DICOM CONFORMANCE STATEMENT
FOR
DIAGNOSTIC ULTRASOUND SYSTEM

Xario 200
MODEL TUS-X200 V5.0

Xario 100
MODEL TUS-X100 V5.0
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(2) The contents of this document are subject to change without prior notice and without our legal obligation.

(3) Please refer to the Toshiba Medical Systems Corporation website for the most recent version of this conformance statement.
1. CONFORMANCE STATEMENT OVERVIEW

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

Table 1-1  
NETWORK SERVICES

<table>
<thead>
<tr>
<th>SOP Classes</th>
<th>User of Service (SCU)</th>
<th>Provider of Service (SCP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary Capture Image Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Basic Text SR Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Comprehensive SR Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CT Image Storage</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>MR Image Storage</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Toshiba US Private Data Storage</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Storage Commitment

| Storage Commitment Push Model | Yes | No |

Query/Retrieve

| Study Root Q/R Information Model – Find | Yes | No |
| Study Root Q/R Information Model – Move | Yes | No |

Workflow Management

| Modality Worklist Information Model – Find | Yes | No |
| Modality Performed Procedure Step | Yes | No |

Print Management

| Basic Grayscale Print Management | Yes | No |
| Basic Color Print Management | Yes | No |

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

Table 1-2  
MEDIA SERVICES

<table>
<thead>
<tr>
<th>Media Storage Application Profile</th>
<th>Write Files (FSC or FSU)</th>
<th>Read Files (FSR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact Disk – Recordable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Purpose CD-R</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DVD Plus Recordable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Purpose DVD</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>USB Media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Purpose USB Media</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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<td>261</td>
</tr>
<tr>
<td>8.7.2 Private Template - TID 0360 Radiology Procedure Report</td>
<td>266</td>
</tr>
</tbody>
</table>
3. INTRODUCTION

3.1 REVISION HISTORY

<table>
<thead>
<tr>
<th>Document Version</th>
<th>Date of Issue</th>
<th>Author</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2015</td>
<td>TMSC Initial Version</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*A</td>
<td>July 2016</td>
<td>TMSC</td>
<td>Update OB-GYN Ultrasound Procedure Report SR,etc</td>
</tr>
</tbody>
</table>

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 Toshiba Medical Systems and other vendors’ Medical equipment. The Conformance Statement should be read and understood in conjunction with the DICOM Standard [DICOM]. However, by itself it is not guaranteed to ensure 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 interoperability between Toshiba Medical Systems and non-Toshiba Medical Systems equipment.
- Test procedures should be defined to validate the desired level of connectivity.
- The DICOM standard will evolve to meet the users’ future requirements. Toshiba Medical Systems is actively involved in developing the standard further and therefore reserves the right to make changes to its products or to discontinue its 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:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>Application Entity</td>
</tr>
<tr>
<td>ASCE</td>
<td>Association Control Service Element</td>
</tr>
<tr>
<td>CD-R</td>
<td>Compact Disk Recordable</td>
</tr>
<tr>
<td>CM</td>
<td>Code Meaning (0008,0104)</td>
</tr>
<tr>
<td>CSD</td>
<td>Coding Scheme Designator (0008,0102)</td>
</tr>
<tr>
<td>CV</td>
<td>Code Value (0008,0100)</td>
</tr>
<tr>
<td>DHCP</td>
<td>Dynamic Host Configuration Protocol</td>
</tr>
<tr>
<td>DIMSE</td>
<td>DICOM Message Service Element</td>
</tr>
<tr>
<td>DNS</td>
<td>Domain Name System</td>
</tr>
<tr>
<td>DVD</td>
<td>A trademark of the DVD forum that is not an abbreviation</td>
</tr>
<tr>
<td>DVD+R</td>
<td>DVD Plus Recordable</td>
</tr>
<tr>
<td>FSC</td>
<td>File-Set Creator</td>
</tr>
<tr>
<td>FSR</td>
<td>File-Set Reader</td>
</tr>
<tr>
<td>FSU</td>
<td>File-Set Updater</td>
</tr>
<tr>
<td>IE</td>
<td>Information Entity</td>
</tr>
<tr>
<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers</td>
</tr>
<tr>
<td>IOD</td>
<td>Information Object Definition</td>
</tr>
<tr>
<td>ISO</td>
<td>International Standard Organization</td>
</tr>
<tr>
<td>MPPS</td>
<td>Modality Performed Procedure Step</td>
</tr>
<tr>
<td>MSPS</td>
<td>Modality Scheduled Procedure Step</td>
</tr>
<tr>
<td>MWM</td>
<td>Modality Worklist Management</td>
</tr>
<tr>
<td>NTP</td>
<td>Network Time Protocol</td>
</tr>
<tr>
<td>PDU</td>
<td>Protocol Data Unit</td>
</tr>
<tr>
<td>SCU</td>
<td>Service Class User (DICOM client)</td>
</tr>
<tr>
<td>SCP</td>
<td>Service Class Provider (DICOM server)</td>
</tr>
<tr>
<td>SOP</td>
<td>Service-Object Pair</td>
</tr>
<tr>
<td>UID</td>
<td>Unique Identifier</td>
</tr>
<tr>
<td>USB</td>
<td>Universal Serial Bus</td>
</tr>
<tr>
<td>WPA</td>
<td>Wi-Fi Protected Access</td>
</tr>
</tbody>
</table>

3.5 REFERENCES

4. NETWORKING

4.1 IMPLEMENTATION MODEL

4.1.1 Application Data Flow

![Application Data Flow Diagram]

**Figure 4.1-1**
APPLICATION DATA FLOW DIAGRAM
— The Verification SCU AE issues a C-ECHO to verify a DICOM connection to a remote AE. It is associated with the local real-world activity "Verify Connectivity". "Verify Connectivity" is performed via the Service Tool.

— The Verification SCP AE responds successfully to C-ECHO requests from known AE Titles. It is associated with the local real-world activity "Respond to Verification Request".

— The Storage SCU AE sends instances to a remote AE. It is associated with the local real-world activity "Send Instances". "Send Instances" is performed upon user request for specific instances selected. If the remote AE is configured as a Storage Commitment SCP AE, the Storage SCU AE will send a storage commitment request to the Storage Commitment SCU AE.

— Receiving the storage commitment request from the Storage SCU AE, the Storage Commitment SCU AE will request Storage Commitment and if a commitment is successfully obtained will record this information in the local database.

— The MWM SCU AE receives worklist information from a remote AE. It is associated with the local real-world activity "Update Worklist". When the "Update Worklist" is performed the MWM SCU AE queries a remote AE for worklist items and provides the set of worklist items matching the query request. "Update Worklist" is performed manually or automatically.

— The MPPS SCU AE sends MPPS information to a remote AE. It is associated with the local real-world activity "Acquire Instances". When the "Acquire Instances" is performed the MPPS SCU AE creates and updates Modality Performed Procedure Step instances managed by a remote AE. Acquisition of instances will result in automated creation of an MPPS instance. Completion of the MPPS is performed as the result of an operator action.

— The Q/R SCU AE queries a remote AE for lists of studies and retrieves selected studies. It is associated with the local real-world activity "Query and Retrieve Instances".

— The Storage SCP AE receives incoming instances. It is associated with the local real-world activity "Store Instances to the Local File System". "Store Instances to the Local File System" stores the received instances to the local file system.

— The Print SCU AE prints images on a remote AE (Printer). It is associated with the local real-world activity "Send Images & Print Management Information". "Send Images & Print Management Information" creates a print-job within the print queue containing one or more virtual film sheets composed from images selected by the user.
4.1.2 Functional Definition of AEs

4.1.2.1 Functional Definition of Verification SCU AE
The Verification SCU AE issues a C-ECHO to verify a DICOM connection to a remote AE. It is performed via the Service Tool.

4.1.2.2 Functional Definition of Verification SCP AE
The Verification SCP AE responds successfully to C-ECHO requests from known AE Titles.

4.1.2.3 Functional Definition of Storage SCU AE
The existence of a send-job queue entry with associated network destination will activate the Storage SCU AE. An association request is sent to the destination AE and upon successful negotiation of a Presentation Context the image transfer is started. If the image transfer fails, the Storage SCU AE will retry this send-job automatically. If the remote AE is configured as a Storage Commitment SCP AE, the Storage SCU AE will request Storage Commitment to the Storage Commitment SCU AE.

4.1.2.4 Functional Definition of Storage Commitment SCU AE
The Storage Commitment SCU AE will request Storage Commitment and if a commitment is successfully obtained will record this information in the local database.

4.1.2.5 Functional Definition of MWM SCU AE
The MWM SCU AE attempts to download a worklist from a remote node. If the MWM SCU AE establishes an association to a remote AE, it will transfer patient’s information and worklist items via the open association. The results will be displayed in a separate list. The patient’s information will be used for the patient registration.

4.1.2.6 Functional Definition of MPPS SCU AE
The MPPS SCU AE performs the creation of an MPPS Instance automatically when the user selects and starts a worklist item. Further updates on the MPPS data can be performed when the user completes the acquisition.

4.1.2.7 Functional Definition of Q/R SCU AE
The Q/R SCU AE is activated when the user selects a remote node to query and enters some key information, Patient’s Name, Patient ID and/or Study Date. The user can select studies to be retrieved. The instances will be received at the Storage SCP AE.

4.1.2.8 Functional Definition of Storage SCP AE
The Storage SCP AE waits for another application to connect at the presentation address configured for its Application Entity Title. The Storage SCP AE will accept Associations with Presentation Contexts for SOP Classes of the Verification and Storage Service Classes. Any instances received on such Presentation Contexts will be stored to the local file system.

4.1.2.9 Functional Definition of Print SCU AE
The existence of a print-job in the print queue will activate the Print SCU AE. An association is established with the printer 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, this print-job can be canceled or restarted by the user operations.
4.1.3 Sequencing of Real-World Activities

Under typical scheduled workflow conditions the sequencing constraints illustrated in Figure 4.1-2 apply:

1. Query Worklist
2. Receive Worklist
3. Select Workitem (MSPS) from Worklist
4. Start Acquisition and Create MPPS
5. Acquire Instances
6. Complete Acquisition and Finalize MPPS
7. Store Acquired Instances
8. Commit Acquired Instances
9. Query/Retrieve Instances
10. Receive Instances
11. Print Images

Other workflow situations (e.g. unscheduled procedure steps) will have other sequencing constraints. Some activities may be omitted according to situations.
4.2 AE SPECIFICATIONS

4.2.1 Verification SCU AE Specification

4.2.1.1 SOP Classes
The Verification SCU AE provides Standard Conformance to the following SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verification</td>
<td>1.2.840.10008.1.1</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

4.2.1.2.2 Number of Associations
The Verification SCU AE initiates one association at a time.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.1.2.3 Asynchronous Nature
The Verification SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.1.2.4 Implementation Identifying Information
The implementation information for the Verification SCU AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.1.3 Association Initiation Policy

4.2.1.3.1 Activity – Verify Connectivity

4.2.1.3.1.1 Description and Sequencing of Activities

The Verification SCU AE attempts to initiate a new association in order to issue a verification request (C-ECHO).

![Diagram showing the sequence of interactions between Verification SCU AE and Image Server]

Figure 4.2-1
SEQUENCING OF ACTIVITY – VERIFY CONNECTIVITY

A possible sequence of interactions between the Verification SCU AE and an Image Server (e.g. a storage or archive device supporting the Verification SOP Classes as an SCP) is illustrated in the figure above:

1. The Verification SCU AE opens an association with the Image Server.
2. The Verification SCU AE issues a verification request (C-ECHO) and the Image Server replies with a C-ECHO response (status success).
3. The Verification SCU AE closes the association with the Image Server.

4.2.1.3.1.2 Proposed Presentation Contexts

The Verification SCU AE will propose the Presentation Contexts shown in the following table:

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abstract Syntax</strong></td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Verification</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
4.2.1.3.1.3 SOP Specific Conformance for Verification SOP Class

The Verification SCU AE provides standard conformance to the Verification Service Class as an SCU.

The behavior of Verification SCU AE when encountering status codes in a C-ECHO response is summarized in the table below:

### Table 4.2-7
VERIFICATION RESPONSE STATUS HANDLING BEHAVIOR

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The Verification SCU AE judges the remote AE is present and active on the network.</td>
</tr>
</tbody>
</table>

The behavior of Verification SCU AE during communication failure is summarized in the table below:

### Table 4.2-8
VERIFICATION COMMUNICATION FAILURE BEHAVIOR

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted and the failure reason is logged and reported to the user.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The failure reason is logged and reported to the user.</td>
</tr>
</tbody>
</table>
4.2.2 Verification SCP AE Specification

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

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verification</td>
<td>1.2.840.10008.1.1</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

4.2.2.2 Association Policies

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

4.2.2.2.2 Number of Associations

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>Unlimited</th>
</tr>
</thead>
</table>

4.2.2.2.3 Asynchronous Nature
The Verification SCP AE does not support asynchronous communication (multiple outstanding transactions over a single association):

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.2.4 Implementation Identifying Information
The implementation information for the Verification SCP AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.2.3 Association Initiation Policy
The Verification SCP AE does not initiate associations.

4.2.2.4 Association Acceptance Policy

4.2.2.4.1 Activity – Respond to Verification Request

4.2.2.4.1.1 Description and Sequencing of Activities
When the Verification SCP AE accepts an association, it will respond to a verification request (C-ECHO).

![Diagram](image)

Figure 4.2-2
SEQUENCING OF ACTIVITY – RESPOND TO VERIFICATION REQUEST
A possible sequence of interactions between the Verification SCP AE and an Image Server (e.g. a storage or archive device supporting the Verification SOP Classes as an SCU) is illustrated in the figure above:

1. The Image Server opens an association with the Verification SCP AE.
2. The Image Server issues a verification request (C-ECHO) and the Verification SCP AE replies with a C-ECHO response (status success).
3. The Image Server closes the association with the Verification SCP AE.

The Verification SCP AE may reject association attempts as shown in the table below. The Result, Source and Reason/Diag columns represent the values returned in the appropriate fields of an ASSOCIATE-RJ PDU (see PS 3.8, Section 9.3.4). The contents of the Source column is abbreviated to save space and the meaning of the abbreviations are:

- a. 1 - DICOM UL service-user
- b. 2 - DICOM UL service-provider (ASCE related function)

<table>
<thead>
<tr>
<th>Result</th>
<th>Source</th>
<th>Reason/Diag</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – rejected-permanent</td>
<td>a</td>
<td>3 – calling-AE-title-not-recognized</td>
<td>The association request contained an unrecognized calling AE Title. An association request with the same parameters will not succeed at a later time unless configuration changes are made. This rejection reason normally occurs when the association acceptor has not been configured to recognize the AE Title of the association initiator.</td>
</tr>
<tr>
<td>1 – rejected-permanent</td>
<td>b</td>
<td>1 – no-reason-given</td>
<td>The association request could not be parsed. An association request with the same format will not succeed at a later time.</td>
</tr>
</tbody>
</table>
4.2.2.4.1.2 Accepted Presentation Contexts

The default behavior of the Verification SCP AE supports the Implicit VR Little Endian and Explicit VR Little Endian transfer syntaxes. If the both transfer syntaxes are proposed per presentation context then the Verification SCP AE will select Explicit VR Little Endian transfer syntax.

<table>
<thead>
<tr>
<th>Abstract Syntax</th>
<th>Transfer Syntax</th>
<th>Role</th>
<th>Ext. Neg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>UID</td>
<td>Name List</td>
<td>UID List</td>
</tr>
<tr>
<td>Verification</td>
<td>1.2.840.10008.1.1</td>
<td>Implicit VR Little Endian</td>
<td>1.2.840.10008.1.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
</tbody>
</table>

4.2.2.4.1.3 SOP Specific Conformance for Verification SOP Class

The Verification SCP AE provides standard conformance to the Verification Service Class as an SCP.
4.2.3 Storage SCU AE Specification

4.2.3.1 SOP Classes

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

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Capture Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.6.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.3.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Text SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comprehensive SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toshiba US Private Data Storage</td>
<td>1.2.392.200036.9116.7.8.1.1.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Application Context Name</th>
<th>SOP Class UID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.2.840.10008.3.1.1.1</td>
</tr>
</tbody>
</table>

4.2.3.2.2 Number of Associations

The Storage SCU AE can initiate up to ten associations at a time for each destination to which a transfer request is being processed in the active job queue list. Up to ten jobs, that instances will be sent to the different remote hosts, will be active at a time, the other remains pending until the active job is completed or failed.

| Maximum number of simultaneous associations | 10 |

4.2.3.2.3 Asynchronous Nature

The Storage SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

| Maximum number of outstanding asynchronous transactions | 1 |

4.2.3.2.4 Implementation Identifying Information

The implementation information for the Storage SCU AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>Implementation Version Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.392.200036.9116.6.18.1000.1</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.3.3 Association Initiation Policy

4.2.3.3.1 Activity – Send Instances

4.2.3.3.1.1 Description and Sequencing of Activities

The Storage SCU AE attempts to initiate a new association in order to issue a storage request (C-STORE). If the job contains multiple instances then multiple C-STORE requests will be issued over the same association. If the instance transfer fails, the Storage SCU AE will retry this send-job automatically.

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

1. The Storage SCU AE opens an association with the Server.
2. Acquired instances are transmitted to the Server using a storage request (C-STORE) and the Server replies with a C-STORE response (status success).
3. The Storage SCU AE closes the association with the Server.

Figure 4.2-3
SEQUENCING OF ACTIVITY – SEND INSTANCES

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

1. The Storage SCU AE opens an association with the Server.
2. Acquired instances are transmitted to the Server using a storage request (C-STORE) and the Server replies with a C-STORE response (status success).
3. The Storage SCU AE closes the association with the Server.
### 4.2.3.3.1.2 Proposed Presentation Contexts

The Storage SCU AE will propose the Presentation Contexts in the following table that shows one Presentation Context Item per row:

**Table 4.2-21**

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>Secondary Capture Image Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Ultrasound Image Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Ultrasound Multi-frame Image Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Basic Text SR Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Enhanced SR Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Comprehensive SR Storage</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Toshiba US Private Data Storage</strong></td>
</tr>
</tbody>
</table>

\(^1\) JPEG Baseline (Process 1)  
\(^2\) JPEG Lossless, Non-Hierarchical, First-OrderPrediction (Process 14 [Selection Value 1])
4.2.3.3.1.3 SOP Specific Conformance for Storage SOP Classes

The Storage SCU AE provides standard conformance to the Storage Service Class as an SCU.

The behavior of Storage SCU AE when encountering status codes in a C-STORE response is summarized in the table below:

### Table 4.2-22
**STORAGE C-STORE RESPONSE STATUS HANDLING BEHAVIOR**

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has successfully stored the SOP Instance. If all SOP Instances in a send job have status success then the job is marked as complete.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code</td>
<td>The association is aborted and the send job is marked as failed. The status meaning is logged and the job failure is reported to the user via the job control application.</td>
</tr>
</tbody>
</table>

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

### Table 4.2-23
**STORAGE COMMUNICATION FAILURE BEHAVIOR**

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted and the send job is marked as failed. The reason is logged and the job failure is reported to the user via the job control application.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The send job is marked as failed. The reason is logged and the job failure is reported to the user via the job control application.</td>
</tr>
</tbody>
</table>

If the instance transfer fails, the Storage SCU AE will retry this send-job automatically (see Section 4.4.2).

The contents of Storage SOP Instances created by the Storage SCU AE conform to the IOD definitions and are described in section 8.1.
4.2.4 Storage Commitment SCU AE Specification

4.2.4.1 SOP Classes
The Storage Commitment SCU AE provides Standard Conformance to the following SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Commitment Push Model</td>
<td>1.2.840.10008.1.20.1</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

4.2.4.2 Association Policies

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>Applications Context Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.2.840.10008.3.1.1.1</td>
</tr>
</tbody>
</table>

4.2.4.2.2 Number of Associations
The Storage Commitment SCU AE can initiate up to ten associations at a time.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>10</th>
</tr>
</thead>
</table>

The Storage Commitment SCU AE accepts associations to receive N-EVENT-REPORT notifications for the Storage Commitment Push Model SOP Class.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>10</th>
</tr>
</thead>
</table>

4.2.4.2.3 Asynchronous Nature
The Storage Commitment SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.4.2.4 Implementation Identifying Information
The implementation information for the Storage Commitment SCU AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.4.3 Association Initiation Policy

4.2.4.3.1 Activity – Commit Sent Instances

4.2.4.3.1.1 Description and Sequencing of Activities

If the remote AE is configured as a Storage Commitment SCP AE, the Storage Commitment SCU AE will, after all instances have been sent, transmit a single storage commitment request (N-ACTION). Upon receiving the N-ACTION response the Storage Commitment SCU AE will release the association. The notification of storage commitment (N-EVENT-REPORT) will be received over a separate association.

Figure 4.2-4
SEQUENCING OF ACTIVITY – COMMIT SENT INSTANCES

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

1. The Storage Commitment SCU AE opens an association with the Server.
2. A storage commitment request (N-ACTION) is transmitted to the Server to obtain storage commitment of previously transmitted instances. The Server replies with an N-ACTION response indicating the request has been received and is being processed.
3. The Storage Commitment SCU AE closes the association with the Server.

Note: The N-EVENT-REPORT will be sent over a separate association initiated by the Server (see Section 4.2.4.4.1).
4.2.4.3.1.2 Proposed Presentation Contexts

The Storage Commitment SCU AE will propose the Presentation Contexts shown in the following table:

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Storage Commitment Push Model</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

A Presentation Context for the Storage Commitment Push Model will only be proposed if the remote AE is configured as a Storage Commitment SCP AE.

4.2.4.3.1.3 SOP Specific Conformance for Storage Commitment SOP Class

4.2.4.3.1.3.1 Storage Commitment Operations (N-ACTION)

The Storage Commitment SCU AE provides standard conformance to the Storage Commitment Service Class as an SCU.

The Storage Commitment SCU AE will request storage commitment for instances of the Storage SOP Classes if the remote AE is configured as a Storage Commitment SCP AE and a presentation context for the Storage Commitment Push Model has been accepted.

The behavior of Storage SCU Commitment AE when encountering status codes in an N-ACTION response is summarized in the table below:

<table>
<thead>
<tr>
<th>STORAGEx COMMITMENT N-ACTION RESPONSE STATUS HANDLING BEHAVIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Status</td>
</tr>
<tr>
<td>Success</td>
</tr>
<tr>
<td>*</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>STORAGEx COMMITMENT COMMUNICATION FAILURE BEHAVIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exception</td>
</tr>
<tr>
<td>Timeout</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
</tr>
</tbody>
</table>

If the instance transfer fails, the Storage Commitment AE will retry this send-job automatically (see Section 4.4.2).
4.2.4.4 Association Acceptance Policy

4.2.4.4.1 Activity – Receive Storage Commitment Response

4.2.4.4.1.1 Description and Sequencing of Activities

The Storage Commitment SCU AE will accept associations in order to receive responses to a storage commitment request.

![Diagram](image)

**Figure 4.2-5 SEQUENCING OF ACTIVITY - RECEIVE STORAGE COMMITMENT RESPONSE**

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

1. The Server opens an association with the Storage Commitment SCU AE.
2. The Server sends an N-EVENT-REPORT request notifying the Storage SCU AE of the status of a previous storage commitment request. The Storage SCU AE replies with an N-EVENT-REPORT response confirming receipt.
3. The Server closes the association with the Storage Commitment SCU AE.

The Storage Commitment SCU AE may reject association attempts as shown in the Table 4.2-14.
4.2.4.4.1.2 Accepted Presentation Contexts

The Storage Commitment SCU AE will accept Presentation Contexts shown in the table below.

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Syntax</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Storage Commitment Push Model</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

4.2.4.4.1.3 SOP Specific Conformance for Storage Commitment SOP Class

4.2.4.4.1.3.1 Storage Commitment Notifications (N-EVENT-REPORT)

The Storage Commitment SCU AE provides standard conformance to the Storage Commitment Service Class as an SCU.

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

<table>
<thead>
<tr>
<th>Table 4.2-34 STORAGe COMMITMENT N-EVENT-REPORT BEHAVIOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Type Name</td>
</tr>
<tr>
<td>Storage Commitment Request Successful</td>
</tr>
<tr>
<td>Storage Commitment Request Complete – Failures Exist</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Table 4.2-35 STORAGe COMMITMENT N-EVENT-REPORT RESPONSE STATUS REASONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Status</td>
</tr>
<tr>
<td>Success</td>
</tr>
<tr>
<td>Failure</td>
</tr>
</tbody>
</table>
4.2.5 MWM SCU AE Specification

4.2.5.1 SOP Classes
The MWM SCU AE provides Standard Conformance to the following SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modality Worklist Information Model – FIND</td>
<td>1.2.840.10008.5.1.4.31</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

4.2.5.2 Association Policies

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>SOP Class UID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.2.840.10008.3.1.1.1</td>
</tr>
</tbody>
</table>

4.2.5.2.2 Number of Associations
The MWM SCU AE initiates one association at a time for a worklist request.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>Number of associations initiated for the MWM SCU AE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

4.2.5.2.3 Asynchronous Nature
The MWM SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>Asynchronous nature for the MWM SCU AE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

4.2.5.2.4 Implementation Identifying Information
The implementation information for this Application Entity is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>Implementation Version Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.392.200036.9116.6.18.1000.1</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.5.3 Association Initiation Policy

4.2.5.3.1 Activity – Update Worklist

4.2.5.3.1.1 Description and Sequencing of Activities

The request for an "Update Worklist" is initiated by user interaction, i.e. pressing the buttons "Get Worklist" or automatically at the time of patient registration.

Upon initiation of the request, the MWM SCU AE 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, the MWM SCU AE will access the local database to add or update patient demographic data. The results will be displayed in a separate list.

The MWM SCU AE will initiate an association in order to issue a C-FIND request according to the Modality Worklist Information Model.

![Diagram of Sequence of Activity - Update Worklist]

**Figure 4.2-6 SEQUENCING OF ACTIVITY – UPDATE WORKLIST**

A possible sequence of interactions between the MWM SCU AE and a Department 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:

1. The MWM SCU AE opens an association with the Department Scheduler
2. The MWM SCU AE sends a C-FIND request to the Department Scheduler containing the Worklist Query attributes.
3. The Department Scheduler returns a C-FIND response containing the requested attributes of the first matching worklist item.
4. The Department Scheduler returns another C-FIND response containing the requested attributes of the second matching worklist item.
5. The Department Scheduler returns another C-FIND response with status Success indicating that no further matching worklist items exist. This example assumes that only 2 worklist items match the Worklist Query.
6. The MWM SCU AE closes the association with the Department Scheduler.
7. The user selects a worklist item from the Worklist and prepares to acquire new instances.
4.2.5.3.1.2 Proposed Presentation Contexts

The MWM SCU AE will propose Presentation Contexts shown in the following table:

Table 4.2-41
PROPOSED PRESENTATION CONTEXTS FOR ACTIVITY UPDATE WORKLIST

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Syntax</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Modality Worklist Information Model – FIND</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

4.2.5.3.1.3 SOP Specific Conformance for Modality Worklist SOP Class

The MWM SCU AE provides standard conformance to the Modality Worklist SOP Class as an SCU.

The behavior of the MWM SCU when encountering status codes in a Modality Worklist C-FIND response is summarized in the table below.

Table 4.2-42
MODALITY WORKLIST C-FIND RESPONSE STATUS HANDLING BEHAVIOR

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Matching is complete</td>
<td>0000</td>
<td>The SCP has completed the matches. Worklist items are available for display or further processing.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code</td>
<td>The association is aborted using A-ABORT and the status meaning is logged.</td>
</tr>
</tbody>
</table>

The behavior of the MWM SCU AE during communication failure is summarized in the table below.

Table 4.2-43
MODALITY WORKLIST COMMUNICATION FAILURE BEHAVIOR

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted using A-ABORT and the reason is logged.</td>
</tr>
<tr>
<td>Unsupported character sets</td>
<td></td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The reason is logged.</td>
</tr>
</tbody>
</table>
Acquired instances 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 MWM SCU AE Worklist Request Identifier and specifies the attributes that are copied into the instances. Unexpected attributes returned in a C-FIND response are ignored.

**Table 4.2-44**

<table>
<thead>
<tr>
<th>WORKLIST REQUEST IDENTIFIER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module Name</strong></td>
</tr>
<tr>
<td><strong>SOP Common</strong></td>
</tr>
<tr>
<td><strong>Scheduled Procedure Step</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
| | >Scheduled Procedure Step Description | (0040,0007) | LO | x | x | x | x
| | >>Code Value | (0008,0100) | SH | x | x | x | x
| | >>Coding Scheme Designator | (0008,0102) | SH | x | x | x | x
| | >>Coding Scheme Version | (0008,0103) | SH | x | x | x | x
| | >>Code Meaning | (0008,0104) | LO | x | x | x | x
| | >Scheduled Procedure Step ID | (0040,0009) | SH | x | x | x | x
| | >Scheduled Station Name | (0040,0010) | SH | x | |
| | >Scheduled Procedure Step Location | (0040,0011) | SH | x | |
| | >Pre-Medication | (0040,0012) | LO | x | |
| | >Scheduled Procedure Step Status | (0040,0020) | CS | x | |
| | >Comments on the Scheduled Procedure Step | (0040,0400) | LT | x | |
| **Requested Procedure** | Referenced Study Sequence | (0008,1110) | SQ | x | |
| | >Referenced SOP Class UID | (0008,1150) | UI | x | x | |
| | >Referenced SOP Instance UID | (0008,1155) | UI | x | x | |
| | Study Instance UID | (0020,000D) | UI | x | |
| | Requested Procedure Description | (0032,1060) | LO | x | x | x | x
| | Requested Procedure Code Sequence | (0032,1064) | SQ | x | |
| | >Code Value | (0008,0100) | SH | x | x | |
| | >Coding Scheme Designator | (0008,0102) | SH | x | x | |
| | >Coding Scheme Version | (0008,0103) | SH | x | x | |
| | >Code Meaning | (0008,0104) | LO | x | |
| | Requested Procedure ID | (0040,1001) | SH | S | x | x | x | x
<p>| | Reason for the Requested Procedure | (0040,1002) | LO | x | |</p>
<table>
<thead>
<tr>
<th>Requested Procedure Priority</th>
<th>(0040,1003)</th>
<th>SH</th>
<th>x</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Transport Arrangements</td>
<td>(0040,1004)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Requested Procedure Location</td>
<td>(0040,1005)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Confidentiality Code</td>
<td>(0040,1008)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Reporting Priority</td>
<td>(0040,1009)</td>
<td>SH</td>
<td>x</td>
</tr>
<tr>
<td>Names of Intended Recipients of Results</td>
<td>(0040,1010)</td>
<td>PN</td>
<td>x</td>
</tr>
<tr>
<td>Requested Procedure Comments</td>
<td>(0040,1400)</td>
<td>LT</td>
<td>x</td>
</tr>
</tbody>
</table>

**Imaging Service Request**

| Accession Number | (0008,0050) | SH | S,* | x | x | x |
| Referring Physician's Name | (0008,0090) | PN | x | x | x |
| Requesting Physician | (0032,1032) | PN | x | x | x |
| Requesting Service | (0032,1033) | LO | x | x |
| Issue Date of Imaging Service Request | (0040,2004) | DA | x |
| Issue Time of Imaging Service Request | (0040,2005) | TM | x |
| Order Entered By | (0040,2008) | PN | x |
| Order Enterer's Location | (0040,2009) | SH | x |
| Order Callback Phone Number | (0040,2010) | SH | x |
| Placer Order Number/ Imaging Service Request | (0040,2016) | LO | x |
| Filler Order Number/ Imaging Service Request | (0040,2017) | LO | x |
| Imaging Service Request Comments | (0040,2400) | LT | x |

**Visit Identification**

| Institution Name | (0008,0080) | LO | x |
| Institution Address | (0008,0081) | ST | x |
| Institution Code Sequence | (0008,0082) | SQ | |
| >Code Value | (0008,0100) | SH | x |
| >Coding Scheme Designator | (0008,0102) | SH | x |
| >Coding Scheme Version | (0008,0103) | SH | x |
| >Code Meaning | (0008,0104) | LO | x |
| Admission ID | (0038,0010) | LO | x |

**Visit Staus**

| Visit Status ID | (0038,0008) | CS | x |
| Current Patient Location | (0038,0300) | LO | x |
| Patient's Institution Residence | (0038,0400) | LO | x | x |
| Visit Comments | (0038,4000) | LT | x |

**Visit Admission**

<p>| Referring Physician's Address | (0008,0092) | ST | x |
| Referring Physician's Telephone Numbers | (0008,0094) | SH | x |
| Admitting Diagnoses Description | (0008,1080) | LO | x | x |
| Admitting Diagnosis Code Sequence | (0008,1084) | SQ | |
| &gt;Code Value | (0008,0100) | SH | x |
| &gt;Coding Scheme Designator | (0008,0102) | SH | x |
| &gt;Coding Scheme Version | (0008,0103) | SH | x |
| &gt;Code Meaning | (0008,0104) | LO | x |
| Route of Admissions | (0038,0016) | LO | x |
| Admitting Date | (0038,0020) | DA | x |</p>
<table>
<thead>
<tr>
<th><strong>Admitting Time</strong></th>
<th>(0038,0021)</th>
<th>TM</th>
<th>x</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visit Relationship</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Referenced Patient Sequence</td>
<td>(0008,1120)</td>
<td>SQ</td>
<td>x</td>
</tr>
<tr>
<td>&gt;Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>UI</td>
<td>x</td>
</tr>
<tr>
<td>&gt;Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>UI</td>
<td>x</td>
</tr>
<tr>
<td><strong>Patient Relationship</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Referenced Patient Alias Sequence</td>
<td>(0038,0004)</td>
<td>SQ</td>
<td></td>
</tr>
<tr>
<td>&gt;Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>UI</td>
<td>x</td>
</tr>
<tr>
<td>&gt;Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>UI</td>
<td></td>
</tr>
<tr>
<td><strong>Patient Identification</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient's Name</td>
<td>(0010,0010)</td>
<td>PN</td>
<td>*</td>
</tr>
<tr>
<td>Patient ID</td>
<td>(0010,0020)</td>
<td>LO</td>
<td>S,*</td>
</tr>
<tr>
<td>Issuer of Patient ID</td>
<td>(0010,0021)</td>
<td>LO</td>
<td></td>
</tr>
<tr>
<td>Other Patient IDs</td>
<td>(0010,1000)</td>
<td>LO</td>
<td></td>
</tr>
<tr>
<td>Other Patient Names</td>
<td>(0010,1001)</td>
<td>PN</td>
<td></td>
</tr>
<tr>
<td>Patient's Birth Name</td>
<td>(0010,1005)</td>
<td>PN</td>
<td></td>
</tr>
<tr>
<td>Patient's Mother's Birth Name</td>
<td>(0010,1060)</td>
<td>PN</td>
<td></td>
</tr>
<tr>
<td>Medical Record Locator</td>
<td>(0010,1090)</td>
<td>LO</td>
<td></td>
</tr>
<tr>
<td><strong>Patient Demographic</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient’s Birth Date</td>
<td>(0010,0030)</td>
<td>DA</td>
<td>x</td>
</tr>
<tr>
<td>Patient’s Birth Time</td>
<td>(0010,0032)</td>
<td>TM</td>
<td>x</td>
</tr>
<tr>
<td>Patient’s Sex</td>
<td>(0010,0040)</td>
<td>CS</td>
<td>x</td>
</tr>
<tr>
<td>Patient’s Insurance Plan Code Sequence</td>
<td>(0010,0050)</td>
<td>SQ</td>
<td></td>
</tr>
<tr>
<td>&gt;Code Value</td>
<td>(0008,0100)</td>
<td>SH</td>
<td></td>
</tr>
<tr>
<td>&gt;Coding Scheme Designator</td>
<td>(0008,0102)</td>
<td>SH</td>
<td></td>
</tr>
<tr>
<td>&gt;Coding Scheme Version</td>
<td>(0008,0103)</td>
<td>SH</td>
<td></td>
</tr>
<tr>
<td>&gt;Code Meaning</td>
<td>(0008,0104)</td>
<td>LO</td>
<td></td>
</tr>
<tr>
<td>Patient's Age</td>
<td>(0010,1010)</td>
<td>AS</td>
<td>x</td>
</tr>
<tr>
<td>Patient's Size</td>
<td>(0010,1020)</td>
<td>DS</td>
<td>x</td>
</tr>
<tr>
<td>Patient's Weight</td>
<td>(0010,1030)</td>
<td>DS</td>
<td>x</td>
</tr>
<tr>
<td>Patient's Address</td>
<td>(0010,1040)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Military Rank</td>
<td>(0010,1080)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Branch of Service</td>
<td>(0010,1081)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Country of Residence</td>
<td>(0010,2150)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Region of Residence</td>
<td>(0010,2152)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Patient's Telephone Numbers</td>
<td>(0010,2154)</td>
<td>SH</td>
<td>x</td>
</tr>
<tr>
<td>Ethnic Group</td>
<td>(0010,2160)</td>
<td>SH</td>
<td>x</td>
</tr>
<tr>
<td>Occupation</td>
<td>(0010,2180)</td>
<td>SH</td>
<td>x</td>
</tr>
<tr>
<td>Patient's Religious Preference</td>
<td>(0010,21F0)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Patient Comments</td>
<td>(0010,4000)</td>
<td>LT</td>
<td>x</td>
</tr>
<tr>
<td>Confidentiality Constraint on Patient Data Description</td>
<td>(0040,3001)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td><strong>Patient Medical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Alerts</td>
<td>(0010,2000)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Allergies</td>
<td>(0010,2110)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Smoking Status</td>
<td>(0010,21A0)</td>
<td>CS</td>
<td>x</td>
</tr>
<tr>
<td>Module Name</td>
<td>Attribute Name</td>
<td>Tag</td>
<td>VR</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------------------------------------</td>
<td>--------------</td>
<td>-----</td>
</tr>
<tr>
<td>Additional Patient History</td>
<td>(0010,21B0)</td>
<td>LT</td>
<td>x</td>
</tr>
<tr>
<td>Pregnancy Status</td>
<td>(0010,21C0)</td>
<td>US</td>
<td>x</td>
</tr>
<tr>
<td>Last Menstrual Date</td>
<td>(0010,21D0)</td>
<td>DA</td>
<td>x</td>
</tr>
<tr>
<td>Special Needs</td>
<td>(0038,0050)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Patient State</td>
<td>(0038,0500)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Other Attributes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Description</td>
<td>(0008,1030)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Institutional Department Name</td>
<td>(0008,1040)</td>
<td>LO</td>
<td>x</td>
</tr>
<tr>
<td>Operators' Name</td>
<td>(0008,1070)</td>
<td>PN</td>
<td>x</td>
</tr>
</tbody>
</table>

The above table should be read as follows:

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

Attribute Name: Attributes supported to build the MWM SCU AE Worklist Request Identifier.

Tag: DICOM tag for this attribute.

VR: DICOM VR for this attribute.


S: Single Value Matching

R: Range Matching

*: Wild Card Matching

R: Return keys. An "x" will indicate that the MWM SCU AE will supply this attribute as Return Key with zero length for Universal Matching. This setting can be configured using the service tool.

D: Displayed keys. An "x" indicates that this worklist attribute is displayed to the user during a patient registration. For example, Patient Name will be displayed when registering the patient prior to an examination.

IOD: An "x" indicates that this worklist attribute is included into all Object Instances created during performance of the related Procedure Step.

Notes: Specific Character Set (0008,0005) will be created if an extended or replacement character set is used in the matching keys.

Patient’s Institution Residence (0038,0400) will be displayed as In Patient or Out Patient when matching the following string: Inpatient or Outpatient.

In the default setting, Study Description (0008,1030) will be displayed at Exam Type when matching the following exam types: Abdomen, Carotid, Thyroid, Breast, OB, GYN, Endo-Vaginal, Fetal Heart, Adult Heart, Pediatric Heart, Coronary, TCD, Neo-Head, Neo-General, Neo-Hip, PV Venous, PV Arterial, Digits, MSK, Prostate, Kidney, Testes, OTHER or M-TEE. They can be also configured to correspond to user-defined terms, and it is selectable where to set those terms: Study Description (0008,1030), Scheduled Procedure Step Description (0040,0007), or Requested Procedure Description (0032,1060).

**4.2.5.4 Association Acceptance Policy**

The MWM SCU AE does not accept associations.
4.2.6 MPPS SCU AE Specification

4.2.6.1 SOP Classes
The MPPS SCU AE provides Standard Conformance to the following SOP Classes:

Table 4.2-45
SOP CLASSES FOR THE MPPS SCU AE

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modality Performed Procedure Step</td>
<td>1.2.840.10008.3.1.2.3.3</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

4.2.6.2 Association Policies

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

Table 4.2-46
DICOM APPLICATION CONTEXT FOR THE MPPS SCU AE

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

4.2.6.2.2 Number of Associations
The MPPS SCU AE initiates one association at a time.

Table 4.2-47
NUMBER OF ASSOCIATIONS INITIATED FOR THE MPPS SCU AE

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.6.2.3 Asynchronous Nature
The MPPS SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

Table 4.2-48
ASYNCHRONOUS NATURE FOR THE MPPS SCU AE

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.6.2.4 Implementation Identifying Information
The implementation information for this Application Entity is:

Table 4.2-49
DICOM IMPLEMENTATION CLASS AND VERSION FOR THE MPPS SCU AE

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>Implementation Version Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.392.200036.9116.6.18.1000.1</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.6.3 Association Initiation Policy

4.2.6.3.1 Activity – Acquire Instances

4.2.6.3.1.1 Description and Sequencing of Activities

The MPPS SCU AE performs the creation of an MPPS instance automatically when the user selects and starts a worklist item. Further updates on the MPPS data can be performed when the user completes the acquisition.

The MPPS SCU AE 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.

A possible sequence of interactions between the MPPS SCU AE and a Department 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:

1. The MPPS SCU AE opens an association with the Department Scheduler.
2. The MPPS SCU AE sends an N-CREATE request to the Department Scheduler to create an MPPS instance with status of “IN PROGRESS” and create all necessary attributes. The Department Scheduler acknowledges the MPPS creation with an N-CREATE response (status success).
3. The MPPS SCU AE closes the association with the Department Scheduler.
4. All instances are acquired and stored in the local database.
5. The MPPS SCU AE opens an association with the Department Scheduler.
6. The MPPS SCU AE sends an N-SET request to the Department Scheduler to update the MPPS instance with status of “COMPLETED” and set all necessary attributes. The Department Scheduler acknowledges the MPPS update with an N-SET response (status success).
7. The MPPS SCU AE closes the association with the Department Scheduler.
4.2.6.3.1.2 Proposed Presentation Contexts

The MPPS SCU AE will propose Presentation Contexts shown in the following table:

Table 4.2-50
PROPOSED PRESENTATION CONTEXTS FOR REAL-WORLD ACTIVITY ACQUIRE INSTANCES

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Syntax</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Modality Performed Procedure Step</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

4.2.6.3.1.3 SOP Specific Conformance for MPPS SOP Class

The MPPS SCU AE provides standard conformance to the Modality Performed Procedure Step SOP Class as an SCU.

The behavior of the MPPS SCU AE when encountering status codes in an MPPS N-CREATE or N–SET response is summarized in the table below:

Table 4.2-51
MPPS N-CREATE / N-SET RESPONSE STATUS HANDLING BEHAVIOR

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code</td>
<td>The association is aborted and the MPPS is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>

The behavior of the MPPS SCU AE during communication failure is summarized in the table below:

Table 4.2-52
MPPS COMMUNICATION FAILURE BEHAVIOR

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted and MPPS is marked as failed. The reason is logged and reported to the user.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The MPPS is marked as failed. The reason is logged and reported to the user.</td>
</tr>
</tbody>
</table>
The table below provides a description of the MPPS N-CREATE and N-SET request identifiers sent by the MPPS SCU AE. Empty cells in the N-CREATE and N-SET columns indicate that the attribute is not sent. An "x" indicates that an appropriate value will be sent. A "Zero length" attribute will be sent with zero length.

### Table 4.2-53

**MPPS N-CREATE / N-SET REQUEST IDENTIFIER**

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>N-CREATE</th>
<th>N-SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Character Set</td>
<td>(0008,0005)</td>
<td>CS</td>
<td>Created, if an extended or replacement character set is used. Refer to 6.SUPPORT OF CHARACTER SETS</td>
<td>Attribute never supplied, even when extended or replacement character set is used.</td>
</tr>
<tr>
<td>Scheduled Step Attributes Sequence</td>
<td>(0040,0270)</td>
<td>SQ</td>
<td>Always set</td>
<td></td>
</tr>
<tr>
<td>&gt;Study Instance UID</td>
<td>(0020,000D)</td>
<td>UI</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Referenced Study Sequence</td>
<td>(0008,1110)</td>
<td>SQ</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>UI</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt;Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>UI</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Accession Number</td>
<td>(0008,0050)</td>
<td>SH</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Placer Order Number/Imaging Service Request</td>
<td>(0040,2016)</td>
<td>LO</td>
<td>Zero length</td>
<td></td>
</tr>
<tr>
<td>&gt;Filler Order Number/Imaging Service Request</td>
<td>(0040,2017)</td>
<td>LO</td>
<td>Zero length</td>
<td></td>
</tr>
<tr>
<td>&gt;Requested Procedure ID</td>
<td>(0040,1001)</td>
<td>SH</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Requested Procedure Description</td>
<td>(0032,1060)</td>
<td>LO</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduled Procedure Step ID</td>
<td>(0040,0009)</td>
<td>SH</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduled Procedure Step Description</td>
<td>(0040,0007)</td>
<td>LO</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Scheduled Protocol Code Sequence</td>
<td>(0040,0008)</td>
<td>SQ</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>Patient’s Name</td>
<td>(0010,0010)</td>
<td>PN</td>
<td>From Modality Worklist or user input</td>
<td></td>
</tr>
<tr>
<td>Patient ID</td>
<td>(0010,0020)</td>
<td>LO</td>
<td>From Modality Worklist or user input</td>
<td></td>
</tr>
<tr>
<td>Patient’s Birth Date</td>
<td>(0010,0030)</td>
<td>DA</td>
<td>From Modality Worklist or user input</td>
<td></td>
</tr>
<tr>
<td>Patient’s Sex</td>
<td>(0010,0040)</td>
<td>CS</td>
<td>From Modality Worklist or user input</td>
<td></td>
</tr>
<tr>
<td>Referenced Patient Sequence</td>
<td>(0008,1120)</td>
<td>SQ</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>UI</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td>&gt;Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>UI</td>
<td>From Modality Worklist</td>
<td></td>
</tr>
<tr>
<td><strong>Performed Procedure Step Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performed Procedure Step ID</td>
<td>(0040,0253)</td>
<td>SH</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Performed Station AE Title</td>
<td>(0040,0241)</td>
<td>AE</td>
<td>MPPS SCU AE Title</td>
<td></td>
</tr>
<tr>
<td>Performed Station Name</td>
<td>(0040,0242)</td>
<td>SH</td>
<td>From configuration</td>
<td></td>
</tr>
<tr>
<td>Performed Location</td>
<td>(0040,0243)</td>
<td>SH</td>
<td>Zero length</td>
<td></td>
</tr>
<tr>
<td>Performed Procedure Step Start Date</td>
<td>(0040,0244)</td>
<td>DA</td>
<td>Actual start date</td>
<td></td>
</tr>
<tr>
<td>Performed Procedure Step Start Time</td>
<td>(0040,0245)</td>
<td>TM</td>
<td>Actual start time</td>
<td></td>
</tr>
<tr>
<td>Performed Procedure Step Status</td>
<td>(0040,0252)</td>
<td>CS</td>
<td>IN PROGRESS</td>
<td>COMPLETED or DISCONTINUED</td>
</tr>
<tr>
<td>Performed Procedure Step Description</td>
<td>(0040,0254)</td>
<td>LO</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Performed Procedure Type Description</td>
<td>(0040,0255)</td>
<td>LO</td>
<td>Zero length</td>
<td>Zero length</td>
</tr>
<tr>
<td>Procedure Code Sequence</td>
<td>0008,1032</td>
<td>SQ</td>
<td>Zero or more items</td>
<td>Zero or more items</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------</td>
<td>----</td>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Performed Procedure Step End Date</td>
<td>0040,0250</td>
<td>DA</td>
<td>Zero length</td>
<td>Actual end date</td>
</tr>
<tr>
<td>Performed Procedure Step End Time</td>
<td>0040,0251</td>
<td>TM</td>
<td>Zero length</td>
<td>Actual end time</td>
</tr>
<tr>
<td>Comments on the Performed Procedure Step</td>
<td>0040,0280</td>
<td>ST</td>
<td>Zero length</td>
<td>Zero length</td>
</tr>
<tr>
<td>Performed Procedure Step Discontinuation Reason Code Sequence</td>
<td>0040,0281</td>
<td>SQ</td>
<td>Zero or one item</td>
<td></td>
</tr>
<tr>
<td>&gt;Code Value</td>
<td>0008,0100</td>
<td>SH</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>&gt;Coding Scheme Designator</td>
<td>0008,0102</td>
<td>SH</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>&gt;Coding Scheme Version</td>
<td>0008,0103</td>
<td>SH</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>&gt;Code Meaning</td>
<td>0008,0104</td>
<td>LO</td>
<td>User input</td>
<td></td>
</tr>
</tbody>
</table>

**Image Acquisition Results**

| Modality | 0008,0060 | CS | US | US |
| Study ID | 0020,0010 | SH | x | x |
| Performed Protocol Code Sequence | 0040,0260 | SQ | Zero or more items | One or more items |
| Performed Series Sequence | 0040,0340 | SQ | Zero or more items | One or more items |
| >Performing Physician’s Name | 0008,1050 | PN | From Modality Worklist or user input | x |
| >Protocol Name | 0018,1030 | LO | From Modality Worklist or user input | x |
| >Operators’ Name | 0008,1070 | PN | From Modality Worklist or user input | From Modality Worklist or user input |
| >Series Instance UID | 0020,000E | UI | x | x |
| >Series Description | 0008,103E | LO | Zero length | Zero length |
| >Retrieve AE Title | 0008,0054 | AE | Zero length | Zero length |
| >Referenced Image Sequence | 0008,1140 | SQ | Zero or more items | One or more items |
| >>Referenced SOP Class UID | 0008,1150 | UI | x | x |
| >>Referenced SOP Instance UID | 0008,1155 | UI | x | x |
| >Referenced Non-Image Composite SOP Instance Sequence | 0040,0220 | SQ | Zero length | Zero length |

**Radiation Dose**

| Anatomic Structure, Space or RegionSequence | 0008,2229 | SQ | Zero or more items | Zero or more items |
| Total Time of Fluoroscopy | 0040,0300 | US | Zero length | Zero length |
| Total Number of Exposures | 0040,0301 | US | Zero length | Zero length |
| Distance Source to Detector | 0018,1110 | DS | Zero length | Zero length |
| Comments on Radiation Dose | 0040,0310 | ST | Zero length | Zero length |
| Distance Source to Entrance | 0040,0306 | DS | Zero length | Zero length |
| Entrance Dose | 0040,0302 | US | Zero length | Zero length |
| Exposed Area | 0040,0303 | US | Zero length | Zero length |
| Entrance Dose in mGy | 0040,8302 | DS | Zero length | Zero length |
| Image Area Dose Product | 0018,115E | DS | Zero length | Zero length |
| Exposure Dose Sequence | 0040,030E | SQ | Zero or more items | Zero or more items |

**Billing and Material Code**

| Billing Procedure Step Sequence | 0040,0320 | SQ | Zero or more items | Zero or more items |
| >Code Value | 0008,0100 | SH | x | |
### 4.2.6.4 Association Acceptance Policy

The MPPS SCU AE does not accept associations.
4.2.7 Q/R SCU AE Specification

4.2.7.1 SOP Classes
The Q/R SCU AE provides Standard Conformance to the following SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Root Q/R Information Model – Find</td>
<td>1.2.840.10008.5.1.4.1.2.2.1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Study Root Q/R Information Model – Move</td>
<td>1.2.840.10008.5.1.4.1.2.2.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.2.7.2 Association Policies

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

4.2.7.2.2 Number of Associations
The Q/R SCU AE initiates one association at a time.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.7.2.3 Asynchronous Nature
The Q/R SCU AE does not support asynchronous communication (multiple outstanding transactions over a single association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.7.2.4 Implementation Identifying Information
The implementation information for this Application Entity is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.7.3 Association Initiation Policy

4.2.7.3.1 Activity – Query and Retrieve Instances

4.2.7.3.1.1 Description and Sequencing of Activities

The Q/R SCU AE is activated when the user selects a remote node to query and enters some key information, Patient’s Name, Patient ID and/or Study Date. The user can select series to be retrieved. The instances will be received at the Storage SCP AE.
The following sequencing constraints illustrated in the Figure above:

1. The Q/R SCU AE opens an association with the Q/R SCP AE.
2. The Q/R SCU AE sends a C-FIND-RQ Message.
3. The Q/R SCP AE returns a C-FIND-RSP Message to the Q/R SCU AE with matching information. A C-FIND-RSP is sent for each entity matching the identifier specified in the C-FIND-RQ. A final C-FIND-RSP is sent indicating that the matching is complete.
4. The Q/R SCU AE closes the association.
5. The Q/R SCU AE opens an association with the Q/R SCP AE.
6. The Q/R SCU AE sends a C-MOVE-RQ Message. The Q/R SCP AE notifies the Storage SCU AE to send the Composite SOP Instances to the peer C-MOVE Destination AE as indicated in the C-MOVE-RQ.
7. The Storage SCU AE opens an association with the C-MOVE Destination AE.
8. The Storage SCU AE sends instances to the C-MOVE Destination AE. The Storage SCU AE indicates to the Q/R SCP AE whether the transfer succeeded or failed.
9. The Q/R SCP AE then returns a C-MOVE-RSP indicating this success or failure.
10. The Storage SCU AE closes the association.
11. The Q/R SCU AE closes the association.
4.2.7.3.1.2  Proposed Presentation Contexts

The Q/R SCU AE will propose Presentation Contexts shown in the following table:

<table>
<thead>
<tr>
<th>Name</th>
<th>UID</th>
<th>Transfer Syntax</th>
<th>Role</th>
<th>Ext. Neg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Root Q/R Information Model –</td>
<td>1.2.840.10008.5.1.4.1.2.2.1</td>
<td>Implicit VR Little Endian</td>
<td>SCU</td>
<td>None</td>
</tr>
<tr>
<td>Find</td>
<td></td>
<td>Explicit VR Little Endian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Root Q/R Information Model –</td>
<td>1.2.840.10008.5.1.4.1.2.2.2</td>
<td>Implicit VR Little Endian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Move</td>
<td></td>
<td>Explicit VR Little Endian</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.2.7.3.1.3  SOP Specific Conformance for Q/R Find SOP Classes

The Q/R SCU AE provides standard conformance to the Query/Retrieve Find SOP Classes as an SCU.

The behavior of the Q/R SCU AE when encountering status codes in a Q/R C-FIND response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Matching is complete</td>
<td>0000</td>
<td>The SCP has completed the matches. Study or Series information items are available for display or further processing.</td>
</tr>
<tr>
<td>*</td>
<td>Any other status code</td>
<td></td>
<td>The association is aborted using A-ABORT and the Study or Series information is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>

The behavior of the Q/R SCU AE during communication failure is summarized in the table below.

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted and the study or series query is marked as failed. The reason is logged and reported to the user.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The study or series query is marked as failed. The reason is logged and reported to the user.</td>
</tr>
</tbody>
</table>
All queries are initiated at the highest level of the information model (the STUDY level), and then for each response received, recursively repeated at the next lower levels (the SERIES), in order to completely elucidate the "tree" of instances available on the remote AE.

The table below provides a description of the Q/R SCU AE C-FIND Request Identifier.

Table 4.2-62
STUDY ROOT REQUEST IDENTIFIER FOR C-FIND

<table>
<thead>
<tr>
<th>Name</th>
<th>Tag</th>
<th>Types of Matching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Date</td>
<td>(0008,0020)</td>
<td>U,R</td>
</tr>
<tr>
<td>Study Time</td>
<td>(0008,0030)</td>
<td>U</td>
</tr>
<tr>
<td>Accession Number</td>
<td>(0008,0050)</td>
<td>S,U</td>
</tr>
<tr>
<td>Retrieve AE Title</td>
<td>(0008,0054)</td>
<td>U</td>
</tr>
<tr>
<td>Modalities in Study</td>
<td>(0008,0061)</td>
<td>U</td>
</tr>
<tr>
<td>Referenced Patient Sequence</td>
<td>(0008,1120)</td>
<td>U</td>
</tr>
<tr>
<td>Patient's Name</td>
<td>(0010,0010)</td>
<td>*,U</td>
</tr>
<tr>
<td>Patient ID</td>
<td>(0010,0020)</td>
<td>*,U</td>
</tr>
<tr>
<td>Patient's Birth Date</td>
<td>(0010,0030)</td>
<td>U</td>
</tr>
<tr>
<td>Patient's Birth Time</td>
<td>(0010,0032)</td>
<td>U</td>
</tr>
<tr>
<td>Patient's Sex</td>
<td>(0010,0040)</td>
<td>U</td>
</tr>
<tr>
<td>Other Patient IDs</td>
<td>(0010,1000)</td>
<td>U</td>
</tr>
<tr>
<td>Ethnic Group</td>
<td>(0010,2160)</td>
<td>U</td>
</tr>
<tr>
<td>Patient Comments</td>
<td>(0010,4000)</td>
<td>U</td>
</tr>
<tr>
<td>Study Instance UID</td>
<td>(0020,000D)</td>
<td>UNIQUE</td>
</tr>
<tr>
<td>Study ID</td>
<td>(0020,0010)</td>
<td>U</td>
</tr>
<tr>
<td>Number of Patient Related Studies</td>
<td>(0020,1200)</td>
<td>U</td>
</tr>
<tr>
<td>Number of Patient Related Series</td>
<td>(0020,1202)</td>
<td>U</td>
</tr>
<tr>
<td>Number of Patient Related Instances</td>
<td>(0020,1204)</td>
<td>U</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Tag</th>
<th>Types of Matching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Date</td>
<td>(0008,0021)</td>
<td>U</td>
</tr>
<tr>
<td>Series Time</td>
<td>(0008,0031)</td>
<td>U</td>
</tr>
<tr>
<td>Retrieve AE Title</td>
<td>(0008,0054)</td>
<td>U</td>
</tr>
<tr>
<td>Modality</td>
<td>(0008,0060)</td>
<td>U</td>
</tr>
<tr>
<td>Protocol Name</td>
<td>(0018,1030)</td>
<td>U</td>
</tr>
<tr>
<td>Series Instance UID</td>
<td>(0020,000E)</td>
<td>UNIQUE</td>
</tr>
<tr>
<td>Series Number</td>
<td>(0020,0011)</td>
<td>U</td>
</tr>
<tr>
<td>Number of Series Related Instances</td>
<td>(0020,1209)</td>
<td>U</td>
</tr>
</tbody>
</table>

Types of Matching:

The types of Matching supported by the Q/R SCU AE. An "S" indicates the identifier attribute uses Single Value Matching, an "R" indicates Range Matching, an "*" indicates wildcard matching, and a "U" indicates Universal Matching. "UNIQUE" indicates that this is the Unique Key for that query level, in which case Universal Matching or Single Value Matching is used depending on the query level.
4.2.7.3.1.4 SOP Specific Conformance for Q/R Move SOP Classes

The Q/R SCU AE provides standard conformance to the Query/Retrieve Move SOP Classes as an SCU.

The behavior of the Q/R SCU AE when encountering status codes in a Q/R C-MOVE response is summarized in the table below:

**Table 4.2-63**

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Sub-operations complete – No Failures</td>
<td>0000</td>
<td>The Storage SCP AE has successfully received the SOP Instance. If all SOP Instances in a move job have status success then the job is marked as complete.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code</td>
<td>The association is aborted using A-ABORT and the move job is marked as failed. The status meaning is logged and the job failure is reported to the user via the job control application.</td>
</tr>
</tbody>
</table>

The behavior of the Q/R SCU AE during communication failure is summarized in the table below:

**Table 4.2-64**

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The association is aborted using A-ABORT and the retrieve is marked as failed. The reason is logged and reported to the user if an interactive query.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The retrieve is marked as failed. The reason is logged and reported to the user if an interactive query.</td>
</tr>
</tbody>
</table>

4.2.7.4 Association Acceptance Policy

The Q/R SCU AE does not accept associations.
4.2.8 Storage SCP AE Specification

4.2.8.1 SOP Classes

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

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Capture Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.6.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.3.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Text SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.22</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Comprehensive SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MR Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toshiba US Private Data Storage</td>
<td>1.2.392.200036.9116.7.8.1.1.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4.2.8.2 Association Policies

4.2.8.2.1 General

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

4.2.8.2.2 Number of Associations

The Storage SCP AE can support up to ten associations at a time.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous associations</th>
<th>10</th>
</tr>
</thead>
</table>

4.2.8.2.3 Asynchronous Nature

The Storage SCP AE does not support asynchronous communication (multiple outstanding transactions over a single association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.8.4.4 Implementation Identifying Information

The implementation information for the Storage SCP AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>
4.2.8.3 Association Initiation Policy

The Storage SCP AE does not initiate associations.

4.2.8.4 Association Acceptance Policy

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

![Figure 4.2-9](image)

Figure 4.2-9

SEQUENCING OF ACTIVITY – STORE IMAGES TO THE LOCAL FILE SYSTEM

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

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

The Storage SCP AE may reject association attempts as shown in the Table 4.2-14.

Note: The user needs to perform QUERY described in 4.2.7.3.1.1 once for activating the Storage SCP AE, otherwise retrieval of instances will be aborted.
4.2.8.4.1.1 Accepted Presentation Contexts

The default behavior of the Storage SCP AE supports the Implicit VR Little Endian and Explicit VR Little Endian transfer syntaxes. If both transfer syntaxes are proposed per presentation context, then the Storage SCP AE will select the Explicit VR Little Endian Transfer Syntax.

Any of the presentation contexts shown in the following table are acceptable to the Storage SCP AE.

### Table 4.2-70

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract Syntax</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Secondary Capture Image Storage</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Basic Text SR Storage&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Comprehensive SR Storage&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>CT Image Storage&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>MR Image Storage&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Toshiba US Private Data Storage&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*1 JPEG Baseline (Process 1)
*2 JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1])
*3 Basic Text SR, Comprehensive SR, and Toshiba US Private Data can be received only via port 11600.
*4 CT Image and MR Image can be received only via port 104.
4.2.8.4.1.2 SOP Specific Conformance for Verification SOP Class

The Storage SCP AE provides standard conformance to the Verification SOP Class as an SCP.

4.2.8.4.1.3 SOP Specific Conformance for Storage SOP Classes

The associated Activity with the Storage service is the storage of medical data received over the network on a designated hard disk. The Storage SCP AE will return a failure status if it is unable to store the instances on to the hard disk.

The Storage SCP AE is Level 0 conformant as a Storage SCP.

Table 4.2-71
THE STORAGE SCP AE C-STORE RESPONSE STATUS RETURN REASONS

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The Composite SOP Instance was successfully received, verified, and stored in the system database.</td>
</tr>
<tr>
<td>Refused</td>
<td>Out of Resources</td>
<td>A700</td>
<td>Indicates that there were not enough local resources.</td>
</tr>
<tr>
<td>Error</td>
<td>Cannot Understand</td>
<td>C000</td>
<td>Indicates that the Storage SCP AE cannot parse the Data Set into Elements. (e.g. when receiving unsupported character sets)</td>
</tr>
</tbody>
</table>
4.2.9 Print SCU AE Specification

4.2.9.1 SOP Classes
The Print SCU AE provides Standard Conformance to the following Meta SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Grayscale Print Management Meta</td>
<td>1.2.840.10008.5.1.1.9</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Basic Color Print Management Meta</td>
<td>1.2.840.10008.5.1.1.18</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

The above Meta SOP Classes are defined by the following set of supported SOP Classes:

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Film Session SOP Class</td>
<td>1.2.840.10008.5.1.1.1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Basic film Box SOP Class</td>
<td>1.2.840.10008.5.1.1.2</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Basic Grayscale Image Box SOP Class</td>
<td>1.2.840.10008.5.1.1.4</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Basic Color Image Box SOP Class</td>
<td>1.2.840.10008.5.1.1.4.1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Printer SOP Class</td>
<td>1.2.840.10008.5.1.1.16</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

4.2.9.2 Association Policies

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

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>SOP Class UID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.2.840.10008.3.1.1.1</td>
</tr>
</tbody>
</table>

4.2.9.2.2 Number of Associations
The Print SCU AE initiates one association at a time.

<table>
<thead>
<tr>
<th>Maximum number of simultaneous Associations</th>
<th>1</th>
</tr>
</thead>
</table>

4.2.9.2.3 Asynchronous Nature
The Print SCU AE does not support asynchronous communication (multiple outstanding transactions over a single Association).

<table>
<thead>
<tr>
<th>Maximum number of outstanding asynchronous transactions</th>
<th>1</th>
</tr>
</thead>
</table>
4.2.9.2.4 Implementation Identifying Information

The implementation information for the Print SCU AE is:

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.392.200036.9116.6.18.1000.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>TM_UL_DCM_V1.0</td>
</tr>
</tbody>
</table>

4.2.9.3 Association Initiation Policy

4.2.9.3.1 Activity – Send Images & Print Management Information

4.2.9.3.1.1 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.

Figure 4.2-10
SEQUENCING OF ACTIVITY – SEND IMAGES & PRINT MANAGEMENT INFORMATION
A typical sequence of DIMSE messages sent over an association between the Print SCU AE and a Printer is illustrated in the Figure above:

1. The Print SCU AE opens an Association with the Printer.
2. N-GET on the Printer SOP Class is used to obtain current printer status information.
3. N-CREATE on the Film Session SOP Class creates a Film Session.
4. N-CREATE on the Film Box SOP Class creates a Film Box linked to the Film Session.
5. N-SET on the Image Box SOP Class transfers the contents of the film sheet to the printer.
6. N-ACTION on the Film Box SOP Class instructs the Printer to print the Film Box.
7. The Printer prints the requested number of film sheets.
8. The Printer asynchronously reports its status via N-EVENT-REPORT notification (Printer SOP Class). The printer can send this message at any time. The Print SCU AE does not require the N-EVENT-REPORT to be sent. The Print SCU AE is capable of receiving an N-EVENT-REPORT notification at any time during an association.
9. N-DELETE on the Film Session SOP Class deletes the complete Film Session SOP Instance hierarchy.
10. The Print SCU AE closes the Association with the Printer.

4.2.9.3.1.2 Proposed Presentation Contexts

The Print SCU AE is capable of proposing the Presentation Contexts shown in the table below:

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td>----------------------------</td>
</tr>
<tr>
<td>Basic Grayscale Print</td>
</tr>
<tr>
<td>Management Meta</td>
</tr>
<tr>
<td>Basic Color Print</td>
</tr>
<tr>
<td>Management Meta</td>
</tr>
</tbody>
</table>
4.2.9.3.1.3 Common SOP Specific Conformance for all Print SOP Classes

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

Table 4.2-79
PRINT COMMUNICATION FAILURE BEHAVIOR

<table>
<thead>
<tr>
<th>Exception</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timeout</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The reason is logged and the job failure is reported to the user via the job control application.</td>
</tr>
<tr>
<td>Association aborted by the SCP or network layers</td>
<td>The print-job is marked as failed. The reason is logged and the job failure is reported to the user via the job control application.</td>
</tr>
</tbody>
</table>

4.2.9.3.1.4 SOP Specific Conformance for Printer SOP Class

The Print SCU AE supports the following DIMSE operations and notifications for the Printer SOP Class:
— N-GET
— N-EVENT-REPORT

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

4.2.9.3.1.4.1 Printer SOP Class Operations (N-GET)

The Print SCU AE uses the Printer SOP Class N-GET operation to obtain information about the current printer status. The attributes obtained via N-GET are listed in the table below:

Table 4.2-80
PRINTER SOP CLASS N-GET REQUEST ATTRIBUTES

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printer Status</td>
<td>(2110,0010)</td>
<td>CS</td>
<td>Provided by Printer</td>
<td>ALWAYS</td>
<td>Printer</td>
</tr>
<tr>
<td>Printer Status Info</td>
<td>(2110,0020)</td>
<td>CS</td>
<td>Provided by Printer</td>
<td>ALWAYS</td>
<td>Printer</td>
</tr>
</tbody>
</table>

The Printer Status information is evaluated as follows:
1. If Printer status (2110,0010) is NORMAL, the print-job continues to be printed.
2. If Printer status (2110,0010) is FAILURE, the print-job is marked as failed. The contents of Printer Status Info (2110,0020) is logged and reported to the user via the job control application.
3. If Printer status (2110,0010) is WARNING, the print-job continues to be printed. The contents of Printer Status Info (2110,0020) is logged and reported to the user via the job control application.

The behavior of The Print SCU AE when encountering status codes in an N-GET response is summarized in the table below:

Table 4.2-81
PRINTER SOP CLASS N-GET RESPONSE STATUS HANDLING BEHAVIOR

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The request to get printer status information was success.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code.</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>
4.2.9.3.1.4.2 Printer SOP Class Notifications (N-EVENT-REPORT)

The Print SCU AE is capable of receiving an N-EVENT-REPORT request at any time during an association. The behavior of The Print SCU AE when receiving Event Types within the N-EVENT-REPORT is summarized in the table below:

Table 4.2-82
PRINTER SOP CLASS N-EVENT-REPORT BEHAVIOUR

<table>
<thead>
<tr>
<th>Event Type Name</th>
<th>Event Type ID</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>1</td>
<td>The print-job continues to be printed.</td>
</tr>
<tr>
<td>Warning</td>
<td>2</td>
<td>The print-job continues to be printed. The contents of Printer Status Info (2110,0020) is logged and reported to the user via the job-control application.</td>
</tr>
<tr>
<td>Failure</td>
<td>3</td>
<td>The print-job is marked as failed. The contents of Printer Status Info (2110,0020) is logged and reported to the user via the job-control application.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>An invalid Event Type ID will cause a status code of 0113H to be returned in an N-EVENT-REPORT response.</td>
</tr>
</tbody>
</table>

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

Table 4.2-83
PRINTER SOP CLASS N-EVENT-REPORT RESPONSE STATUS REASONS

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Reasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The notification event has been successfully received.</td>
</tr>
<tr>
<td>Failure</td>
<td>No Such Event Type</td>
<td>0113H</td>
<td>An invalid Event Type ID was supplied in the N-EVENT-REPORT request.</td>
</tr>
<tr>
<td>Failure</td>
<td>Processing Failure</td>
<td>0110H</td>
<td>An internal error occurred during processing of the N-EVENT-REPORT. A short description of the error will be returned in Error Comment (0000,0902).</td>
</tr>
</tbody>
</table>
4.2.9.3.1.5  SOP Specific Conformance for the Film Session SOP Class

The Print SCU 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.

4.2.9.3.1.5.1 Film Session SOP Class Operations (N-CREATE)

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

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Copies</td>
<td>(2000,0010)</td>
<td>IS</td>
<td>1..9</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Print Priority</td>
<td>(2000,0020)</td>
<td>CS</td>
<td>MED</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>Medium Type</td>
<td>(2000,0030)</td>
<td>CS</td>
<td>BLUE FILM, CLEAR FILM or PAPER</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Film Destination</td>
<td>(2000,0040)</td>
<td>CS</td>
<td>MAGAZINE or PROCESSOR</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
</tbody>
</table>

The behavior of The Print SCU AE when encountering status codes in an N-CREATE response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully.</td>
</tr>
<tr>
<td>Warning</td>
<td>Attribute Value</td>
<td>0116H</td>
<td>The N-CREATE operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Error</td>
<td>0107H</td>
<td>The N-CREATE operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code.</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>

4.2.9.3.1.5.2 Film Session SOP Class Operations (N-DELETE)

The behavior of The Print SCU AE when encountering status codes in an N-DELETE response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code.</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>
4.2.9.3.1.6 **SOP Specific Conformance for the Film Box SOP Class**

The Print SCU 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.

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

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

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Display Format</td>
<td>(2010,0010)</td>
<td>CS</td>
<td>STANDARD\1,1</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Referenced Film Session Sequence</td>
<td>(2010,0500)</td>
<td>SQ</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>UI</td>
<td>1.2.840.10008.5.1.1.1</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>UI</td>
<td>From created Film Session SOP Instance</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>Film Orientation</td>
<td>(2010,0040)</td>
<td>CS</td>
<td>PORTRAIT or LANDSCAPE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Film Size ID</td>
<td>(2010,0050)</td>
<td>CS</td>
<td>8INX10IN, 8_5INX11IN, 10INX12IN, 10INX14IN, 11INX14IN, 14INX14IN, 14INX17IN, 11INX17IN, 24CMX24CM, 24CMX30CM, A4 or A3</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Magnification Type</td>
<td>(2010,0060)</td>
<td>CS</td>
<td>REPlicate, BILINEAR, CUBIC or NONE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Smoothing Type</td>
<td>(2010,0080)</td>
<td>CS</td>
<td></td>
<td>ANAP</td>
<td>USER</td>
</tr>
<tr>
<td>Border Density</td>
<td>(2010,0100)</td>
<td>CS</td>
<td>BLACK or WHITE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Empty Image Density</td>
<td>(2010,0110)</td>
<td>CS</td>
<td>BLACK or WHITE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Min Density</td>
<td>(2010,0120)</td>
<td>US</td>
<td>1.. 500</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Max Density</td>
<td>(2010,0130)</td>
<td>US</td>
<td>1.. 500</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Trim</td>
<td>(2010,0140)</td>
<td>CS</td>
<td>YES or NO</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Configuration Information</td>
<td>(2010,0150)</td>
<td>ST</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

The behavior of the Print SCU AE when encountering status codes in an N-CREATE response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully.</td>
</tr>
<tr>
<td>Warning</td>
<td>Requested Min Density or Max Density outside of printer's operating range</td>
<td>B605H</td>
<td>The N-CREATE operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
</tbody>
</table>
4.2.9.3.1.6.2 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 Action Reply argument in an N-ACTION response is not evaluated.

The behavior of the Print SCU AE when encountering status codes in a N-ACTION response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully. The film has been accepted for printing.</td>
</tr>
<tr>
<td>Warning</td>
<td>Film Box SOP Instance hierarchy does not contain Image Box SOP Instances (empty page)</td>
<td>B603H</td>
<td>The N-ACTION operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size is larger than Image Box size. The image has been demagnified.</td>
<td>B604H</td>
<td>The N-ACTION operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size is larger than Image Box size. The image has been cropped to fit.</td>
<td>B609H</td>
<td>The N-ACTION operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.</td>
<td>B60AH</td>
<td>The N-ACTION operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Failure</td>
<td>Unable to create Print Job SOP Instance; print queue is full.</td>
<td>C602</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
<tr>
<td>Failure</td>
<td>Image size is larger than Image Box size.</td>
<td>C603</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
<tr>
<td>Failure</td>
<td>Combined Print Image Size is larger than Image Box size.</td>
<td>C613</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>

* Any other status code. The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
4.2.9.3.1.7 SOP Specific Conformance for the Grayscale Image Box SOP Class

The Print SCU AE supports the following DIMSE operations for the Grayscale Image Box SOP Class:
— N-SET

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

4.2.9.3.1.7.1 Grayscale Image Box SOP Class Operations (N-SET)

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

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Position</td>
<td>(2020,0010)</td>
<td>US</td>
<td>1</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>Magnification Type</td>
<td>(2010,0060)</td>
<td>CS</td>
<td>REPLICATE, BILINEAR, CUBIC or NONE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Smoothing Type</td>
<td>(2010,0080)</td>
<td>CS</td>
<td>ANAP</td>
<td></td>
<td>USER</td>
</tr>
<tr>
<td>Basic Grayscale Image Sequence</td>
<td>(2020,0110)</td>
<td>SQ</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Samples Per Pixel</td>
<td>(0028,0002)</td>
<td>US</td>
<td>1</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Photometric Interpretation</td>
<td>(0028,0004)</td>
<td>CS</td>
<td>MONOCHROME2</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Rows</td>
<td>(0028,0010)</td>
<td>US</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Columns</td>
<td>(0028,0011)</td>
<td>US</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Bits Allocated</td>
<td>(0028,0100)</td>
<td>US</td>
<td>8</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Bits Stored</td>
<td>(0028,0101)</td>
<td>US</td>
<td>8</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;High Bit</td>
<td>(0028,0102)</td>
<td>US</td>
<td>7</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Pixel Representation</td>
<td>(0028,0103)</td>
<td>US</td>
<td>0</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Pixel Data</td>
<td>(7FE0,0010)</td>
<td>OB</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
</tbody>
</table>
The behavior of the Print SCU AE when encountering status codes in an N-SET response is summarized in the table below:

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Status Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The SCP has completed the operation successfully. Image successfully stored in Image Box.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size is larger than Image Box size. The image has been demagnified.</td>
<td>B604H</td>
<td>The N-SET operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Requested Min Density or Max Density outside of printer's operating range.</td>
<td>B605H</td>
<td>The N-SET operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size is larger than Image Box size. The image has been cropped to fit.</td>
<td>B609H</td>
<td>The N-SET operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Warning</td>
<td>Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.</td>
<td>B60AH</td>
<td>The N-SET operation is considered successful if it is configured that the status would be considered successful.</td>
</tr>
<tr>
<td>Failure</td>
<td>Image size is larger than Image Box size.</td>
<td>C603</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
<tr>
<td>Failure</td>
<td>Insufficient memory in printer to store the image.</td>
<td>C605</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
<tr>
<td>Failure</td>
<td>Combined Print Image Size is larger than Image Box size.</td>
<td>C613</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code.</td>
<td>The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.</td>
</tr>
</tbody>
</table>
4.2.9.3.1.8 SOP Specific Conformance for the Color Image Box SOP Class

The Print SCU AE supports the following DIMSE operations for the Color Image Box SOP Class:

— N-SET

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

4.2.9.3.1.8.1 Color Image Box SOP Class Operations (N-SET)

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

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Position</td>
<td>(2020,0010)</td>
<td>US</td>
<td>1</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>Magnification Type</td>
<td>(2010,0060)</td>
<td>CS</td>
<td>REPLICATE, BILINEAR, CUBIC or NONE</td>
<td>ALWAYS</td>
<td>USER</td>
</tr>
<tr>
<td>Smoothing Type</td>
<td>(2010,0080)</td>
<td>CS</td>
<td></td>
<td></td>
<td>USER</td>
</tr>
<tr>
<td>Basic Grayscale Image Sequence</td>
<td>(2020,0110)</td>
<td>SQ</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Samples Per Pixel</td>
<td>(0028,0002)</td>
<td>US</td>
<td>3</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Photometric Interpretation</td>
<td>(0028,0004)</td>
<td>CS</td>
<td>RGB</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Planar Configuration</td>
<td>(0028,0006)</td>
<td>US</td>
<td>0x0001</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Rows</td>
<td>(0028,0010)</td>
<td>US</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Columns</td>
<td>(0028,0011)</td>
<td>US</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Bits Allocated</td>
<td>(0028,0100)</td>
<td>US</td>
<td>8</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Bits Stored</td>
<td>(0028,0101)</td>
<td>US</td>
<td>8</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;High Bit</td>
<td>(0028,0102)</td>
<td>US</td>
<td>7</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Pixel Representation</td>
<td>(0028,0103)</td>
<td>US</td>
<td>0</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Pixel Data</td>
<td>(7FE0,0010)</td>
<td>OB</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

The behavior of the Print SCU AE when encountering status codes in an N-SET response is summarized in Table 4.2-91.

4.2.9.4 Association Acceptance Policy

The Print SCU AE does not accept associations.
4.3 NETWORK INTERFACES

4.3.1 Physical Network Interface
This product supports wired and wireless network interfaces as follows:

Table 4.3-1

<table>
<thead>
<tr>
<th>SUPPORTED PHYSICAL NETWORK INTERFACES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet 10/100/1000baseT</td>
</tr>
<tr>
<td>IEEE 802.11b/a/g/n/ac (option)</td>
</tr>
</tbody>
</table>

Each of the network adapters works exclusively, and thus the user must select either WIRED or WIRELESS.

4.3.2 Additional Protocols
DHCP can be used to obtain TCP/IP network configuration information (e.g., own IP address, subnet mask, default gateway, DNS server, etc).
DNS can be used for address resolution.
NTP can be used to synchronize the system clock with a time server.
WPA2-Personal can be used for wireless network security in conjunction with a pre-shared key.
WPA2-Enterprise can be used for wireless network security in conjunction with an authentication server.

4.3.3 IPv4 and IPv6 Support
This product only supports IPv4 connections.
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 service tool.

<table>
<thead>
<tr>
<th>Application Entity</th>
<th>Default AE Title</th>
<th>Default TCP/IP Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage SCU</td>
<td>DICOM_LOCAL_SCU</td>
<td>104 or 11600 (Storage Commitment SCU Only)</td>
</tr>
<tr>
<td>Storage Commitment SCU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Query/Retrieve SCU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MWM SCU</td>
<td>MWMSCU_AE</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>MPPS SCU</td>
<td>MPPSSCU_AE</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Print SCU</td>
<td>PrintSCU_AE</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Verification SCU</td>
<td>VERIFY_AETITLE</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Storage SCP</td>
<td>DICOM_LOCAL_SCP</td>
<td>104 or 11600</td>
</tr>
<tr>
<td>Verification SCP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Port 11600 is only available if the user has configured the following SOP Classes for DICOM SR: Basic Text SR Storage, Comprehensive SR Storage or Toshiba US Private Data Storage (see Table 4.2-70).

The default character repertoire excluding the highlighted characters can be used for the AE Titles:

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Hex</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0x00</td>
<td>LF</td>
</tr>
<tr>
<td>1</td>
<td>0x01</td>
<td>FF</td>
</tr>
<tr>
<td>2</td>
<td>0x02</td>
<td>CR</td>
</tr>
<tr>
<td>3</td>
<td>0x03</td>
<td>ESC</td>
</tr>
<tr>
<td>4</td>
<td>0x04</td>
<td>@</td>
</tr>
<tr>
<td>5</td>
<td>0x05</td>
<td>A</td>
</tr>
<tr>
<td>6</td>
<td>0x06</td>
<td>B</td>
</tr>
<tr>
<td>7</td>
<td>0x07</td>
<td>C</td>
</tr>
<tr>
<td>8</td>
<td>0x08</td>
<td>D</td>
</tr>
<tr>
<td>9</td>
<td>0x09</td>
<td>E</td>
</tr>
<tr>
<td>10</td>
<td>0x0A</td>
<td>F</td>
</tr>
<tr>
<td>11</td>
<td>0x0B</td>
<td>G</td>
</tr>
<tr>
<td>12</td>
<td>0x0C</td>
<td>H</td>
</tr>
<tr>
<td>13</td>
<td>0x0D</td>
<td>I</td>
</tr>
<tr>
<td>14</td>
<td>0x0E</td>
<td>J</td>
</tr>
<tr>
<td>15</td>
<td>0x0F</td>
<td>K</td>
</tr>
<tr>
<td>16</td>
<td>0x10</td>
<td>L</td>
</tr>
<tr>
<td>17</td>
<td>0x11</td>
<td>M</td>
</tr>
<tr>
<td>18</td>
<td>0x12</td>
<td>N</td>
</tr>
<tr>
<td>19</td>
<td>0x13</td>
<td>O</td>
</tr>
<tr>
<td>20</td>
<td>0x14</td>
<td>P</td>
</tr>
<tr>
<td>21</td>
<td>0x15</td>
<td>Q</td>
</tr>
<tr>
<td>22</td>
<td>0x16</td>
<td>R</td>
</tr>
<tr>
<td>23</td>
<td>0x17</td>
<td>S</td>
</tr>
<tr>
<td>24</td>
<td>0x18</td>
<td>T</td>
</tr>
<tr>
<td>25</td>
<td>0x19</td>
<td>U</td>
</tr>
<tr>
<td>26</td>
<td>0x1A</td>
<td>V</td>
</tr>
<tr>
<td>27</td>
<td>0x1B</td>
<td>W</td>
</tr>
<tr>
<td>28</td>
<td>0x1C</td>
<td>X</td>
</tr>
<tr>
<td>29</td>
<td>0x1D</td>
<td>Y</td>
</tr>
<tr>
<td>30</td>
<td>0x1E</td>
<td>Z</td>
</tr>
<tr>
<td>31</td>
<td>0x1F</td>
<td>]</td>
</tr>
<tr>
<td>32</td>
<td>0x20</td>
<td>^</td>
</tr>
<tr>
<td>33</td>
<td>0x21</td>
<td>_</td>
</tr>
<tr>
<td>34</td>
<td>0x22</td>
<td>`</td>
</tr>
<tr>
<td>35</td>
<td>0x23</td>
<td>a</td>
</tr>
<tr>
<td>36</td>
<td>0x24</td>
<td>b</td>
</tr>
<tr>
<td>37</td>
<td>0x25</td>
<td>c</td>
</tr>
<tr>
<td>38</td>
<td>0x26</td>
<td>d</td>
</tr>
<tr>
<td>39</td>
<td>0x27</td>
<td>e</td>
</tr>
<tr>
<td>40</td>
<td>0x28</td>
<td>f</td>
</tr>
<tr>
<td>41</td>
<td>0x29</td>
<td>g</td>
</tr>
<tr>
<td>42</td>
<td>0x2A</td>
<td>h</td>
</tr>
<tr>
<td>43</td>
<td>0x2B</td>
<td>i</td>
</tr>
<tr>
<td>44</td>
<td>0x2C</td>
<td>j</td>
</tr>
<tr>
<td>45</td>
<td>0x2D</td>
<td>k</td>
</tr>
<tr>
<td>46</td>
<td>0x2E</td>
<td>l</td>
</tr>
<tr>
<td>47</td>
<td>0x2F</td>
<td>m</td>
</tr>
<tr>
<td>48</td>
<td>0x30</td>
<td>n</td>
</tr>
<tr>
<td>49</td>
<td>0x31</td>
<td>o</td>
</tr>
<tr>
<td>50</td>
<td>0x32</td>
<td>p</td>
</tr>
<tr>
<td>51</td>
<td>0x33</td>
<td>q</td>
</tr>
<tr>
<td>52</td>
<td>0x34</td>
<td>r</td>
</tr>
<tr>
<td>53</td>
<td>0x35</td>
<td>s</td>
</tr>
<tr>
<td>54</td>
<td>0x36</td>
<td>t</td>
</tr>
<tr>
<td>55</td>
<td>0x37</td>
<td>u</td>
</tr>
<tr>
<td>56</td>
<td>0x38</td>
<td>v</td>
</tr>
<tr>
<td>57</td>
<td>0x39</td>
<td>w</td>
</tr>
<tr>
<td>58</td>
<td>0x3A</td>
<td>x</td>
</tr>
<tr>
<td>59</td>
<td>0x3B</td>
<td>y</td>
</tr>
<tr>
<td>60</td>
<td>0x3C</td>
<td>z</td>
</tr>
<tr>
<td>61</td>
<td>0x3D</td>
<td>{</td>
</tr>
<tr>
<td>62</td>
<td>0x3E</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>0x3F</td>
<td>~</td>
</tr>
</tbody>
</table>

4.4.1.2 Remote AE Title/Presentation Address Mapping

The AE Titles, host names and port numbers of remote applications are configured using the service tool. The character repertoire of the AE Titles is listed in Table 4.4-2.
4.4.2 Parameters
A large number of parameters related to acquisition and general operation can be configured using the service tool. The table below only shows those configuration parameters relevant to DICOM communication. See the Product’s Service Manual for details on general configuration capabilities.

Table 4.4-3
CONFIGURATION PARAMETERS TABLE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Configurable (Yes/No)</th>
<th>Default Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Parameters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum PDU send/receive size</td>
<td>Yes [2048-1048576]</td>
<td>32768 bytes</td>
</tr>
<tr>
<td>Time-out waiting for an acceptance or rejection response to an association request (Application Level Timeout)</td>
<td>Yes [1-9999999]</td>
<td>30 sec</td>
</tr>
<tr>
<td>Time-out waiting for a response to an association release request (Application Level Timeout)</td>
<td>Yes [1-9999999]</td>
<td>30 sec</td>
</tr>
<tr>
<td>Time-out waiting for completion of a TCP/IP connect request (Low-level timeout)</td>
<td>Yes [1-9999999]</td>
<td>30 sec</td>
</tr>
<tr>
<td>Time-out awaiting a response to a DIMSE request (Low-Level Timeout)</td>
<td>Yes [1-9999999]</td>
<td>30 sec</td>
</tr>
<tr>
<td>Time-out for waiting for data between TCP/IP-packets (Low Level Timeout)</td>
<td>Yes [1-9999999]</td>
<td>30 sec</td>
</tr>
<tr>
<td><strong>Storage SCU Parameters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum number of simultaneously initiated associations by the Storage SCU AE</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>Number of times a failed send job may be retried</td>
<td>No</td>
<td>Forever, until the job succeeds or user cancels it.</td>
</tr>
<tr>
<td><strong>Storage Commitment SCU Parameters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum number of simultaneously initiated associations by the Storage Commitment SCU AE</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>Maximum number of simultaneously accepted associations by the Storage Commitment SCU AE</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>Time-out waiting for a Storage Commitment Notification (maximum duration of applicability for a Storage Commitment Transaction UID)</td>
<td>Yes [1-9999999](msec, sec, min, hour, day, month or year)</td>
<td>180 sec</td>
</tr>
<tr>
<td>Delay association release after sending a storage commitment request (wait for a storage commitment notification over the same association)</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td><strong>Modality Worklist SCU Parameters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum number of simultaneously initiated associations by the MWM SCU AE</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Maximum number of worklist items</td>
<td>Yes [1-99999]</td>
<td>200</td>
</tr>
<tr>
<td>Query worklist for specific Scheduled Station AE Title</td>
<td>Yes</td>
<td>MWMSCU_AE</td>
</tr>
<tr>
<td>Query worklist for specific Modality</td>
<td>Yes</td>
<td>US</td>
</tr>
<tr>
<td><strong>MPPS SCU Parameters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q/R SCU Parameters</td>
<td>Maximum number of simultaneously initiated associations by the Q/R SCU AE</td>
<td>No</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------------------------------------------------</td>
<td>----</td>
</tr>
<tr>
<td></td>
<td>Maximum number of matching entries</td>
<td>No</td>
</tr>
<tr>
<td>Storage SCP Parameters</td>
<td>Maximum number of simultaneously initiated associations by the Storage SCP AE</td>
<td>No</td>
</tr>
<tr>
<td>Print SCU Parameters</td>
<td>Maximum number of simultaneously initiated associations by the Print SCU AE</td>
<td>No</td>
</tr>
</tbody>
</table>
5. MEDIA INTERCHANGE

5.1 IMPLEMENTATION MODEL

5.1.1 Application Data Flow

![Application Data Flow Diagram](image)

Figure 5.1-1

APPLICATION DATA FLOW DIAGRAM FOR MEDIA STORAGE

- The Offline-Media AE exports instances to a CD-R, DVD+R or USB Storage medium. It is associated with the local real-world activity "Export Instances" performed upon user request.
- The Offline-Media AE imports instances from a CD-R, DVD+R or USB Storage medium. It is associated with the local real-world activity "Import Instances" performed upon user request.
- The Offline-Media AE updates instances from a USB Storage medium. It is associated with the local real-world activity "Add Instances" performed upon user request.

5.1.2 Functional Definition of AEs

5.1.2.1 Functional Definition of Offline-Media AE

The Offline-Media AE is performed upon user request for selected instances to/from an offline DICOM CD-R, DVD+R or USB medium. It therefore performs the following tasks:

Export:
- Builds DICOM Information Objects.
- Creates a DICOMDIR file that represents the contents of the DICOM Information Objects to be recorded.
- Records DICOM Information Objects and the DICOMDIR file to the CD-R, DVD+R or USB medium.

Import:
- Reads the DICOMDIR file that represents the contents of the data as recorded.
- Displays the ordered list of instances, identifying information.
- Loads the selected instances from the CD-R, DVD+R or USB medium and displays them on the screen.

Addition:
- Reads a File-set of the USB medium and writes it to the local storage device.
- Adds the instances to the File-set, then writes it to the medium.
- Modifies the DICOMDIR file.

Note: The Offline-Media AE can update files created by the product itself.
5.1.3 Sequencing of Real-World Activities

5.1.3.1 Activity – Export Instances
Operator requests to create new File-set(s) onto a new CD-R, DVD+R or USB medium. The requests are placed in a queue and are executed in the background.

The operations for "Export Instances" are described below:

Step-1: Select the instances on the local storage device to be created to the medium.
Step-2: Request to copy to the medium.

5.1.3.2 Activity – Import Instances
Operator requests to retrieve File-set(s) on the CD-R, DVD+R or USB medium. The requests are placed in a queue and are executed in the background.

The operations for "Import Instances" are described below:

Step-1: Select the instances on the medium to be retrieved to the local storage device.
Step-2: Request to copy to the local storage device.

5.1.3.3 Activity – Add Instances
Operator requests to add new objects to an already existing File-set on the USB medium. The requests are placed in a queue and are executed in the background.

The operations for "Add Instances" are described below:

Step-1: Select the instances on the local storage device to be added to the medium.
Step-2: Request to copy to the medium.

5.1.4 File Meta Information for Implementation Class and Version
The implementation information written to the File Meta Header in each file is:

<table>
<thead>
<tr>
<th>DICOM IMPLEMENTATION CLASS AND VERSION FOR MEDIA STORAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Meta Information Version</td>
</tr>
<tr>
<td>Implementation Class UID</td>
</tr>
<tr>
<td>Implementation Version Name</td>
</tr>
</tbody>
</table>
5.2 AE SPECIFICATIONS

5.2.1 Offline-Media AE Specification

The Offline-Media AE provides standard conformance to the DICOM Interchange Option of the Media Storage Service Class. The Application Profiles and roles are listed below:

<table>
<thead>
<tr>
<th>Application Profiles Supported</th>
<th>Real World Activity</th>
<th>Role</th>
<th>SC Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG-GEN-CD1, AUG-GEN-DVD1, AUG-GEN-USB1</td>
<td>Export Instances</td>
<td>FSC</td>
<td>Interchange</td>
</tr>
<tr>
<td>AUG-GEN-CD1, AUG-GEN-DVD1, AUG-GEN-USB1, AUG-GEN-CD2, AUG-GEN-DVD2, AUG-GEN-USB2</td>
<td>Import Instances</td>
<td>FSR</td>
<td>Interchange</td>
</tr>
<tr>
<td>AUG-GEN-USB1</td>
<td>Add Instances</td>
<td>FSU</td>
<td>Interchange</td>
</tr>
</tbody>
</table>

5.2.1.1 File Meta Information for the Application Entity

The Source Application Entity Title is the local AE title of Storage SCP.

5.2.1.2 Real-World Activities

5.2.1.2.1 Activity – Export Instances

The Offline-Media AE acts as an FSC using the interchange option when requested to export SOP Instances from the local database to a CD-R, DVD+R or USB medium.

5.2.1.2.1.1 Media Storage Application Profiles

The Offline-Media AE supports the AUG-GEN-CD1, AUG-GEN-DVD1 and AUG-GEN-USB1 Application Profiles.

5.2.1.2.1.1 Options

The Offline-Media AE supports the SOP Classes and Transfer Syntaxes listed in Table 5.3-1.

5.2.1.2.2 Activity – Import Instances

The Offline-Media AE acts as an FSR using the interchange option when requested to import SOP Instances from a CD-R, DVD+R or USB medium to the local database.

5.2.1.2.2.1 Media Storage Application Profiles

The Offline-Media AE supports the AUG-GEN-CD1, AUG-GEN-DVD1, AUG-GEN-USB1, AUG-GEN-CD2, AUG-GEN-DVD2 and AUG-GEN-USB2 Application Profiles.

5.2.1.2.2.1 Options

The Offline-Media AE supports the SOP Classes and Transfer Syntaxes listed in Table 5.3-1 and Table 5.3-2.
5.2.1.2.3 Activity – Add Instances
The Offline-Media AE acts as an FSU using the interchange option when requested to add SOP Instances from the local database to a USB medium.

5.2.1.2.3.1 Media Storage Application Profiles
The Offline-Media AE supports the AUG-GEN-USB1 Application Profiles.

5.2.1.2.3.1.1 Options
The Offline-Media AE supports the SOP Classes and Transfer Syntaxes listed in Table 5.3-1.

5.3 AUGMENTED AND PRIVATE APPLICATION PROFILES

5.3.1 Augmented Application Profiles

5.3.1.1 Augmented Application Profiles
– AUG-GEN-CD1, AUG-GEN-DVD1, AUG-GEN-USB1, AUG-GEN-CD2, AUG-GEN-DVD2 and AUG-GEN-USB2

5.3.1.1.1 SOP Class Augmentations
The Augmented Application Profiles support the following SOP Classes and Transfer Syntaxes:

<table>
<thead>
<tr>
<th>Information Object Definition</th>
<th>SOP Class UID</th>
<th>Transfer Syntax</th>
<th>Transfer Syntax UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICOM Media Storage Directory</td>
<td>1.2.840.10008.1.3.10</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td>Secondary Capture Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.7</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossy¹</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless²</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.6.1</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossy¹</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless²</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.3.1</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossy¹</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless²</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.22</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
</tbody>
</table>

*¹ JPEG Baseline (Process 1)
*² JPEG Lossless, Non-Hierarchical, First-OrderPrediction (Process 14 [Selection Value 1])
**Table 5.3-2**

SOP CLASS AUGMENTATIONS FOR AUG-GEN-CD2, AUG-GEN-DVD2 AND AUG-GEN-USB2

<table>
<thead>
<tr>
<th>Information Object Definition</th>
<th>SOP Class UID</th>
<th>Transfer Syntax</th>
<th>Transfer Syntax UID</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICOM Media Storage Directory</td>
<td>1.2.840.10008.1.3.10</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td>Secondary Capture Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.7</td>
<td>JPEG Lossy(^1)</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless(^2)</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Ultrasound Image Storage</td>
<td>1.2.840.10008.5.1.4.1.6.1</td>
<td>JPEG Lossy(^1)</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless(^2)</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Ultrasound Multi-frame Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.3.1</td>
<td>Explicit VR Little Endian</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossy(^1)</td>
<td>1.2.840.10008.1.2.4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JPEG Lossless(^2)</td>
<td>1.2.840.10008.1.2.4.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RLE Lossless</td>
<td>1.2.840.10008.1.2.5</td>
</tr>
<tr>
<td>Enhanced SR Storage</td>
<td>1.2.840.10008.5.1.4.1.1.88.22</td>
<td>JPEG Baseline (Process 1)</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td>CT Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.2</td>
<td>JPEG Baseline (Process 1)</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
<tr>
<td>MR Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.4</td>
<td>JPEG Baseline (Process 1)</td>
<td>1.2.840.10008.1.2.1</td>
</tr>
</tbody>
</table>

*1 JPEG Baseline (Process 1)
*2 JPEG Lossless, Non-Hierarchical, First-OrderPrediction (Process 14 [Selection Value 1])

### 5.3.1.2 Directory Augmentations

Not applicable.

### 5.3.1.3 Other Augmentations

Not applicable.

### 5.3.2 Private Application Profiles

Not applicable.

### 5.4 MEDIA CONFIGURATION

Not applicable.
6. SUPPORT OF CHARACTER SETS

This product supports the following character sets:

- ISO-IR 6 (default) ISO 646
- ISO-IR 100 (Latin alphabet No.1) Supplementary set of ISO 8859
- ISO-IR 144 (Cyrillic) Supplementary set of ISO 8859

Notes: If the Storage SCP AE receives instances that contain characters from unsupported character sets, it will respond with "Cannot Understand" to the C-STORE request.
If the MWM SCU AE receives worklist items that contain characters from unsupported character sets, it may abort the association using A-ABORT.
7. SECURITY

This product does not support any specific security measures. It is assumed that the product is used within a secured environment. It is assumed that a secured environment includes at a minimum:

a. Firewall or router protections to ensure that only approved external hosts have network access to the product.

b. Firewall or router protections to ensure that the product only has network access to approved external hosts and services.

c. Any communication with external hosts and services outside the locally secured environment use appropriate secure network channels (e.g. such as a Virtual Private Network (VPN))

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

8.1  IOD CONTENTS

8.1.1  Created SOP Instances

Table 8.1-1 specifies the attributes of a Secondary Capture Image transmitted by the Storage SCU AE.
Table 8.1-2 specifies the attributes of an Ultrasound Image transmitted by the Storage SCU AE.
Table 8.1-3 specifies the attributes of an Ultrasound Multi-frame Image transmitted by the Storage SCU AE.
Table 8.1-4 specifies the attributes of a Basic Text SR transmitted by the Storage SCU AE.
Table 8.1-5 specifies the attributes of an Enhanced SR transmitted by the Storage SCU AE.
Table 8.1-6 specifies the attributes of a Comprehensive SR transmitted by the Storage SCU AE.

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

- VNAP  Value Not Always Present (attribute sent zero length if no value is present)
- ANAP  Attribute Not Always Present
- ALWAYS  Always Present
- EMPTY  Attribute is sent without a value

The abbreviations used in the "Source" column:

- MWL  the attribute value source is 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 that used for Modality Performed Procedure Step
- CONFIG  the attribute value source is a configurable parameter
### 8.1.1.1 SC Image IOD

#### Table 8.1-1
IOD OF CREATED SC IMAGE SOP INSTANCES

<table>
<thead>
<tr>
<th>IE</th>
<th>Module</th>
<th>Reference</th>
<th>Presence of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Patient</td>
<td>Table 8.1-7</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Subject</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Study</td>
<td>General Study</td>
<td>Table 8.1-8</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Patient Study</td>
<td>Table 8.1-9</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Study</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Series</td>
<td>General Series</td>
<td>Table 8.1-10</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Series</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Equipment</td>
<td>General Equipment</td>
<td>Table 8.1-11</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>SC Equipment</td>
<td>Table 8.1-18</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Image</td>
<td>General Image</td>
<td>Table 8.1-12</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Image Pixel</td>
<td>Table 8.1-13</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>SC Image</td>
<td>N.A.</td>
<td>All attributes are optional and are not present</td>
</tr>
<tr>
<td></td>
<td>Overlay Plane</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>Modality LUT</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>VOI LUT</td>
<td>Table 8.1-15</td>
<td>Only if Photometric Interpretation (0028,0004) is MONOCHROME2</td>
</tr>
<tr>
<td></td>
<td>SOP Common</td>
<td>Table 8.1-16</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Private Application</td>
<td>Table 8.1-17</td>
<td>ALWAYS</td>
</tr>
</tbody>
</table>
### 8.1.1.2 US Image IOD

#### Table 8.1-2
**IOD OF CREATED US IMAGE SOP INSTANCES**

<table>
<thead>
<tr>
<th>IE</th>
<th>Module</th>
<th>Reference</th>
<th>Presence of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Patient</td>
<td>Table 8.1-7</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Subject</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Study</td>
<td>General Study</td>
<td>Table 8.1-8</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Patient Study</td>
<td>Table 8.1-9</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Study</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Series</td>
<td>General Series</td>
<td>Table 8.1-10</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Series</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Frame of Reference</td>
<td>Frame of Reference</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>Synchronization</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Equipment</td>
<td>General Equipment</td>
<td>Table 8.1-11</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Image</td>
<td>General Image</td>
<td>Table 8.1-12</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Image Pixel</td>
<td>Table 8.1-13</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Contrast/bolus</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>Palette Color Lookup Table</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>US Region Calibration</td>
<td>Table 8.1-14</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>US Image</td>
<td>Table 8.1-19</td>
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</tr>
<tr>
<td></td>
<td>Overlay Plane</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td></td>
<td>VOI LUT</td>
<td>Table 8.1-15</td>
<td>Only if Photometric Interpretation (0028,0004) is MONOCHROME2</td>
</tr>
<tr>
<td></td>
<td>SOP Common</td>
<td>Table 8.1-16</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Private Application</td>
<td>Table 8.1-17</td>
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</tr>
</tbody>
</table>
### 8.1.1.3 US Multi-frame Image IOD

#### Table 8.1-3
IOD OF CREATED US MULTI-FRAME IMAGE SOP INSTANCES

<table>
<thead>
<tr>
<th>IE</th>
<th>Module</th>
<th>Reference</th>
<th>Presence of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Patient</td>
<td>Table 8.1-7</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Clinical Trial Subject</td>
<td>--</td>
<td>Not Present</td>
</tr>
<tr>
<td>Study</td>
<td>General Study</td>
<td>Table 8.1-8</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
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**Table 8.1-4**
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### 8.1.1.7 Common Modules

#### PATIENT MODULE OF CREATED SOP Instances

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#### GENERAL STUDY MODULE OF CREATED SOP Instances

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### Table 8.1-9
PATIENT STUDY MODULE OF CREATED SOP INSTANCES

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### Table 8.1-10
GENERAL SERIES MODULE OF CREATED SOP INSTANCES

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<td>ALWAYS</td>
<td>MPPS</td>
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<td>Body Part Examined</td>
<td>(0018,0015)</td>
<td>CS</td>
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</tr>
<tr>
<td>Request Attributes Sequence</td>
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<td>SQ</td>
<td>ANAP</td>
<td>ANAP</td>
<td>MWL</td>
</tr>
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<td>&gt;Requested Procedure ID</td>
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<td>SH</td>
<td>ANAP</td>
<td>ANAP</td>
<td>MWL</td>
</tr>
<tr>
<td>&gt;Requested Procedure Description</td>
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<td>LO</td>
<td>ANAP</td>
<td>ANAP</td>
<td>MWL</td>
</tr>
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<td>&gt;Reason for the Scheduled Procedure</td>
<td>(0040,1002)</td>
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<td>EMPT</td>
<td>EMPT</td>
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<td>&gt;Scheduled Procedure Step ID</td>
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</tr>
<tr>
<td>&gt;Scheduled Procedure Step Description</td>
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<td>LO</td>
<td>See Table 4.2-44 Notes</td>
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<td>MWL</td>
</tr>
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<td>MWL</td>
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<td>Performed Procedure Step ID</td>
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<td>ANAP</td>
<td>ANAP</td>
<td>MWL/AUTO</td>
</tr>
<tr>
<td>Performed Procedure Step Start Date</td>
<td>(0040,0244)</td>
<td>DA</td>
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<td>ANAP</td>
<td>AUTO</td>
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</tr>
<tr>
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<td>ANAP</td>
<td>ANAP</td>
<td>MWL</td>
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<td>&gt;Coding Scheme Designator</td>
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<td>(0008,0104)</td>
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Table 8.1-11
GENERAL EQUIPMENT MODULE OF CREATED SOP INSTANCES

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<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>(0008,0070)</td>
<td>LO</td>
<td>TOSHIBA_MEC_US</td>
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<td>AUTO</td>
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<tr>
<td>Institution Name</td>
<td>(0008,0080)</td>
<td>LO</td>
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<td>ALWAYS</td>
<td>CONFIG</td>
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<tr>
<td>Institution Address</td>
<td>(0008,0081)</td>
<td>ST</td>
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<td>ALWAYS</td>
<td>CONFIG</td>
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<td>Station Name</td>
<td>(0008,1010)</td>
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<td>CONFIG</td>
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### Table 8.1-12
**GENERAL IMAGE MODULE OF CREATED SOP INSTANCES**

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<th>Presence of Value</th>
<th>Source</th>
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<tr>
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<td>(0020,0013)</td>
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<td>1 or 3</td>
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<td>Patient Orientation</td>
<td>(0020,0020)</td>
<td>CS</td>
<td>YES or NO</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Content Date</td>
<td>(0008,0023)</td>
<td>DA</td>
<td>720 960 1024 1280</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
</tr>
<tr>
<td>Acquisition Date</td>
<td>(0008,0022)</td>
<td>DA</td>
<td>720 960 1024 1280</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
</tr>
<tr>
<td>Acquisition Time</td>
<td>(0008,0032)</td>
<td>TM</td>
<td>720 960 1024 1280</td>
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<td>AUTO</td>
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<td>Derivation Description</td>
<td>(0008,2111)</td>
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<td>AUTO</td>
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<tr>
<td>Image Comments</td>
<td>(0020,4000)</td>
<td>LT</td>
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<td>Burned In Annotation</td>
<td>(0028,0301)</td>
<td>CS</td>
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<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Lossy Image Compression Ratio</td>
<td>(0028,2112)</td>
<td>DS</td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
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<td><strong>Value 1:</strong> Pixel Data</td>
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<td>ANAP</td>
<td>AUTO</td>
</tr>
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<td>Characteristics</td>
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<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td><strong>Value 2:</strong> Patient Examination</td>
<td></td>
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<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Characteristics</td>
<td></td>
<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td><strong>Value 3:</strong> System Defined Term</td>
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<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
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<tr>
<td><strong>Value 4:</strong> Image Mode</td>
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<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
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<td>AUTO</td>
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<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Characteristics</td>
<td></td>
<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td><strong>Value 2:</strong> Patient Examination</td>
<td></td>
<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Characteristics</td>
<td></td>
<td></td>
<td>720 960 1024 1280</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td><strong>Value 3:</strong> System Defined Term</td>
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<td></td>
<td>720 960 1024 1280</td>
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<td>AUTO</td>
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<td><strong>Value 4:</strong> Image Mode</td>
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<td>720 960 1024 1280</td>
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<td>AUTO</td>
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<tr>
<td><strong>Planar Configuration</strong></td>
<td>(0028,0006)</td>
<td>US</td>
<td>0 or 1</td>
<td>ANAP</td>
<td>AUTO</td>
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### Table 8.1-13
**IMAGE PIXEL MODULE OF CREATED SOP INSTANCES**

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<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
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<tbody>
<tr>
<td>Samples per Pixel</td>
<td>(0028,0002)</td>
<td>US</td>
<td>1 or 3</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
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<tr>
<td>Photometric Interpretation</td>
<td>(0028,0004)</td>
<td>CS</td>
<td>RGB, MONOCROME2 or YBR_FULL_422</td>
<td>ALWAYS CONFIG</td>
<td>CONFIG</td>
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<tr>
<td>Planar Configuration</td>
<td>(0028,0006)</td>
<td>US</td>
<td>0 or 1</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
<tr>
<td>Rows</td>
<td>(0028,0010)</td>
<td>US</td>
<td>720 960 1024 1280</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
</tr>
<tr>
<td>Columns</td>
<td>(0028,0011)</td>
<td>US</td>
<td>720 960 1024 1280</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
</tr>
<tr>
<td>Bits Allocated</td>
<td>(0028,0100)</td>
<td>US</td>
<td>8</td>
<td>ALWAYS AUTO</td>
<td>AUTO</td>
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<td>Bits Stored</td>
<td>(0028,0101)</td>
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<td>High Bit</td>
<td>(0028,0102)</td>
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<td>AUTO</td>
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<td>Pixel Representation</td>
<td>(0028,0103)</td>
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<td>0</td>
<td>ALWAYS AUTO</td>
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## Table 8.1-14
**US REGION CALIBRATION MODULE OF CREATED SOP INSTANCES**

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<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
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<tbody>
<tr>
<td>Sequence of Ultrasound Regions</td>
<td>(0018,6011)</td>
<td>SQ</td>
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<td>AUTO</td>
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</tr>
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<td>&gt;Region Spatial Format</td>
<td>(0018,6012)</td>
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<td>ALWAYS</td>
<td>AUTO</td>
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<td>&gt;Region Data Type</td>
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<td>AUTO</td>
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<td>&gt;Region Flags</td>
<td>(0018,6016)</td>
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<td>ALWAYS</td>
<td>AUTO</td>
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</tr>
<tr>
<td>&gt;Region Location Min x0</td>
<td>(0018,6018)</td>
<td>UL</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<tr>
<td>&gt;Region Location Min y0</td>
<td>(0018,601A)</td>
<td>UL</td>
<td>ALWAYS</td>
<td>AUTO</td>
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</tr>
<tr>
<td>&gt;Region Location Max x1</td>
<td>(0018,601C)</td>
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<td>ALWAYS</td>
<td>AUTO</td>
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<tr>
<td>&gt;Region Location Max y1</td>
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<td>UL</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<td>&gt;Reference Pixel x0</td>
<td>(0018,6020)</td>
<td>SL</td>
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<td>&gt;Reference Pixel y0</td>
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<td>SL</td>
<td>ALWAYS</td>
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<td>&gt;Physical Units X Direction</td>
<td>(0018,6024)</td>
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<tr>
<td>&gt;Reference Pixel Physical Value Y</td>
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<tr>
<td>&gt;Physical Delta X</td>
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<td>FD</td>
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<tr>
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<td>&gt;Transducer Frequency</td>
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</tr>
<tr>
<td>&gt;Doppler Sample Volume X Position</td>
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<td>ANAP</td>
<td>AUTO</td>
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<tr>
<td>&gt;Doppler Sample Volume Y Position</td>
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<td>ANAP</td>
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<td>&gt;TM-Line Position x0</td>
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<td>ANAP</td>
<td>AUTO</td>
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</tr>
<tr>
<td>&gt;TM-Line Position y0</td>
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<td>ANAP</td>
<td>AUTO</td>
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<tr>
<td>&gt;TM-Line Position x1</td>
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<td>(0018,6042)</td>
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<td>ANAP</td>
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</table>

## Table 8.1-15
**VOI LUT MODULE OF CREATED SOP INSTANCES**

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<th>Presence of Value</th>
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### Table 8.1-16

**SOP COMMON MODULE OF CREATED SOP INSTANCES**

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<th>Value</th>
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<td>See Section 6</td>
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<td>AUTO</td>
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<td>Instance Creation Date</td>
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<td>ALWAYS</td>
<td>AUTO</td>
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<tr>
<td>Instance Creation Time</td>
<td>(0008,0013)</td>
<td>TM</td>
<td></td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>Instance Creator UID</td>
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<td>UI</td>
<td>1.2.392.200036.9116.6.18.xxx xxxx* (*8 digit number)</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>SOP Class UID</td>
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<td>UI</td>
<td>1.2.840.10008.5.1.4.1.1.7 for SC Image</td>
<td>ALWAYS</td>
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<td></td>
<td>1.2.840.10008.5.1.4.1.1.6.1 for US Image</td>
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<td>1.2.840.10008.5.1.4.1.1.3.1 for US Multi-frame Image</td>
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<td>1.2.840.10008.5.1.4.1.1.88.33 for Comprehensive SR</td>
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<td>1.2.392.200036.9116.7.8.1.1.1.1 for Toshiba US Private Data</td>
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<td>(0008,0018)</td>
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### Table 8.1-17

**PRIVATE APPLICATION MODULE OF CREATED SOP INSTANCES**

<table>
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<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
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<td>Private Creator</td>
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<td>Application Header Version</td>
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<td>AUTO</td>
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<td>Application Header Data</td>
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<td>OB</td>
<td></td>
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### 8.1.1.8 SC Image Modules

#### Table 8.1-18

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### 8.1.1.9 US Image Modules

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<td>AUTO</td>
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<td>AUTO</td>
<td>AUTO</td>
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<td>AUTO</td>
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### 8.1.1.10 US Multi-frame Image Modules

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### Table 8.1-21
**MULTI-FRAME MODULE OF CREATED US MULTI-FRAME IMAGE SOP INSTANCES**

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### Table 8.1-22
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### 8.1.1.11 Basic Text SR Modules

#### Table 8.1-23
**SR DOCUMENT SERIES MODULE OF CREATED BASIC TEXT SR SOP INSTANCES**

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#### Table 8.1-24
**SR DOCUMENT GENERAL MODULE OF CREATED BASIC TEXT SR SOP INSTANCES**

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### 8.1.1.12 Enhanced/Comprehensive SR Modules

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Heart Rate. SR Document content Module may have multiple measurement results, at that case, the heart rate value is set for the last measurement.
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- **CV**: Concept Code Sequence
- **CSD**: Coding Scheme Designator
- **CM**: Code Meaning
Figure 8.1-1

Echocardiography Procedure Report SR Document IOD Template Structure

*1 DTID (5202) Echo Section may be multiple depending on findings for instance Left Ventricle, Right Ventricle, Left Atrium, and so on.

*2 DT (125007, DCM, "Measurement Group") may be multiple depending on Toshiba Measurements Table 8.1-27 to 47.

*3 DTID (5203) Echo Measurement may be multiple depending on the number of measurement items.

Each "Meas.Label" means a unique identifier of measurement result on the Toshiba Ultrasound System. Some measurements may overlap a "Meas.Label". It means "Meas.Label" is unique within a measurement.
Table 8.1-29 to 49 shows the relationship between Toshiba unique identifiers "Meas.Label" and DICOM tags structures. Note: Meas.No, LV Parallel and Meas.Label are just for internal use, and those values are not output.

### Table 8.1-29

**Cardiac 2D-Mode LV measurement (MOD Simpson method)**

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Cardiac 2D-Mode LV measurement (Teichholz method)

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Cardiac 2D-Mode LV measurement (Cube method)

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Cardiac 2D-Mode LV measurement (Single plane method)

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Cardiac 2D-Mode LV measurement (Biplane method)

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Cardiac M-Mode LV measurement (Cube method)

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Cardiac Doppler-Mode Pulmonary vein blood flow waveform measurement

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Cardiac Doppler-Mode Tricuspid Valve measurement

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Cardiac Doppler-Mode Pulmonary Valve measurement
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### Table 8.1-46
Extra Measurements LV Mass AL (Area-Length)

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**Code Values and Meanings**

- **Artery of neck**: T-45005
- **Artery of Upper Extremity**: T-47020
- **Blood Vessel of Head**: T-40501
- **Artery of Lower Extremity**: T-47040
- **Vein of Lower Extremity**: T-49403
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Vascular Ultrasound Procedure Report SR Document IOD Template Structure

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*2 DT $AnatomyRatio DTID (300) Measurement may be multiple depending on the Toshiba measurement method.
*3 DTID (300) Measurement may be multiple depending on the number of measurement items.
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Child Containers are continuing depending on Concept DTID.
Figure 8.1-3
OB-GYN Ultrasound Procedure Report SR Document IOD Template Structure
(Figure 8.1-3 Continued)
CONTAINS
DTID (5012) Ovaries Section
DT(121070,DCM "Findings")

HAS CONCEPT MOD
EV(G-C0E3,SRT, "Finding Site")
DT(T-87000,SRT, "Ovary")

CONTAINS
DTID (5016) LWH Volume Group
EV(T-83000,SRT, "Uterus")

CONTAINS
DTID (300) Measurement
EV(11850-6,LN, "LeftOvaryLength")

CONTAINS
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EV(11857-0,LN, "LeftOvaryHeight")

CONTAINS
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EV(11841-4,LN, "RightOvaryLength")

CONTAINS
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EV(11858-8,LN, "RightOvaryHeight")

CONTAINS
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EV(12164-0,LN, "LeftOvaryVolume")

CONTAINS
DTID (300) Measurement
EV(11829-9,LN, "LeftOvaryWidth")

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CONTAINS
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CONTAINS
  DTID (5013) Follicles Section DT(121070,DCM "Findings")

HAS CONCEPT MOD
  EV(G-C0E3,SRT, "Finding Site")
  DT(T-87600,SRT, "Ovarian Follicle")

CONTAINS
  EV(11879-4,LN, "Number of Follicles in left Ovary")

CONTAINS
  DTID (300) Measurement

CONTAINS
  EV(11793-7,LN, "Follicle Diameter")

CONTAINS
  DCID (3627) Measurement

HAS CONCEPT MOD
  EV(G-A101,SRT, "Left")

CONTAINS
  DTID(5014) Follicle Measurement EV(125007,DCM, "Measurement Group")

CONTAINS
  DTID (300) Measurement

CONTAINS
  EV(11793-7, LN, "Follicle Diameter")

CONTAINS
  DCID (3627) Measurement
(Figure 8.1-3 Continued)
Table 8.1-53
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<td>End Diastolic Velocity</td>
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<td>Time averaged peak velocity</td>
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<td>SRT T-46600</td>
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<td>SRT T-46600</td>
<td>Renal Artery</td>
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<td>Peak Systolic Velocity</td>
<td>SRT G-A100 Right</td>
<td>SRT T-46600 Renal Artery</td>
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<td>Fetal Heart Rate</td>
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<td>0483</td>
<td>S (DV with Vel Trace)</td>
<td>LN 11726-7</td>
<td>Peak Systolic Velocity</td>
<td>TSBus 03350005</td>
<td>Ductus Venosus</td>
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<td>LN 11653-3</td>
<td>End Diastolic Velocity</td>
<td>TSBus 03350005</td>
<td>Ductus Venosus</td>
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<tr>
<td>0487</td>
<td>a (DV with Vel Trace)</td>
<td>TSBus 03350006</td>
<td>Peak velocity during atrial contraction</td>
<td>TSBus 03350005</td>
<td>Ductus Venosus</td>
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<tr>
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<td>LN 11692-1</td>
<td>Time averaged peak velocity</td>
<td>TSBus 03350005</td>
<td>Ductus Venosus</td>
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<td>0479</td>
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<td>PIV=(S-a)/Vm_peak</td>
<td>TSBus 03350005</td>
<td>Ductus Venosus</td>
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<td>0480</td>
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<td>0481</td>
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<td>TSBus 03350005</td>
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Table 8.1-57
SR DOCUMENT CONTENT MODULE OF CREATED ENHANCED/COMPREHENSIVE SR SOP INSTANCES FOR USER-DEFINED ABDOMINAL MEASUREMENTS

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<thead>
<tr>
<th>Attribute Name</th>
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<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
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<td>CONTAINER</td>
<td>ALWAYS</td>
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<td>&gt;Code Value</td>
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<td>125100 or 03600000</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<tr>
<td>&gt;Coding Scheme Designator</td>
<td>(0008,0102)</td>
<td>SH</td>
<td>DCM or TSBus</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<td>&gt;Code Meaning</td>
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<td>LO</td>
<td>&quot;Vascular Ultrasound Procedure Report&quot; or &quot;Radiology Procedure Report&quot;</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<td>Continuity of Content</td>
<td>(0040,A050)</td>
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<td>SEPARATE</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<td>SQ</td>
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<td>AUTO</td>
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<td>CS</td>
<td>DCMR</td>
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<td>5100 or 0360</td>
<td>ALWAYS</td>
<td>AUTO</td>
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<td>Content Sequence</td>
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<td>ALWAYS</td>
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<tr>
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<td>See Section 8.7.1 for TID 5100 and Section 8.7.2 for TID 0360</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>&gt;Include Document Relationship Macro</td>
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<td>CS</td>
<td>See Section 8.7.1 for TID 5100 and Section 8.7.2 for TID 0360</td>
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<td>AUTO</td>
</tr>
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<td>&gt;Include Document Content Macro</td>
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<td></td>
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<td>AUTO</td>
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8.1.1.13 Other Modules

The tables below show the attributes that extend the standard IODs of SC Image, US Image, US Multi-frame Image, Basic Text SR, Enhanced SR and Comprehensive SR.

**Table 8.1-58**
IMAGING SERVICE REQUEST MODULE OF CREATED SOP INSTANCES

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<th>Source</th>
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<td>MWL/AUTO</td>
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<tr>
<td>Requesting Service</td>
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<td>VNA/P</td>
<td>MWL/AUTO</td>
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**Table 8.1-59**
VISIT ADMISSION MODULE OF CREATED SOP INSTANCES

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<th>Presence of Value</th>
<th>Source</th>
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<tbody>
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<td>Admitting Diagnoses</td>
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<td>VNA/P</td>
<td>MWL/AUTO</td>
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**Table 8.1-60**
VISIT RELATIONSHIP MODULE OF CREATED SOP INSTANCES

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<th>Presence of Value</th>
<th>Source</th>
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<tr>
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<td>ANAP</td>
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<td>Sequence</td>
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<tr>
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<td>(0008,1150)</td>
<td>UI</td>
<td>ALWAYS</td>
<td>MWL</td>
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<td>UI</td>
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**Table 8.1-61**
PATIENT IDENTIFICATION MODULE OF CREATED SOP INSTANCES

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<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuer of Patient ID</td>
<td>(0010,0021)</td>
<td>LO</td>
<td>EMPTY</td>
<td>AUTO</td>
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<td>(0010,1000)</td>
<td>LO</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
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<td>(0010,1001)</td>
<td>PN</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
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<td>Patient’s Birth Name</td>
<td>(0010,1005)</td>
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<td>VNA/P</td>
<td>MWL/AUTO</td>
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<td>VNA/P</td>
<td>MWL/AUTO</td>
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<td>VNA/P</td>
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**Table 8.1-62**
PATIENT DEMOGRAPHIC MODULE OF CREATED SOP INSTANCES

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<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
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</thead>
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<tr>
<td>Occupation</td>
<td>(0010,2180)</td>
<td>SH</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Confidentiality Constraint on Patient Data Description</td>
<td>(0040,3001)</td>
<td>LO</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Patient’s Birth Time</td>
<td>(0010,0032)</td>
<td>TM</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Patient’s Address</td>
<td>(0010,1040)</td>
<td>LO</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Military Rank</td>
<td>(0010,1080)</td>
<td>LO</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Branch of Service</td>
<td>(0010,1081)</td>
<td>LO</td>
<td>VNA/P</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Tag</td>
<td>VR</td>
<td>Value</td>
<td>Presence of Value</td>
<td>Source</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------</td>
<td>----</td>
<td>---------</td>
<td>-------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Country of Residence</td>
<td>(0010,2150)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Region of Residence</td>
<td>(0010,2152)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Patient’s Telephone Numbers</td>
<td>(0010,2154)</td>
<td>SH</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Patient’s Religious Preference</td>
<td>(0010,21F0)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
</tbody>
</table>

Table 8.1-63

PATIENT MEDICAL MODULE OF CREATED SOP INSTANCES

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Alerts</td>
<td>(0010,2000)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Allergies</td>
<td>(0010,2110)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Smoking Status</td>
<td>(0010,21A0)</td>
<td>CS</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Additional Patient History</td>
<td>(0010,21B0)</td>
<td>LT</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Pregnancy Status</td>
<td>(0010,21C0)</td>
<td>US</td>
<td>ANAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Last Menstrual Date</td>
<td>(0010,21D0)</td>
<td>DA</td>
<td>EMPTY</td>
<td>AUTO</td>
<td></td>
</tr>
<tr>
<td>Special Needs</td>
<td>(0038,0050)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
<tr>
<td>Patient State</td>
<td>(0038,0500)</td>
<td>LO</td>
<td>VNAP</td>
<td>MWL/AUTO</td>
<td></td>
</tr>
</tbody>
</table>
8.1.2 Usage of Attributes from received IOD’s
No SOP Class specific fields are required.

8.1.3 Attribute Mapping
The tables below show the relationships between attributes received via Modality Worklist, stored in acquired images and communicated via MPPS.

The cell content conventions should be read as follows:
- **Copy**: The value will be copied from a corresponding source attribute of another DICOM object, as defined by the table column.
- **Copy from: <DICOM attribute>**: The source as specified in the referenced DICOM attribute will be used instead of using the DICOM attribute of the same row as the source.
- **Equal (internally generated)**: The value will be internally generated which may be used in more than one DICOM object.

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>Modality Worklist</th>
<th>Image IOD</th>
<th>MPPS IOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Instance UID</td>
<td>(0020,000D)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Referenced Study Sequence</td>
<td>(0008,1110)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Accession Number</td>
<td>(0008,0050)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Requested Procedure ID</td>
<td>(0040,1001)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Requested Procedure Description</td>
<td>(0032,1060)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Scheduled Procedure Step ID</td>
<td>(0040,0009)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Scheduled Procedure Step Description</td>
<td>(0040,0007)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Scheduled Protocol Code Sequence</td>
<td>(0040,0008)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Study Description</td>
<td>(0008,1030)</td>
<td>Source</td>
<td>Copy</td>
<td></td>
</tr>
<tr>
<td>Performed Procedure Step ID</td>
<td>(0040,0253)</td>
<td>-</td>
<td>Equal (internally generated).</td>
<td>Equal (internally generated).</td>
</tr>
<tr>
<td>Performed Procedure Step Start Date</td>
<td>(0040,0244)</td>
<td>-</td>
<td>Equal (internally generated).</td>
<td>Equal (internally generated).</td>
</tr>
</tbody>
</table>
### Performed Procedure Step

<table>
<thead>
<tr>
<th>Field</th>
<th>Tag</th>
<th>IOD</th>
<th>MPPS IOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Time</td>
<td>(0040,0245)</td>
<td>-</td>
<td>Equal (internally generated).</td>
</tr>
<tr>
<td>Procedure Step Description</td>
<td>(0040,0254)</td>
<td>-</td>
<td>Copy from: Study Description</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(0008,1030), Requested Procedure Description (0032,1060) or Scheduled Procedure Step Description (0040,0007). See Table 4.2-44 Notes.</td>
</tr>
<tr>
<td>Requested Procedure Code Sequence</td>
<td>(0032,1064)</td>
<td>Value will be used for Procedure Code Sequence as specified below.</td>
<td>-</td>
</tr>
<tr>
<td>Procedure Code Sequence</td>
<td>(0008,1032)</td>
<td>-</td>
<td>Copy from: Requested Procedure Code Sequence (0032,1064).</td>
</tr>
<tr>
<td>Referenced SOP Class UID</td>
<td>(0008,1150)</td>
<td>-</td>
<td>Equal (internally generated). See Notes</td>
</tr>
<tr>
<td>Referenced SOP Instance UID</td>
<td>(0008,1155)</td>
<td>Referenced PPS Sequence (0008,1111)</td>
<td>Equal to SOP Instance of the associated MPPS.</td>
</tr>
<tr>
<td>Scheduled Performing Physician’s Name</td>
<td>(0040,0006)</td>
<td>Value will be used for Performing Physician’s Name as specified below.</td>
<td>-</td>
</tr>
<tr>
<td>Performing Physician’s Name</td>
<td>(0008,1050)</td>
<td>-</td>
<td>Copy from: Scheduled Performing Physician’s Name (0040,0006).</td>
</tr>
<tr>
<td>Protocol Name</td>
<td>(0018,1030)</td>
<td>-</td>
<td>Copy from: Study Description (0008,1030).</td>
</tr>
</tbody>
</table>

### Notes:
In MPPS, SOP Class UID is sent in the Affected SOP Class UID (0000,0002) of the PPS N-CREATE message and in Requested SOP Class UID (0000,0003) for the PPS N-SET message.

In MPPS, SOP Instance UID is sent in the Affected SOP Instance UID (0000,1000) of the PPS N-CREATE message and in Requested SOP Instance UID (0000,1001) for the PPS N-SET message.

### Table 8.1-65
**UNSCHEDULED CASE - ATTRIBUTE MAPPING BETWEEN IMAGE AND MPPS**

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>Image IOD</th>
<th>MPPS IOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Instance UID</td>
<td>(0020,000D)</td>
<td>Equal (internally generated).</td>
<td>Equal (internally generated).</td>
</tr>
<tr>
<td>Referenced Study Sequence</td>
<td>(0008,1110)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Accession Number</td>
<td>(0008,0050)</td>
<td>Zero length</td>
<td>Zero length</td>
</tr>
<tr>
<td>Requested Procedure ID</td>
<td>(0040,1001)</td>
<td>Request Attributes Sequence (0040,0275)</td>
<td>Zero length</td>
</tr>
<tr>
<td>Requested Procedure Description</td>
<td>(0032,1060)</td>
<td></td>
<td>Zero length</td>
</tr>
</tbody>
</table>
### 8.1.4 Coerced/Modified Fields

Not applicable.
8.2 DATA DICTIONARY OF PRIVATE ATTRIBUTES
This product reserves private attribute values in the groups 0029 and 7015. The private attributes added to created SOP instances or directory records are listed in Table 8.1-17.

8.3 CODED TERMINOLOGY AND TEMPLATES
Not applicable.

8.4 GRAYSCALE IMAGE CONSISTENCY
Not applicable.

8.5 STANDARD EXTENDED/SPECIALIZED/PRIVATE SOP CLASSES
8.5.1 Standard Extended SOP Classes - US Image Storage and US Multi-frame Image Storage

Table 8.5-1
US IMAGE EXTENDED ATTRIBUTES

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Tag</th>
<th>VR</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel Spacing</td>
<td>(0028,0030)</td>
<td>DS</td>
<td>Pixel Spacing is only added if the user has configured this attribute to be included and the ultrasound image contains a 2D region. Pixel Spacing will enable measurements on DICOM viewers that do not support Ultrasound Region Calibration.</td>
<td>ANAP</td>
<td>AUTO</td>
</tr>
</tbody>
</table>

8.5.2 Private SOP Class - Toshiba US Private Data Storage

Table 8.5-2
IOD OF CREATED TOSHIBA US PRIVATE DATA SOP INSTANCES

<table>
<thead>
<tr>
<th>IE</th>
<th>Module</th>
<th>Reference</th>
<th>Presence of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Patient</td>
<td>Table 8.1-7</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Study</td>
<td>General Study</td>
<td>Table 8.1-8</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Patient Study</td>
<td>Table 8.1-9</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Series</td>
<td>General Series</td>
<td>Table 8.1-10</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Equipment</td>
<td>General Equipment</td>
<td>Table 8.1-11</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Image</td>
<td>General Image</td>
<td>Table 8.1-12</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>SOP Common</td>
<td>Table 8.1-16</td>
<td>ALWAYS</td>
</tr>
<tr>
<td></td>
<td>Private Application</td>
<td>Table 8.1-17</td>
<td>ALWAYS</td>
</tr>
</tbody>
</table>

8.6 PRIVATE TRANSFER SYNTAXES
Not applicable.
8.7 STANDARD EXTENDED AND PRIVATE TEMPLATES

8.7.1 Standard Extended Template - TID 5100 Vascular Ultrasound Procedure Report

This template extension is only available to user-defined Abdominal measurements. The user can select code sets from CID 0365 to be embedded in those measurements.

Figure 8.7-1
Vascular Ultrasound Procedure Report SR Document IOD Template Structure
<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>EV (125100, DCM, &quot;Vascular Ultrasound Procedure Report&quot;)</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>INCLUDE</td>
<td>DTID 1204 &quot;Language of Content Item and Descendants&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>&gt; HAS OBS CONTEXT</td>
<td>INCLUDE</td>
<td>DTID 1001 &quot;Observation Context&quot;</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5101 &quot;Vascular Patient Characteristics&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5102 &quot;Vascular Procedure Summary Section&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5103 &quot;Vascular Ultrasound Section&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td>$SectionScope = DT (T0360, TSBus, &quot;Anatomic Structures&quot;) $Anatomy = DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>32</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5103 &quot;Vascular Ultrasound Section&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td>$SectionScope = DT (T0360, TSBus, &quot;Anatomic Structures&quot;) $SectionLaterality = EV (G-A101, SRT, &quot;Left&quot;) $Anatomy = DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>33</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5103 &quot;Vascular Ultrasound Section&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td>$SectionScope = DT (T0360, TSBus, &quot;Anatomic Structures&quot;) $SectionLaterality = EV (G-A100, SRT, &quot;Right&quot;) $Anatomy = DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>34</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5103 &quot;Vascular Ultrasound Section&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td>$SectionScope = DT (T0360, TSBus, &quot;Anatomic Structures&quot;) $SectionLaterality = EV (G-A103, SRT, &quot;Unilateral&quot;) $Anatomy = DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
</tbody>
</table>
### Table 8.7-2
**TID 5103 VASCULAR ULTRASOUND SECTION**

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>DT (121070, DCM, &quot;Findings&quot;)</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (G-C0E3, SRT, &quot;Finding Site&quot;)</td>
<td>1</td>
<td>M</td>
<td></td>
<td>$SectionScope</td>
</tr>
<tr>
<td>3</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (G-C171, SRT, &quot;Laterality&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td>DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>4</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 5104 &quot;Vascular Ultrasound Measurement Group&quot;</td>
<td>1-n</td>
<td>M</td>
<td></td>
<td>$AnatomyGroup = $Anatomy</td>
</tr>
</tbody>
</table>

### Table 8.7-3
**TID 5104 VASCULAR ULTRASOUND MEASUREMENT GROUP**

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>$AnatomyGroup</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (G-A1F8, SRT, &quot;Topographical Modifier&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td>DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>3</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (125101, DCM, &quot;Vessel Branch&quot;)</td>
<td>1-n</td>
<td>U</td>
<td></td>
<td>DCID 12117 &quot;Vessel Branch Modifiers&quot;</td>
</tr>
<tr>
<td>4</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 300 &quot;Measurement&quot;</td>
<td>1-n</td>
<td>M</td>
<td></td>
<td>$Measurement = DCID 0365 &quot;Abdominal Parameters&quot;</td>
</tr>
<tr>
<td>5</td>
<td>&gt;&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (R-4089A, SRT, &quot;Cardiac Cycle Point&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td>DCID 12233 &quot;Cardiac Phase&quot;</td>
</tr>
</tbody>
</table>

### Table 8.7-4
**CID 0365 ABDOMINAL PARAMETERS**

<table>
<thead>
<tr>
<th>CSD</th>
<th>CV</th>
<th>CM</th>
<th>&amp;Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSBus</td>
<td>0360000F</td>
<td>Cortical Thickness</td>
<td></td>
</tr>
<tr>
<td>SRT</td>
<td>M-02550</td>
<td>Diameter</td>
<td></td>
</tr>
<tr>
<td>DCM</td>
<td>121206</td>
<td>Distance</td>
<td></td>
</tr>
<tr>
<td>DCM</td>
<td>121207</td>
<td>Height</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>0360000E</td>
<td>Left Kidney height</td>
<td></td>
</tr>
<tr>
<td>LN</td>
<td>11834-9</td>
<td>Left Kidney length</td>
<td></td>
</tr>
<tr>
<td>LN</td>
<td>11853-9</td>
<td>Left Kidney thickness</td>
<td></td>
</tr>
<tr>
<td>LN</td>
<td>11825-7</td>
<td>Left Kidney width</td>
<td></td>
</tr>
<tr>
<td>SRT</td>
<td>G-A22A</td>
<td>Length</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>0360001C</td>
<td>Node 1</td>
<td></td>
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<tr>
<td>TSBus</td>
<td>0360001D</td>
<td>Node 2</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>0360001E</td>
<td>Node 3</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>0360001F</td>
<td>Node 4</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>03600020</td>
<td>Node 5</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>03600021</td>
<td>Node 6</td>
<td></td>
</tr>
<tr>
<td>TSBus</td>
<td>03600022</td>
<td>Node 7</td>
<td></td>
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8.7.2 Private Template - TID 0360 Radiology Procedure Report

TID 0360 is only available to user-defined Abdominal measurements. The user can select code sets from CID 0364 to be embedded in those measurements.

Figure 8.7-2
Radiology Procedure Report SR Document IOD Template Structure
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**Finding Site**

| SRT | T-42500  | Abdominal aorta             |
| SNM3 | T-60610  | Bile duct               |
| SNM3 | T-63000  | Gall bladder          |
| SRT | T-71000  | Kidney                     |
| SNM3 | T-62000  | Liver                      |
| SRT | T-65000  | Pancreas                   |
| SRT | T-65010  | Pancreatic duct         |
| SRT | T-92000  | Prostate                   |
| SRT | T-C3000  | Spleen                     |
| SRT | T-B6000  | Thyroid                    |

**Topographical Modifier**

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