely increased vascularity in surrounding	Diffuse Vascularity
		tissue	

### **END OF DOCUMENT**