

Beschreibung Gesamt / Total Description

SW StorM-Base Plus_DICOM Conformance Statement

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Distribution List

See DMS.

Digital Signatures

| | | |
|-------------------------|--------------------------|--------------------------|
| Created by / Date: | Reviewed by / Date: | Approved by / Date: |
| See DMS stamp „Created“ | See DMS stamp „Reviewed“ | See DMS stamp „Approved“ |

Change History

| Version | Index | Date | Author | Change |
|---------|-------|------------|--------|--|
| 1.0 | 01 | 04.06.2012 | shu | New document |
| 1.0 | 02 | 26.09.2014 | shu | Storage update MWM update |
| 1.0 | 03 | 29.01.2015 | shu | Storage attributes update MPPS attributes table added |
| 1.1 | 03 | 09.02.2015 | shu | Generated UID description updated regarding use of Worklist information |
| 1.2 | 03 | 28.10.2015 | shu | Generated UID description updated because of mistake in UID generation New root-UID |
| 1.3 | 03 | 27.11.2015 | shu | Generated UID description updated |
| 1.4 | 03 | 07.01.2016 | shu | Implementation Class UID and Version Name mistake fixed |

Abbreviations

| | |
|--------------|--|
| SMAG | Storz Medical AG |
| SMT | StorM-Touch |
| SMB | StorM-Base |
| ACR | American College of Radiology |
| ANSI | American National Standards Institute |
| DICOM | Digital Imaging and Communications in Medicine |

| | |
|----------------|---|
| DIMSE | DICOM Message Service Element |
| DIMSE-C | DICOM Message Service Element – Composite |
| DIMSE-N | DICOM Message Service Element – Normalized |
| NEMA | National Electrical Manufacturers Association |
| PDU | Protocol Data Unit |
| SCP | Service Class Provider |
| SCU | Service Class User |
| SOP | Service Object Pair |
| TCP/IP | Transmission Control Protocol / Internet Protocol |
| UID | Unique Identifier |
| RIS | Radiology Information System |
| PACS | Picture Archiving and Communication System |

Definitions

| | |
|-------------|--|
| none | |
|-------------|--|

References

None

Note

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1 Introduction

1.1 Purpose of this Document

This document is a provisional DICOM Conformance Statement for the software product StorM-Base.

The StorM-Base is an independent software application specifically tailored for lithotripsy treatments. It is designed for the recording and statistical evaluation of the shock wave therapy, including anamnesis, stone identification, diagnosis/analysis, follow-up, image integration and preparation of reports for patients' attending physicians.

Verification Service is implemented to verify application level communication between remote System and local System.

Basic Worklist Management Service is implemented to retrieve a Worklist from a remote System (RIS, Broker).

Storage Service is implemented to store Images on a remote System (PACS).

Query / Retrieve Service is implemented to retrieve Images from remote System (PACS) for viewing on local System.

An Overview of the networking DIMSE-C services supported by StorM-Base is listed in Table 1:

Table 1 Network Services

| Networking SOP Classes | User of Service (SCU) | Provider of Service (SCP) |
|--|-----------------------|---------------------------|
| Verification | Yes | No |
| Modality Worklist Information Model - FIND | Yes | No |
| Storage | Yes | No |
| Query / Retrieve | Yes | No |
| Modality Performed Procedure Step | Yes | No |
| Storage commitment | Yes | No |
| Image Transfer | | |
| Secondary Capture Image Storage | Yes | No |
| Ultrasound Multi-frame Image Storage | Yes | No |

1.2 Sources for this Document

ACR – NEMA Digital Imaging and Communication in Medicine (DICOM) Version 3.0 (2003)

1.3 Connectivity and Interoperability

The Implementation of StorM-Base Verification Service, Basic Worklist Management Service, Storage Service and Query Retrieve Service have been tested to assure correspondence with this Conformance Statement.

But the Conformance Statement and the DICOM Standard does not guarantee interoperability.

2 Implementation Model

The StorM-Base DICOM Interface is an implementation of:

- DICOM Verification Service Class user (SCU)
- DICOM Basic Worklist Management Service Class user (SCU)
- DICOM Storage Service Class user (SCU)
- DICOM Query / Retrieve Service Class user (SCU)
- DICOM Modality Performed Procedure Step Service Class user(SCU)
- DICOM Storage commitment Service Class user(SCU)

The StorM-Base Interface is implemented as a single Application Entity.

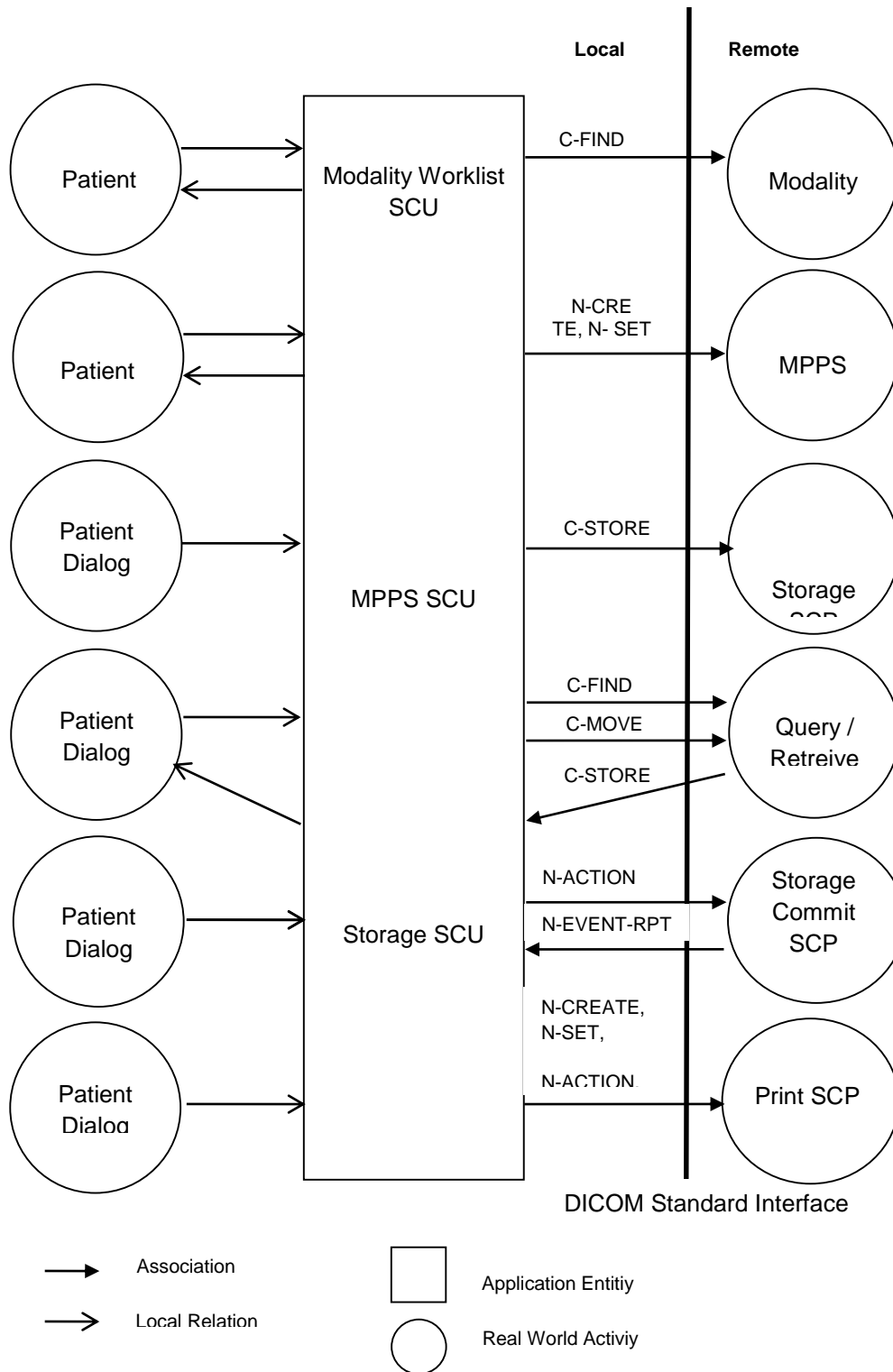
It can acquire patient Worklist from remote Basic Worklist Management Service Class provider (SCP).

It can store Images to a remote Storage Service Class provider (SCP).

It can Query and Retrieve Images for viewing from a remote Query / Retrieve Service Class provider (SCP)

2.1 Application Data Flow Diagram

Figure 1: Application Data Flow Diagram



2.2 Functional Definitions of Application Entity

StorM-Base acts as a single AE with a configurable AE Title.

All communication with the remote application is accomplished utilizing the DICOM protocol over a network using the TCP/IP protocol stack.

SMB Plus does not restrict the communication by checking application entities.

If SMB Plus is directed to retrieve a Worklist (Patient dialog) it acts as a Basic Worklist Management SCU and sends a C-FIND request to a remote Worklist Server using selected search keys. While actual procedure is performed, MPPS (Modality Performed Procedure Step) is created(N-CREATE request) and its status will be updated correct(N-SET).

If SMB Plus is directed to store one or more locally acquired Images it acts as a Storage SCU and sends a C-STORE request to a remote Storage Server. In order to ensure the storage, it will also act as Storage commitment SCU by sending the N-ACTION request and the response for the Storage commitment received through N-EVENT-REPORT.

If SMB Plus is directed to query and retrieve Image data from a remote Storage Server it acts as a Query / Retrieve SCU and sends a C-FIND to remote Storage Server.

If SMB Plus retrieves one or more C-FIND responses (for the Query / Retrieve request) from the Storage Server then SMB sends one or more C-MOVE request to remote Storage Server to retrieve the found data. In response to a C_MOVE request for image data, the SMB accepts an association request to store the image and acts for this as a Storage SCP.

If SMB Plus is directed to print the image data it will create the print session and film box using the N-CREATE request and image is set to this film box using the N-SET request. To print this film box, N-ACTION request is send and after completing the printing it will delete the session using N-DELETE request.

2.3 Sequencing of Real World Activities

Real world activities are sequenced as required to meet the definition of the Service Classes.

No additional sequencing activity is needed.

3 AE Specifications

3.1 AE Specifications for the DICOM

SMB provides Standard Conformance to the following DICOM V3.0 **Verification** SOP Class as an **SCU**

Table 2: Verification SOP Class

| SOP Class | SOP Class UID |
|------------------------|---------------|
| Verification SOP Class | 1.2.840.1.1 |

SMB provides Standard Conformance to the following DICOM V3.0 **Modality Worklist** SOP Class as an **SCU**

Table 3: Modality Worklist SOP Class

| SOP Class | SOP Class UID |
|--|------------------------|
| Modality Worklist Information Model - Find | 1.2.840.10008.5.1.4.31 |

SMB provides Standard Conformance to the following DICOM V3.0 **Storage** SOP Class as an **SCU**

Table 4: Storage SOP Classes

| SOP Class | SOP Class UID |
|--|--------------------------------|
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| Ultrasound Image Storage (retired) | 1.2.840.10008.5.1.4.1.1.6 |
| Ultrasound Multi-frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| Ultrasound Multi-frame Image Storage (retired) | 1.2.840.10008.5.1.4.1.1.3 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 |
| Multi-frame Single Bit Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7.1 |
| Multi-frame Grayscale Byte Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7.2 |
| Multi-frame Grayscale Word Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7.3 |
| Multi-frame True Color Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7.4 |
| Computed Radiography Image Storage | 1.2.840.10008.5.1.4.1.1.1 |
| CT Image Storage | 1.2.840.10008.5.1.4.1.1.2 |
| MR Image Storage | 1.2.840.10008.5.1.4.1.1.4 |
| Nuclear Medicine Image Storage | 1.2.840.10008.5.1.4.1.1.20 |
| Xray Angiographic Image Storage | 1.2.840.10008.5.1.4.1.1.12.1 |
| Xray Radiofluoroscopic Image Storage | 1.2.840.10008.5.1.4.1.1.12.2 |
| Xray Angiographic Bi-Plane Image Storage | 1.2.840.10008.5.1.4.1.1.12.3 |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 |
| Positron Emission Tomographic Image Storage | 1.2.840.10008.5.1.4.1.1.128 |
| RT Image Storage | 1.2.840.10008.5.1.4.1.1.481.1 |
| Grayscale Softcopy Presentation State Storage | 1.2.840.10008.5.1.4.1.1.11.1 |

SMB provides Standard Conformance to the following DICOM V3.0 **Query / Retrieve** SOP Class as an **SCU**

Table 5: Query / Retrieve SOP Classes

| SOP Class | SOP Class UID |
|--|-----------------------------|
| Study Root Query/Retrieve Information Model FIND | 1.2.840.10008.5.1.4.1.2.2.1 |
| Study Root Query/Retrieve Information Model MOVE | 1.2.840.10008.5.1.4.1.2.2.2 |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| Ultrasound Multiframe Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 |

SMB provides Standard Conformance to the following DICOM V3.0 **Modality Performed Procedure Step** SOP Class as an **SCU**

Table 6 MPPS Service Class

| SOP Class | SOP Class UID |
|---|-------------------------|
| Modality Performed Procedure Step SOP Class | 1.2.840.10008.3.1.2.3.3 |

SMB provides Standard Conformance to the following DICOM V3.0 **Storage Commitment** SOP Class as an **SCU**

Table 7 Storage commitment SOP class

| SOP Class | SOP Class UID |
|---|----------------------|
| Storage Commitment Push Model SOP Class | 1.2.840.10008.1.20.1 |

SMB provides Standard Conformance to the following DICOM V3.0 **Basic Print Management** SOP Class as an **SCU**

Table 8 Print SOP classes

| SOP Class | SOP Class UID |
|-------------------------------------|-------------------------|
| Basic Film Session | 1.2.840.10008.5.1.1.1 |
| Basic Film Box | 1.2.840.10008.5.1.1.2 |
| Basic Grayscale Image Box SOP Class | 1.2.840.10008.5.1.1.4 |
| Basic Color Image Box SOP Class | 1.2.840.10008.5.1.1.4.1 |

3.2 Association Establishment Policies

3.2.1 General

The StorM-Base DICOM application contains no limitations on maximum PDC size.

3.2.2 Number of Associations

The StorM-Base DICOM application supports only a single (none simultaneous) association establishment for association initiation and association acceptance.

3.2.3 Asynchronous Nature

The StorM-Base DICOM application does not support asynchronous communication.

The StorM-Base DICOM application allows single outstanding operation on any association.

3.2.4 Implementation Identifying Information

The StorM-Base application will respond with the following implementation identifying parameters:

- Implementation Class UID: **1.2.276.0.7230010.3.0.3.6.1**
- Implementation Version Name: **OFFIS_DCMTK_361**

3.3 Association Initiation by Real World Activity

The StorM-Base application initiates requests based upon real-world activities for the Verification, Modality Worklist, Query / Retrieve and Storage Service.

3.3.1 Real World Activity – Verification

3.3.1.1 Associated Real World Activity – Verification

The StorM-Base application uses the Verification Service Class to test communication with a remote system.

3.3.1.2 Presentation Context – Verification

The StorM-Base application supports the transfer syntaxes listed in Table 9.

It will accept any of the presentation Contexts listed in Table 1010 for **Verification**.

Table 9 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 10 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|-----------------|-------------------|------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Verification | 1.2.840.10008.1.1 | All from Table 9 | SCU | None |

3.3.2 Real World Activity – Modality Worklist Request

3.3.2.1 Associated Real World Activity – Modality Worklist Request

The StorM-Base application initiates association to remote DICOM Modality Worklist Service if the user clicks on button Worklist in Patient Dialog to retrieve Worklist informations.

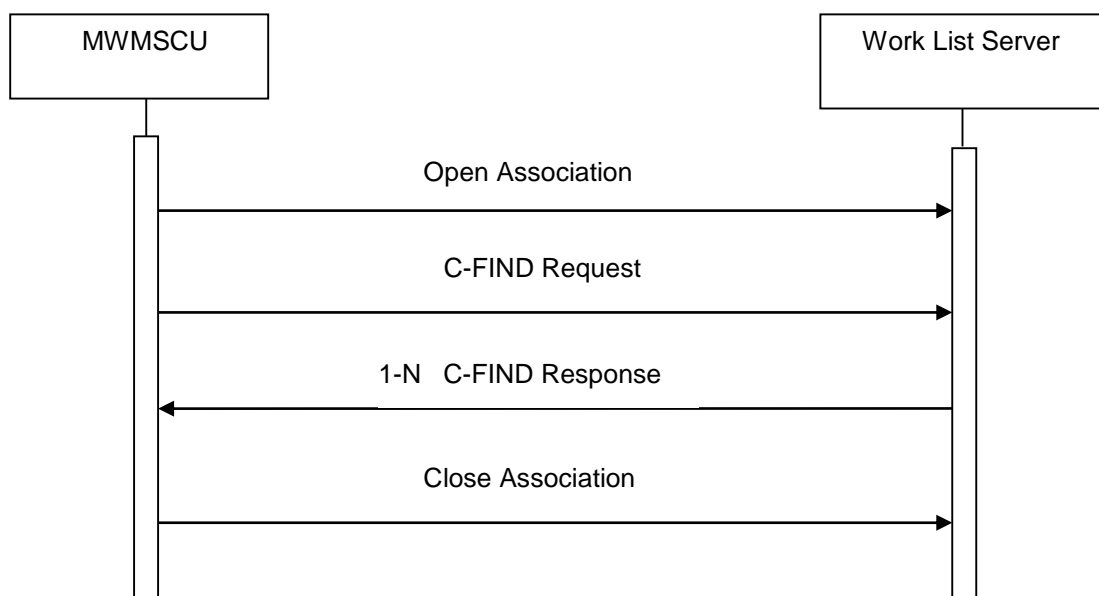


Figure 2 Sequence for Modality Worklist Management

3.3.2.2 Presentation Context – Modality Worklist Request

The StorM-Base application supports the transfer syntaxes listed in Table 11.

It will accept any of the presentation Contexts listed in Table 12 for **Modality Worklist Request**.

Table 11 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 12 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|--|------------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Modality Worklist Information Model - Find | 1.2.840.10008.5.1.4.31 | All from Table 11 | SCU | None |

3.3.2.3 SOP Specific Conformance – Modality Worklist Management

The StorM-Base Modality Worklist uses the matching key types listed in Table 13:

Table 13 Matching Key Types

| Matching Key Types | |
|--------------------|--------------------|
| SV | single value match |
| WC | wild card match |
| SQ | sequence match |
| DR | data range match |

The StorM-Base Modality Worklist – FIND supports the matching key attributes listed in Table 14:

Table 14 Matching Key Attributes

| Attribute Name | Tag | Match Key Type |
|--------------------------------------|-----------|----------------|
| Scheduled Procedure Step Sequence | 0040,0100 | SQ |
| >Scheduled Station AE Title | 0040,0001 | SV |
| >Scheduled Procedure Step Start Date | 0040,0002 | DR |
| >Modality | 0008,0060 | SV |

The StorM-Base Modality Worklist – FIND supports the return key attributes listed in Table 15:

(The following DICOM Tags are read from the Worklist Provider’s response message)

Table 15 Return Key Attributes

| Module | Attribute Name | Tag | Ret.Key | Supported |
|------------------------------|--|-----------|---------|-----------|
| SOP Common | Specific Character Set | 0008,0005 | 1C | No |
| Scheduled Procedure Step | Scheduled Procedure Step Sequence | 0040,0100 | 1 | Yes |
| | >Scheduled Station AE Title | 0040,0001 | 1 | Yes |
| | >Scheduled Procedure Step Start Date | 0040,0002 | 1 | Yes |
| | >Scheduled Procedure Step Start Time | 0040,0003 | 1 | Yes |
| | >Modality | 0008,0060 | 1 | Yes |
| | >Scheduled Performing Physician’s Name | 0040,0006 | 2 | No |
| | >Scheduled Procedure Step Description | 0040,0007 | 1C | No |
| | >Scheduled Station Name | 0040,0010 | 2 | No |
| | >Scheduled Procedure Step Location | 0040,0011 | 2 | No |
| | >Pre-Medication | 0040,0012 | 2C | No |
| >Scheduled Procedure Step ID | 0040,0009 | 1 | Yes | |

| | | | | |
|-------------------------|---|-----------|----|--------------------|
| | >Requested Contrast Agent | 0032,1070 | 2C | No |
| Requested Procedure | Requested Procedure ID | 0040,1001 | 1 | Yes |
| | Requested Procedure Description | 0032,1060 | 1C | No |
| | Study Instance UID | 0020,000D | 1 | Yes |
| | Referenced Study Sequence | 0008,1110 | 2 | No |
| | > Referenced SOP Class UID | 0008,1150 | 1C | No |
| | > Referenced SOP Inst. UID | 0008,1155 | 1C | No |
| | Requested Procedure Priority | 0040,1003 | 2 | No |
| | Pat. Transport Arrangements | 0040,1004 | 2 | No |
| Imaging Service Request | Accession Number | 0008,0050 | 2 | Yes |
| | Requesting Physician | 0032,1032 | 2 | No |
| | Referring Physician's Name | 0008,0090 | 2 | No |
| Visit Identification | Admission ID | 0038,0010 | 2 | No |
| Visit Status | Current Patient Location | 0038,0300 | 2 | No |
| Visit Relationship | Referenced Patient Sequence | 0008,1120 | 2 | No |
| | >Referenced SOP Class UID | 0008,1150 | 2 | No |
| | >Referenced SOP Inst. | 0008,1155 | 2 | No |
| Pat. Identification | Patient Name | 0010,0010 | 1 | Yes |
| | Patient ID | 0010,0020 | 1 | Yes |
| Patient Demographic | Patient Birth Date | 0010,0030 | 2 | Yes |
| | Patient Sex | 0010,0040 | 2 | Yes |
| | Patient Weight | 0010,1030 | 2 | No |
| | Patient Address | 0010,1040 | 3 | Yes ⁽¹⁾ |
| | Confidentially constraint on patient data | 0040,3001 | 2 | No |
| Patient Medical | Patient State | 0038,0500 | 2 | No |
| | Pregnancy Status | 0010,21C0 | 2 | No |
| | Medical Alerts | 0010,2000 | 2 | No |
| | Contrast Allergies | 0010,2110 | 2 | No |
| | Special Needs | 0038,0050 | 2 | No |
| General Study | Study Description | 0008,1030 | 3 | Yes |
| | Study Date | 0008,0020 | 2 | Yes |

Note:

- (1) Format is HL7 conform:
 <street address (ST)> ^ <other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code(ST)> ^ <country (ID)> ^ < address type (ID)> ^ <other geographic designation (ST)> ^ <county/parish code (IS)> ^ <census tract (IS)>

3.3.3 Real World Activity – Storage

3.3.3.1 Associated Real World Activity – Storage

The StorM-Base application initiates association for the transfer of images to remote DICOM Storage Service.

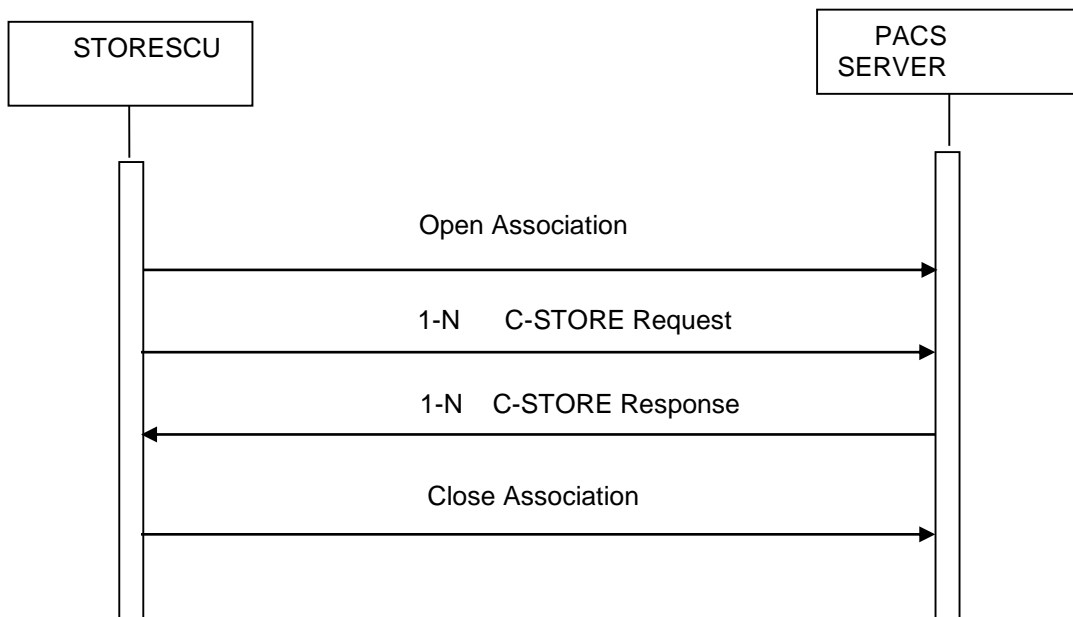


Figure 3 Sequence for Storage

3.3.3.2 Presentation Context – Storage

The StorM-Base application supports the transfer syntaxes listed in Table 16 and Table 17.

It will accept any of the presentation Contexts listed in Table 18 for **Storage**.

Table 16 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 17 Compressed Syntaxes

| Transfer Syntax | UID |
|-----------------|-----------------------|
| JPEG Losless | 1.2.840.1008.1.2.4.70 |
| JPEG Baseline | 1.2.840.1008.1.2.4.50 |
| RLE Losless | 1.2.840.1008.1.2.5 |

Table 18 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|---------------------------------|---------------------------|--------------------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | All from Table 16 and Table 17 | SCU | None |

| | | | | |
|--------------------------------------|-----------------------------|--------------------------------|-----|------|
| Ultrasound Multi-frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | All from Table 16 and Table 17 | SCU | None |
|--------------------------------------|-----------------------------|--------------------------------|-----|------|

3.3.3.3 SOP Specific Conformance –Storage – Secondary Capture Image Storage

The StorM-Base application supports the modules listed in Table 19:

(Note: these are all mandatory modules, all not mandatory modules are not supported.)

Table 19 Modules

| IE | Module | Reference (see 1.2) | Usage |
|-----------|-------------------|---------------------|-------|
| Patient | Patient | C.7.1.1 | M |
| Study | General Study | C.7.2.1 | M |
| Series | General Series | C.7.3.1 | M |
| Equipment | SC Equipment | C.8.6.1 | M |
| | General Equipment | C.7.5.1 | U |
| Image | General Image | C.7.6.1 | M |
| | Image Pixel | C.7.6.3 | M |
| | SC Image | C.8.6.2 | M |
| | SOP Common | C.12.1 | M |

The StorM-Base application supports the attributes as listed in Table 20:

Table 20 Attributes

| Module | Attribute Name | Tag | Type | Supported |
|-----------------|---------------------------------------|-----------|------|-----------|
| Patient | Patient's Name | 0010,0010 | 2 | Yes |
| | Patient ID | 0010,0020 | 2 | Yes |
| | Patient's Birth Date | 0010,0030 | 2 | Yes |
| | Patient's Sex | 0010,0040 | 2 | Yes |
| General Study | Study Instance UID | 0020,000D | 1 | Yes |
| | Study Date | 0008,0020 | 2 | Yes |
| | Study Time | 0008,0030 | 2 | Yes |
| | Referring Physician's Name | 0008,0090 | 2 | Yes |
| | Study ID | 0020,0010 | 2 | Yes |
| | Accession Number | 0008,0050 | 2 | Yes |
| | Study Description | 0008,1030 | 3 | Yes |
| General Series | Series Instance UID | 0020,000E | 1 | Yes |
| | Series Number | 0020,0011 | 2 | Yes |
| | Request Attributes Sequence | 0040,0275 | 3 | Yes |
| | >Requested Procedure ID | 0040,1001 | 1C | Yes |
| | >Scheduled Procedure Step ID | 0040,0009 | 1C | Yes |
| | >Scheduled Procedure Step Description | 0040,0008 | 3 | Yes |
| | Performed Procedure Step Start Date | 0040,0244 | 3 | Yes |
| | Performed Procedure Step Start Time | 0040,0245 | 3 | Yes |
| | Performed Procedure Step Description | 0040,0254 | 3 | Yes |
| Operators' Name | 0008,1070 | 3 | Yes | |

| | | | | |
|--------------------------------------|---|-----------|-----|-----|
| SC Equipment | Conversion Type | 0008,0064 | 1 | Yes |
| | Modality | 0008,0060 | 3 | Yes |
| General Equipment | Manufacturer | 0008,0070 | 2 | Yes |
| | Institution Name | 0008,0080 | 3 | Yes |
| | Institution Address | 0008,0081 | 3 | Yes |
| | Station Name | 0008,1010 | 3 | Yes |
| | Institutional Department Name | 0008,1040 | 3 | Yes |
| | Manufacturer's Model Name | 0008,1090 | 3 | Yes |
| | Software Versions | 0018,1020 | 3 | Yes |
| General Image | Instance Number | 0020,0013 | 2 | Yes |
| | Patient Orientation | 0020,0020 | 2C | Yes |
| | Content Date | 0008,0023 | 2C | Yes |
| | Content Time | 0008,0033 | 2C | Yes |
| | Acquisition Date | 0008,0022 | 3 | Yes |
| | Acquisition Time | 0008,0032 | 3 | Yes |
| Image Pixel | Samples per Pixel | 0028,0002 | 1 | Yes |
| | Photometric Interpretation | 0028,0004 | 1 | Yes |
| | Rows | 0028,0010 | 1 | Yes |
| | Columns | 0028,0011 | 1 | Yes |
| | Bits Allocated | 0028,0100 | 1 | Yes |
| | Bits Stored | 0028,0101 | 1 | Yes |
| | High Bit | 0028,0102 | 1 | Yes |
| | Pixel Representation | 0028,0103 | 1 | Yes |
| | Pixel Data | 7FE0,0010 | 1C | Yes |
| | Red Palette Color Lookup Table Descriptor | 0028,1101 | 1C | Yes |
| | Green Palette Color Lookup Table Descriptor | 0028,1102 | 1C | Yes |
| | Blue Palette Color Lookup Table Descriptor | 0028,1103 | 1C | Yes |
| | Red Palette Color Lookup Table Data | 0028,1201 | 1C | Yes |
| | Green Palette Color Lookup Table Data | 0028,1202 | 1C | Yes |
| Blue Palette Color Lookup Table Data | 0028,1203 | 1C | Yes | |
| SC Image | Date of Secondary Capture | 0018,1012 | 3 | No |
| | Time of Secondary Capture | 0018,1014 | 3 | No |
| | Nominal Scanned Pixel Spacing | 0018,2010 | 3 | No |
| SOP Common | SOP Class UID | 0008,0016 | 1 | Yes |
| | SOP Instance UID | 0008,0018 | 1 | Yes |

3.3.4 Real World Activity – Query / Retrieve

3.3.4.1 Real World Activity –Find

3.3.4.1.1 Associated Real World Activity – FIND

The StorM-Base will query the SCP (typically a PACS) to get the Study UID associated with the accession number provided by the RIS. This is done in preparation for a C-Move request as described in section 3.3.4.2.

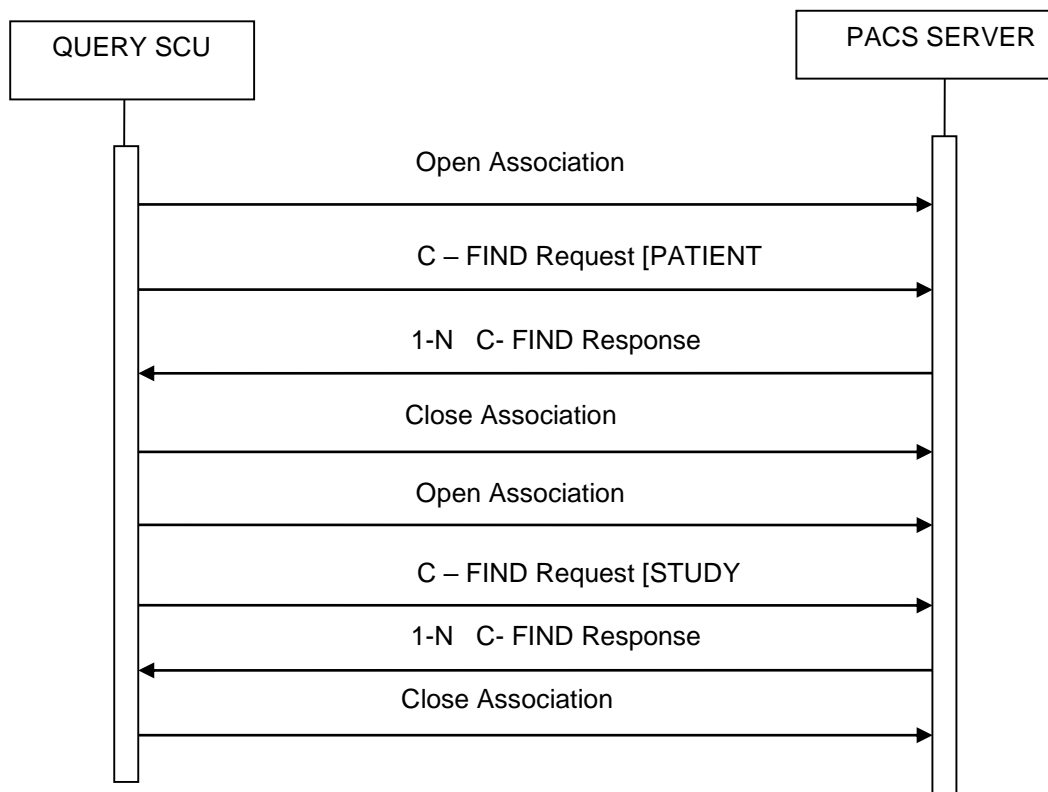


Figure 4 Sequence for Query

3.3.4.1.2 Presentation Context – FIND

The StorM-Base application supports the transfer syntaxes listed in Table 21.

It will accept any of the presentation Contexts listed in Table 22 for **Query / Retrieve - FIND**.

Table 21 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 22 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|---|-----------------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Study Root Query/Retrieve Information Model FIND | 1.2.840.10008.5.1.4.1.2.2.1 | All from Table 21 | SCU | None |

3.3.4.1.3 SOP Specific Conformance –FIND

SOP Classes of the **Query / Retrieve** Service Class are implemented via the DIMSE **C-FIND** and **C-MOVE** services as defined in Part 7 of the DICOM Standard.

The StorM-Base application will include the following key attributes in its C-FIND request issued to the PACS:

Table 23 C-FIND Key Attributes

| Attribute Name | Study Level | Series Level | Image Level |
|---------------------|-------------|--------------|-------------|
| Patient ID | Specify | Specify | Specify |
| Study Instance UID | Empty | Specify | Specify |
| Series Instance UID | Empty | Empty | Specify |
| Study ID | Empty | NA | NA |
| Study Date | Empty | NA | NA |
| Study Time | Empty | NA | NA |
| Modality | Empty | NA | NA |
| Series Date | NA | Empty | NA |
| Series Time | NA | Empty | NA |
| Series Description | NA | Empty | NA |

3.3.4.2 Real World Activity –Move

3.3.4.2.1 Associated Real World Activity – Move

StorM-Base will request the SCP (typically a PACS) move the study associated with the Study Instance UID provided by the C_FIND (section 3.3.4.1) to the StorM-Base host.

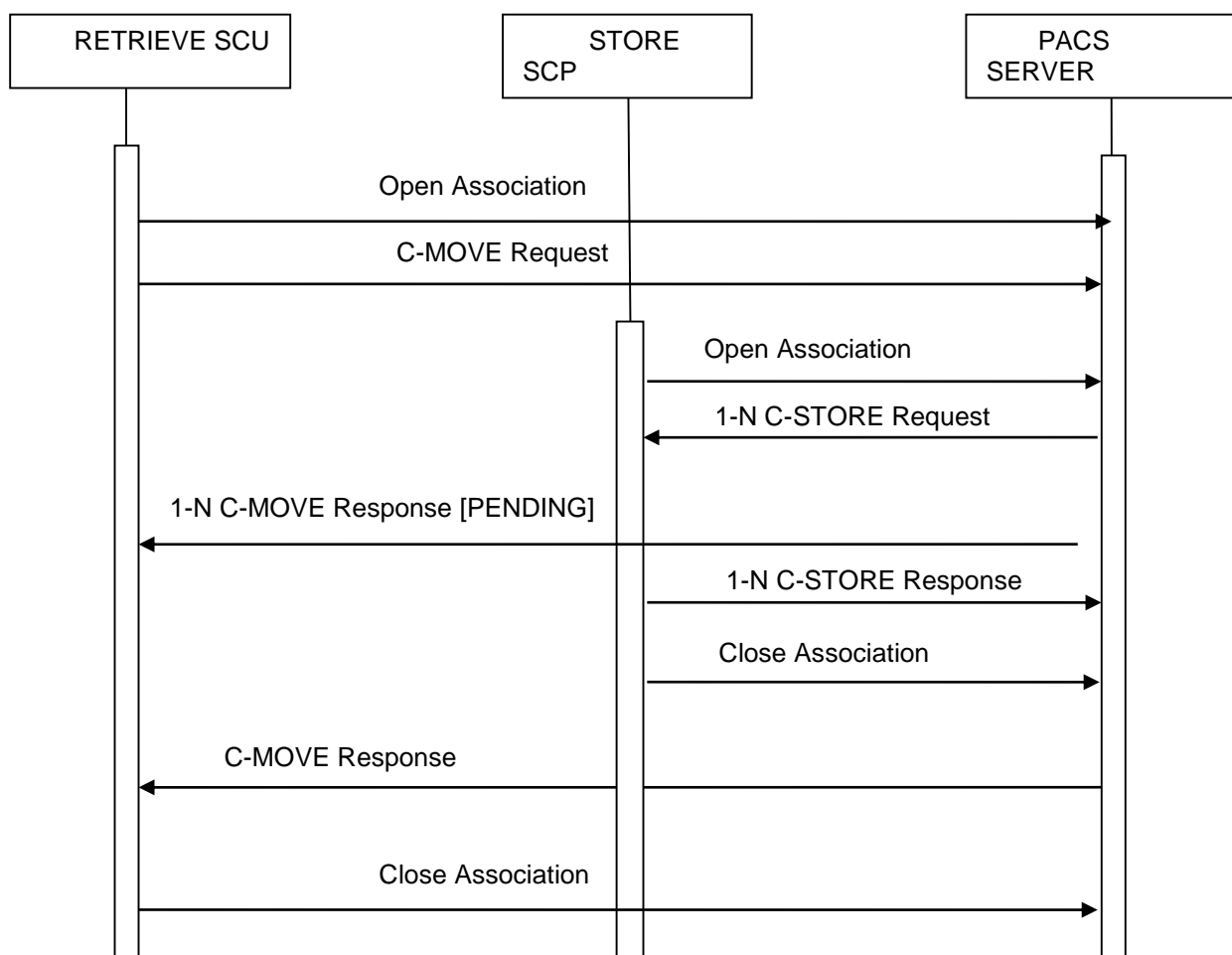


Figure 5 Sequence for Retrieve

The StorM-Base application supports the transfer syntaxes listed in Table 24.

It will accept any of the presentation Contexts listed in Table 25 for **Query / Retrieve - MOVE**.

Table 24 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 25 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|--|-----------------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Study Root Query/Retrieve Information Model MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | All from Table 24 | SCU | None |
| Ultrasound Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | All from Table 24 | SCU | None |
| Ultrasound Multiframe Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | All from Table 24 | SCU | None |
| Secondary Capture Image Storage | 1.2.840.10008.5.1.4.1.1.7 | All from Table 24 | SCU | None |

3.3.4.2.3 SOP Specific Conformance –Move

SOP Classes of the **Query / Retrieve** Service Class are implemented via the DIMSE **C-FIND** and **C-MOVE** services as defined in Part 7 of the DICOM Standard.

3.3.5 Real World Activity – MPPS

3.3.5.1 Real World Activity – MPPS

3.3.5.1.1 Associated Real World Activity – MPPS

StorM-Base will request the SCP (typically a RIS Server) to create and set the instance status which is received through the Modality Worklist. N-CREATE and N-SET DIMSE services will be used for this purpose.

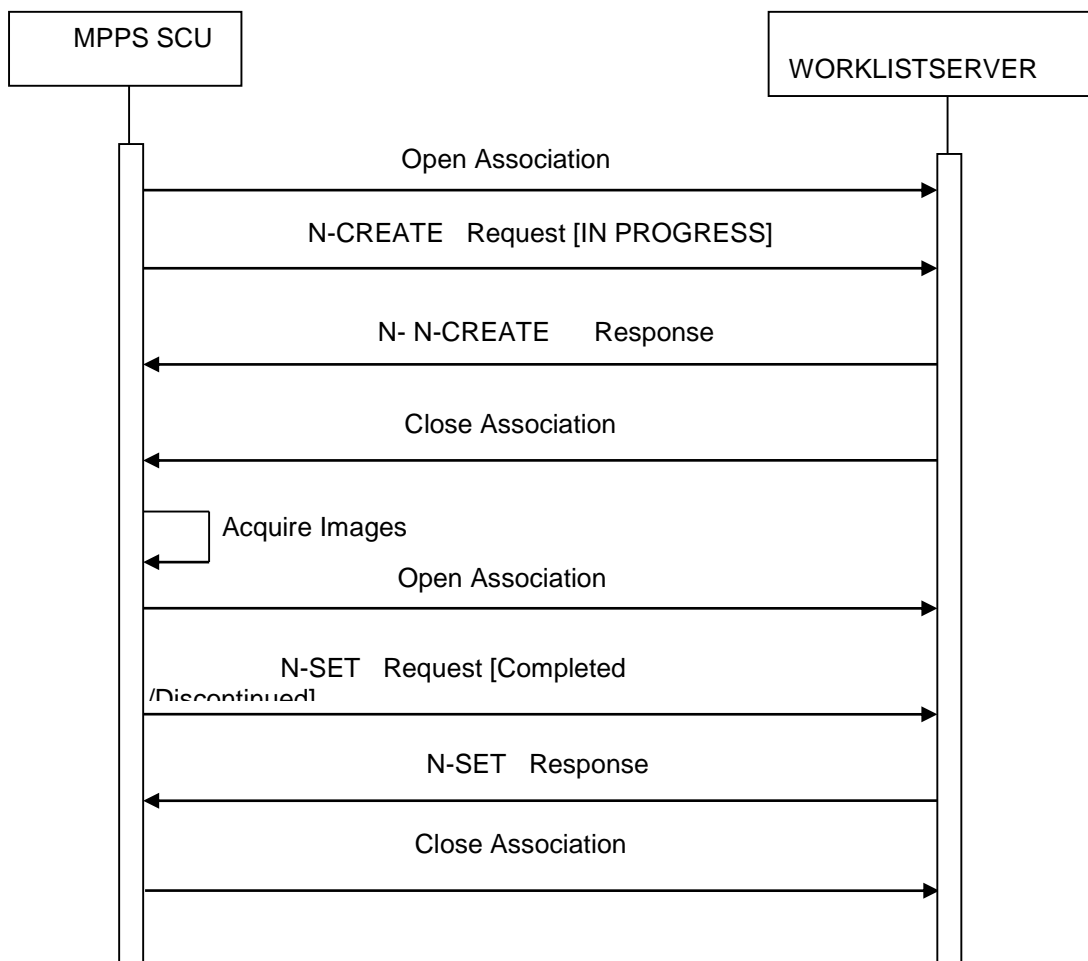


Figure 6 Sequence for Modality Performed Procedure Step

3.3.5.1.2 Presentation Context – MPPS

The StorM-Base application supports the transfer syntaxes listed in Table 24.

It will accept any of the presentation Contexts listed in Table 25 for **MPPS**.

Table 26 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 27 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|---|-------------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Modality Performed Procedure Step SOP Class | 1.2.840.10008.3.1.2.3.3 | All from Table 26 | SCU | None |

3.3.5.1.3 SOP Specific Conformance – MPPS

SOP Classes of the **MPPS** Service Class are implemented via the DIMSE **N-CREATE** and **N-SET** services as defined in Part 7 of the DICOM Standard

Table 28 Modules

| Module | Reference (see 1.2) |
|---------------------------------------|---------------------|
| SOP Common | C.12.1 |
| Performed Procedure Step Relationship | C.4.13 |
| Performed Procedure Step Information | C.4.14 |
| Image Acquisition Results | C.4.15 |
| Radiation Dose | C.4.16 |

The StorM-Base application supports the attributes as listed in Table 29:

Table 29 Attributes

| Module | Attribute Name | Tag | Type | Supported | |
|---------------------------------------|--------------------------------------|-----------|------|-----------|-------|
| | | | | N-CREATE | N-SET |
| SOP Common | SOP Class UID | 0008,0016 | 1 | Yes | - |
| | SOP Instance UID | 0008,0018 | 1 | Yes | - |
| | Specific Character Set | 0008,0005 | 1C | Yes | - |
| Performed Procedure Step Relationship | Scheduled Step Attribute Sequence | 0040,0270 | 1 | Yes | - |
| | >Study Instance UID | 0020,000D | 1 | Yes | - |
| | >Accession Number | 0008,0050 | 2 | Yes | - |
| | Patient's Name | 0010,0010 | 2 | Yes | - |
| | Patient ID | 0010,0020 | 2 | Yes | - |
| | Patient's Birth Date | 0010,0030 | 2 | Yes | - |
| | Patient's Sex | 0010,0040 | 2 | Yes | - |
| | Referenced Patient Sequence | 0008,1120 | 2 | Yes | - |
| | >Referenced SOP Class UID | 0008,1150 | 1 | Yes | - |
| >Referenced Instance UID | 0008,1155 | 1 | Yes | - | |
| Performed Procedure Step Information | Performed Procedure Step ID | 0040,0253 | 1 | Yes | - |
| | Performed Station AE Title | 0040,0241 | 1 | Yes | - |
| | Performed Station Name | 0040,0242 | 2 | Yes | - |
| | Performed Location | 0040,0243 | 2 | No | - |
| | Performed Procedure Step Start Date | 0040,0244 | 1 | Yes | - |
| | Performed Procedure Step Start Time | 0040,0245 | 1 | Yes | - |
| | Performed Procedure Step Status | 0040,0252 | 1 | Yes | Yes |
| | Performed Procedure Step Description | 0040,0254 | 2 | No | No |
| | Performed Procedure Type Description | 0040,0255 | 2 | Yes | No |
| | Procedure Code Sequence | 0008,1032 | 2 | No | No |
| | Performed Procedure Step End Date | 0040,0250 | 2 | No | Yes |
| | Performed Procedure Step End Time | 0040,0251 | 2 | No | Yes |
| Image Acquisition Results | Modality | 0008,0060 | 1 | Yes | - |
| | Study ID | 0020,0010 | 2 | Yes | - |
| | Performed Protocol Code Sequence | 0040,0260 | 2 | No | - |
| | Performed Series Sequence | 0040,0340 | 2 | No | Yes |

| | | | | | |
|----------------|---|-----------|---|----|-----|
| | >Performing Physician's Name | 0008,1050 | 2 | No | Yes |
| | >Protocol Name | 0018,1030 | 1 | No | Yes |
| | >Operators' Name | 0008,1070 | 2 | No | Yes |
| | >Series Instance UID | 0020,000E | 1 | No | Yes |
| | >Series Description | 0008,103E | 2 | No | No |
| | >Retrieve AE Title | 0008,0054 | 2 | No | No |
| | >Referenced Image Sequence | 0008,1140 | 2 | No | Yes |
| | >>Referenced SOP Class UID | 0008,1150 | 1 | No | Yes |
| | >>Referenced SOP Instance UID | 0008,1155 | 1 | No | Yes |
| Radiation Dose | Total Time of Fluoroscopy | 0040,0300 | 3 | No | Yes |
| | Total Number of Exposures | 0040,0301 | 3 | No | Yes |
| | Image and Fluoroscopy Area Dose Product | 0018,115E | 3 | No | Yes |
| | Exposure Dose Sequence | 0040,030E | 3 | No | Yes |
| | >Radiation Mode | 0018,115A | 3 | No | No |
| | >KVp | 0018,0060 | 3 | No | Yes |
| | >X-Ray Tube Current in μ A | 0018,8151 | 3 | No | No |
| | >Exposure Time | 0018,1150 | 3 | No | Yes |

3.3.6 Real World Activity – Storage Commitment

3.3.6.1 Real World Activity – Storage Commitment

3.3.6.1.1 Associated Real World Activity – Storage Commitment

StorM-Base will request the SCP (Storage Server) to initiate the Storage Commitment procedure for the image instance UID stored in the Storage. N-ACTION service will be used for this.

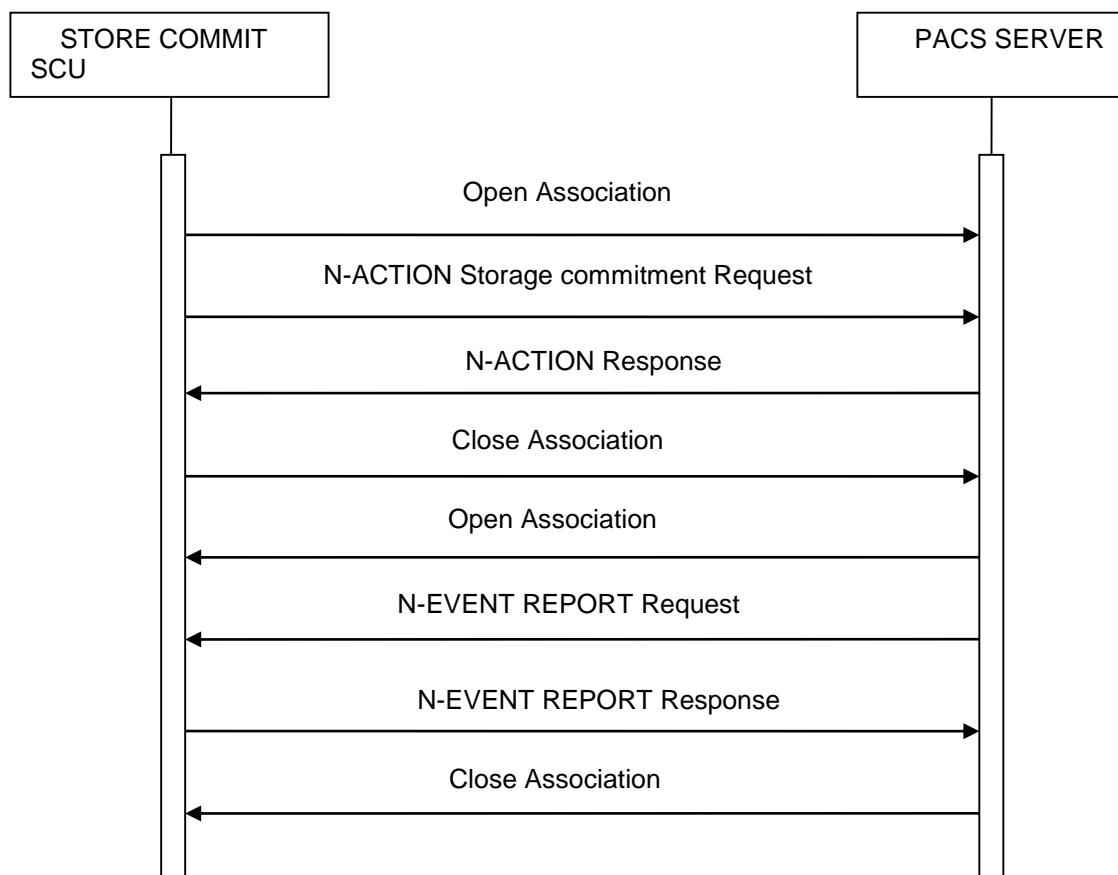


Figure 7 Sequence for Storage commitment

3.3.6.1.2 Presentation Context – Storage Commitment

The StorM-Base application supports the transfer syntaxes listed in Table 24.

It will accept any of the presentation Contexts listed in Table 25 for **Storage Commitment**.

Table 30 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 31 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|---|----------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Storage Commitment Push Model SOP Class | 1.2.840.10008.1.20.1 | All from Table 28 | SCU | None |

3.3.6.1.3 SOP Specific Conformance – Storage Commitment

SOP Classes of the **Storage commitment** Service Class are implemented via the DIMSE **N-ACTION** and **N-EVENT-REPORT** services as defined in Part 7 of the DICOM Standard

3.3.7 Real World Activity – Print

3.3.7.1 Real World Activity – Print

3.3.7.1.1 Associated Real World Activity – Print

StorM-Base will request the SCP (Print Server) to initiate the Storage Commitment procedure for the image instance UID stored in the Storage. N-CREATE (Film Session and Film box), N-SET (Image box), N-ACTION (print), N-DELETE (remove session) services will be used for this.

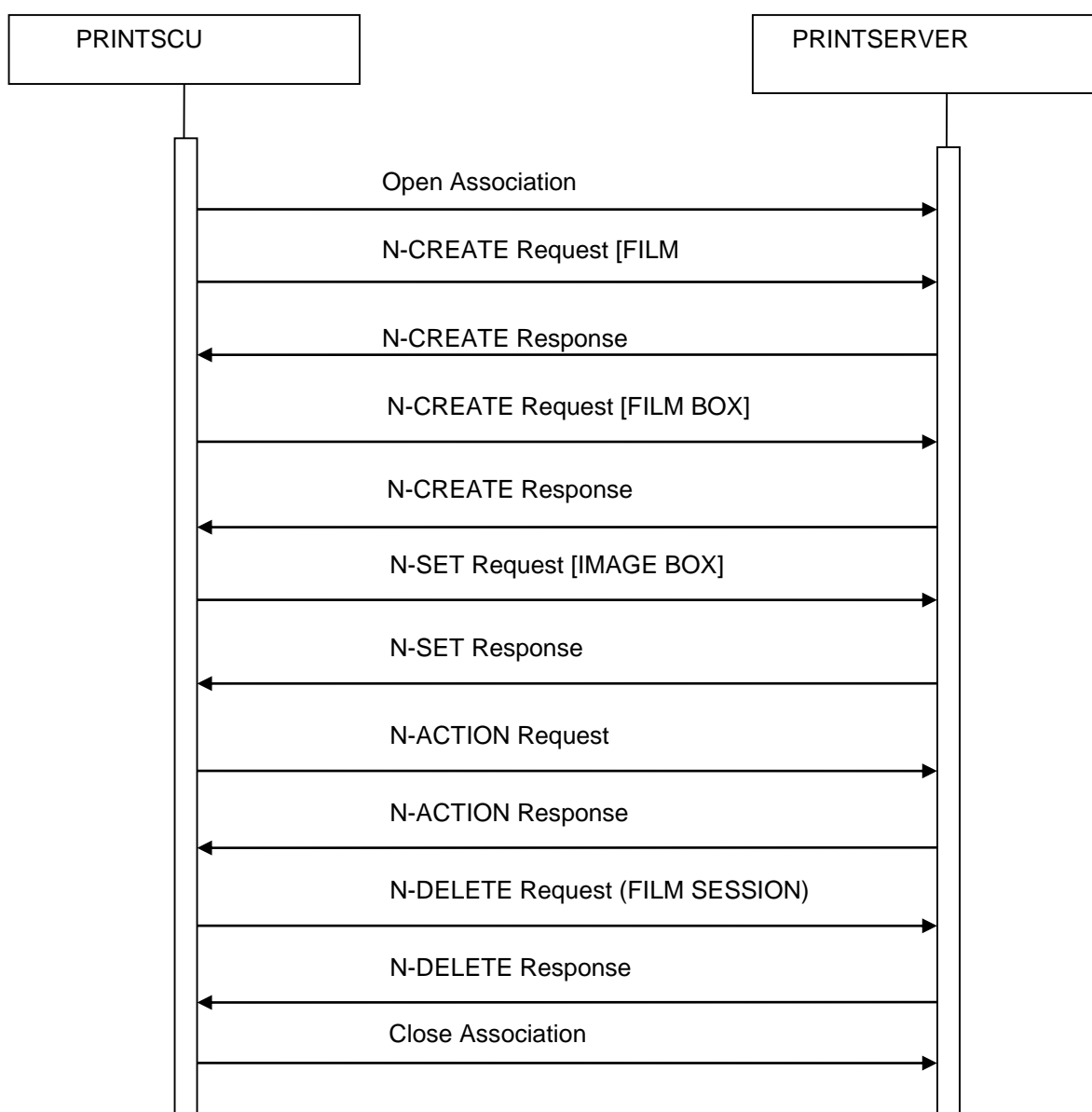


Figure 8 Sequence for Print

3.3.7.1.2 Presentation Context – Print

The StorM-Base application supports the transfer syntaxes listed in Table 24.

It will accept any of the presentation Contexts listed in Table 25 for **Storage Commitment**.

Table 32 Transfer Syntaxes

| Transfer Syntax | UID |
|---|------------------|
| DICOM Implicit VR Little Endian Transfer Syntax | 1.2.840.1008.1.2 |

Table 33 Presentation Contexts

| Abstract Syntax | | Transfer Syntax | Role | Extended Negotiation |
|-------------------------------------|-------------------------|-------------------|------|----------------------|
| SOP Class | SOP Class UID | | | |
| Basic Film Session | 1.2.840.10008.5.1.1.1 | All from Table 30 | SCU | None |
| Basic Film Box | 1.2.840.10008.5.1.1.2 | All from Table 30 | SCU | None |
| Basic Grayscale Image Box SOP Class | 1.2.840.10008.5.1.1.4 | All from Table 30 | SCU | None |
| Basic Color Image Box SOP Class | 1.2.840.10008.5.1.1.4.1 | All from Table 30 | SCU | None |

3.3.7.1.3 SOP Specific Conformance – Print

SOP Classes of the **Print** Service Class are implemented via the DIMSE **N-CREATE**, **N-SET** and **N-ACTION** and **N-DELETE** services as defined in Part 7 of the DICOM Standard

3.4 Association Acceptance Policy

The StorM-Base application accepts an association request for DICOM Storage in response to a C-MOVE request (Query / Retrieve SCU) and DICOM Storage commitment(N-EVENT-REPORT) in response to N-ACTION request(Storage commitment).

4 Communications Profiles

4.1 Supported Communication Stacks

The StorM-Base application interface provides DICOM V3.0 TCP/IP Network Communication support as defined in Part 8 of the DICOM Standard.

4.2 TCP/IP Stack

The StorM-Base application inherits its TCP/IP stack from the computer system upon which it executes.

4.3 Physical Medium Supported

The StorM-Base application is indifferent to the physical medium over which TCP/IP executes; it inherits the medium from the computer system upon which it executes.

5 Extensions / Specializations

5.1 Standard Extended / Specialized / Private SOPs

None supported.

5.2 Private Transfer Syntaxes

None supported.

6 Configuration

The configuration can be changed by the StorM-Base application - Option Dialog.

6.1 DICOM General configuration

The following setting can be changed:

| SI No | Setting | Description | Required for |
|-------|--------------|---------------------------------------|---|
| 1 | Calling AET | AE title of the calling SCP | Storage SCP AET for Retrieve operation |
| 2 | SCU AET | AE title of the local SCU | Storage Commit AET |
| 3 | Local port | Local port where the local SCP listen | Storage SCP local port for Retrieve operation |
| 4 | Modality | Modality of the system | For MWM operation |
| 5 | Station Name | Station name of the system | For MWM operation |
| 6 | Host Name | Host name of the system | For Storage SCP |

6.2 DICOM Worklist/MPPPS configuration

The following setting can be changed:

| SI No | Setting | Description |
|-------|------------------------|-----------------------------------|
| 1 | DICOM work list server | Name of the work list server |
| 2 | Host | Host name of the work list server |
| 3 | Server AET | AET of the calling SCP |
| 4 | Port | Port number of the SCP |
| 5 | Enable MPPS support | Flag for enabling MPPS support |

6.3 DICOM Storage/Commitment configuration

| SI No | Setting | Description |
|-------|--------------------------------|---|
| 1 | PACS | Name of the PACS server |
| 2 | SCP Server | Server name of the Storage SCP |
| 3 | SCP AET | AE title of the Storage SCP |
| 4 | SCP Port | Port number of Storage SCP |
| 5 | Deletion of local DICOM images | No.of days to delete the local images after the |

| | |
|--|--|
| | storage commitment have been received. |
|--|--|

6.4 DICOM Query / Retrieve configuration

Please refer section 6.3

Note: It is not possible to use / configure different hosts for Storage Service and Query / Retrieve Service.

6.5 DICOM Print configuration

| SI No | Setting | Description |
|-------|------------|---------------------------------------|
| 1 | Name | Logical name of the DICOM printer |
| 2 | Host name | Host name where the printer installed |
| 3 | Port | Port number of printer SCP |
| 4 | Called AET | AE title of the DICOM printer |

7 Support for Extended Character Sets

7.1 DICOM Worklist SCU

Does not support any extended character set.

7.2 DICOM Storage SCU

Does not support any extended character set.

7.3 DICOM Query / Retrieve SCU

Does not support any extended character set.

8 Annex A Configuration StorM-Base

8.1 SMB Plus Option Dialog - General

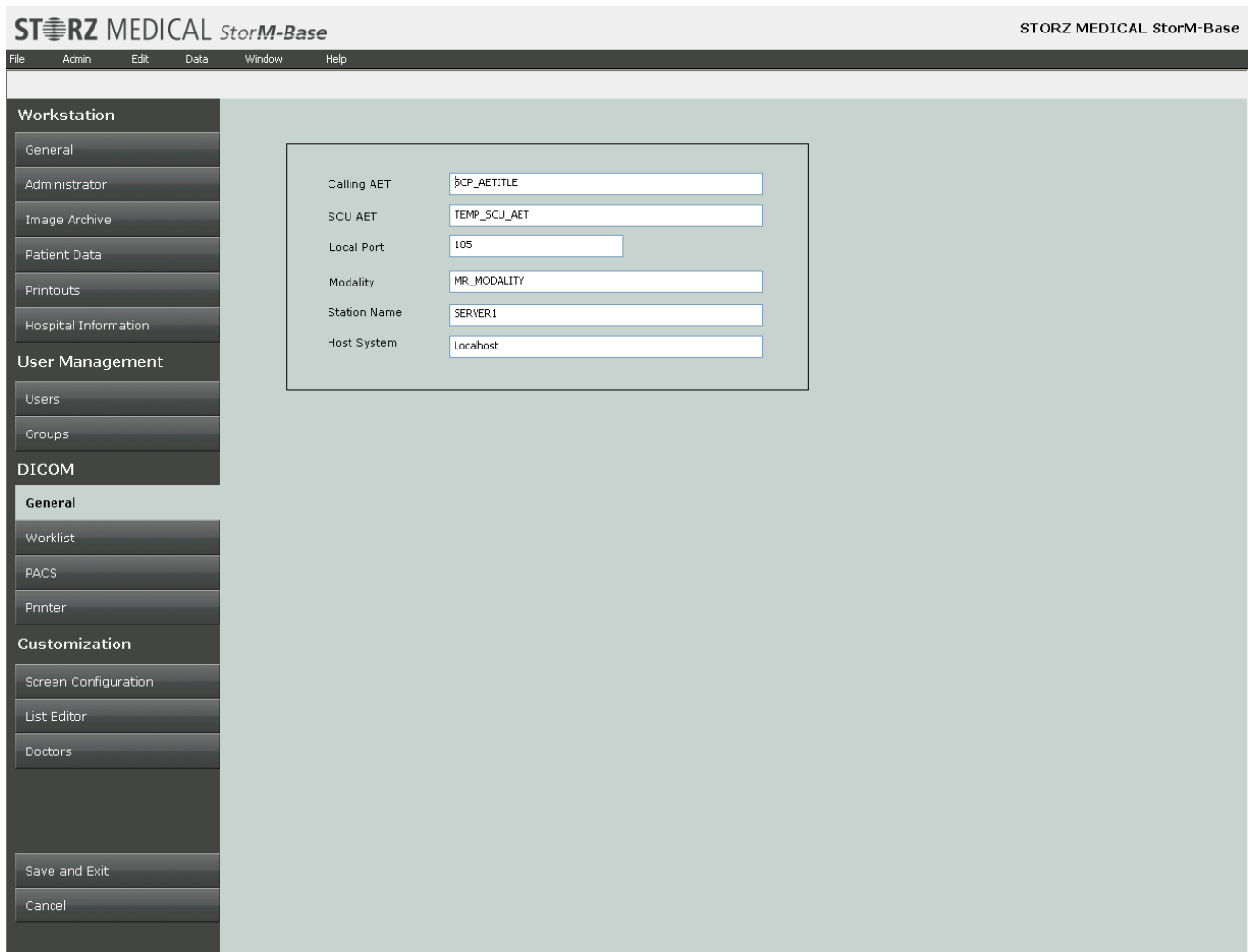


Figure 9 SMB Plus Option Dialog - General

8.2 SMB Plus Option Dialog - Worklist

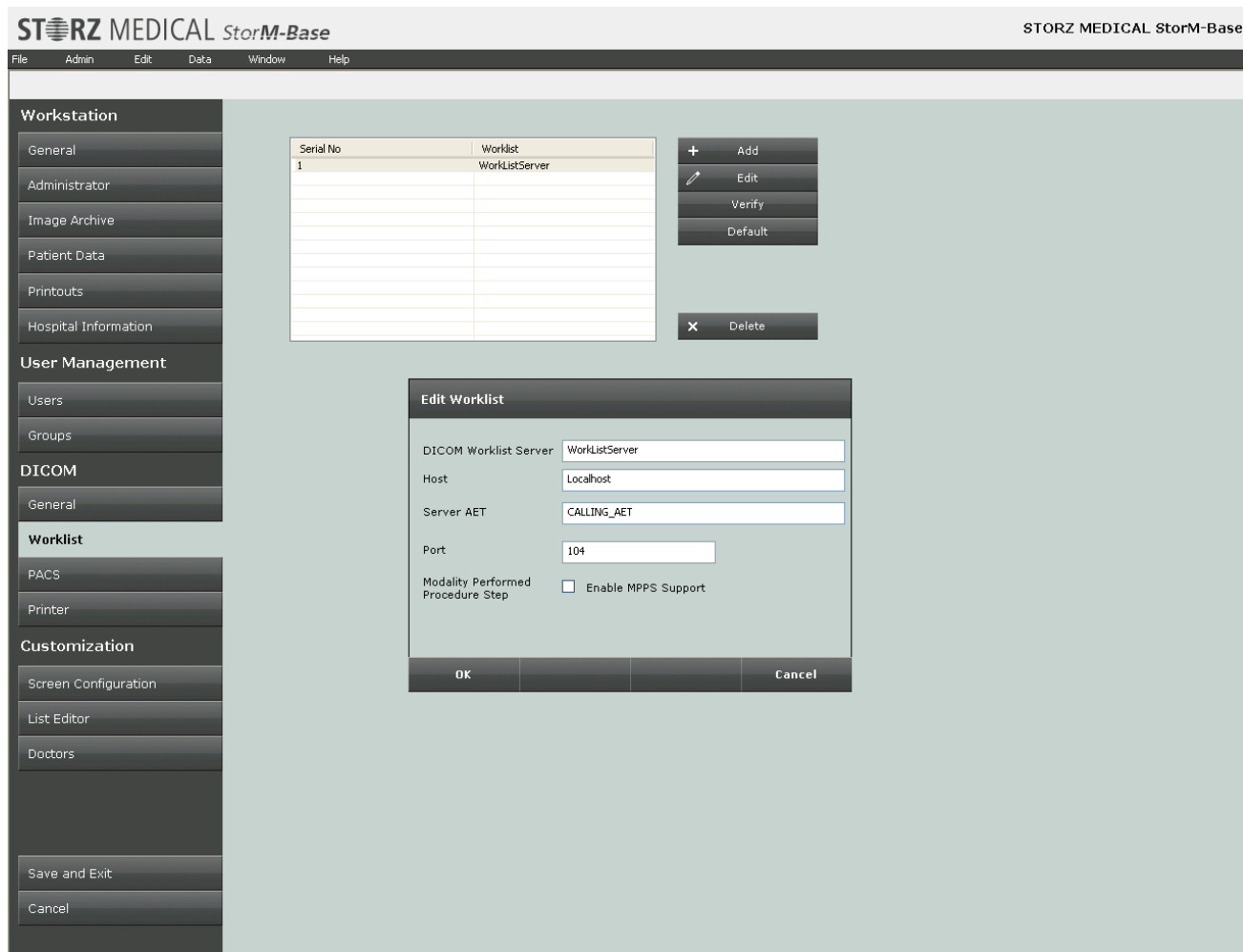


Figure 10 SMB Plus Option Dialog - Worklist

8.3 SMB Plus Option Dialog - PACS

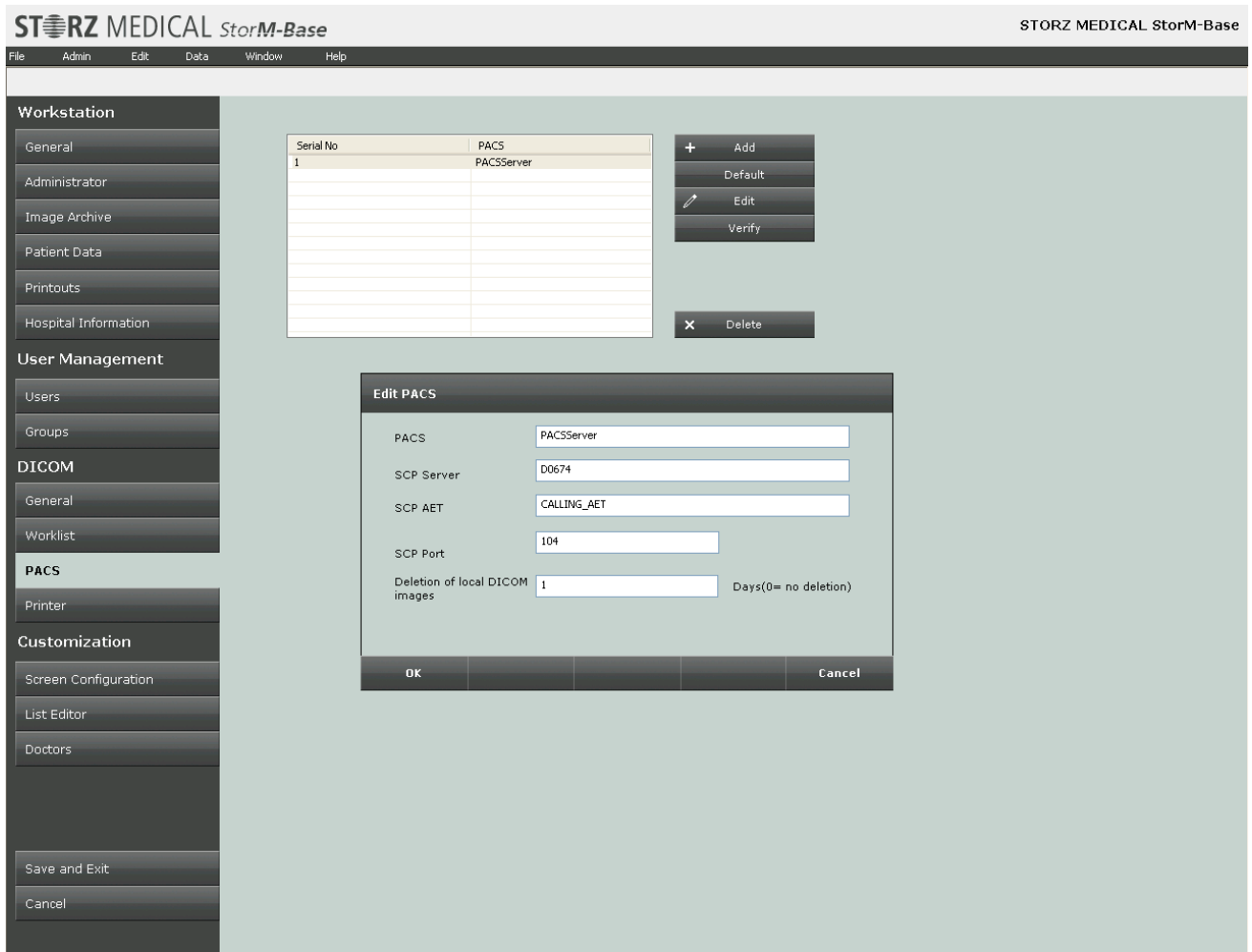


Figure 11 SMB Plus Option Dialog - PACS

8.4 SMB Plus Option Dialog – Printer

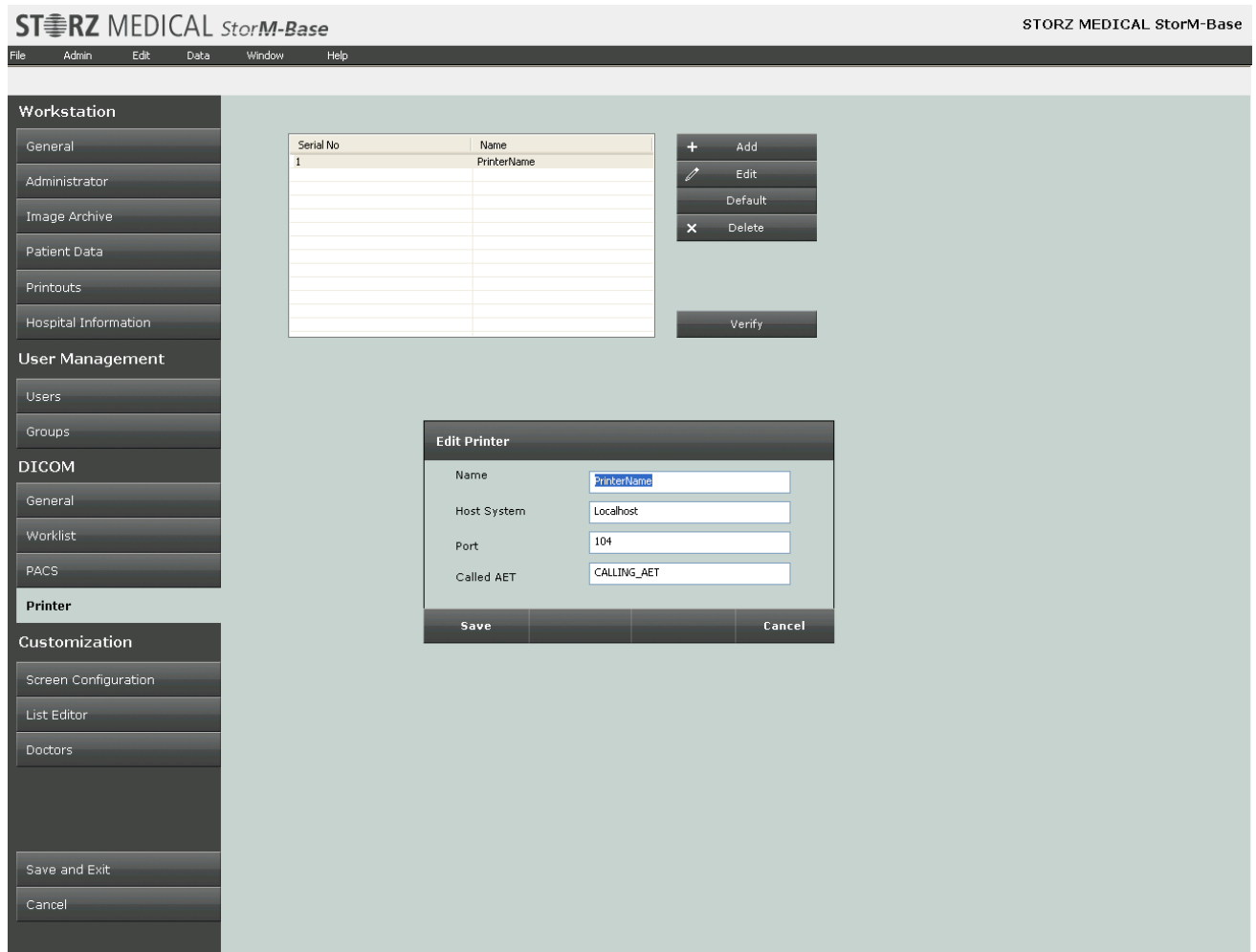


Figure 12 SMB Plus Option Dialog - Printer

8.5 Entry for work list:

The 'WorkList' dialog box features a title bar and four input fields. The 'Date' field is set to '4/30/2012', and the 'Time' field is set to '12:50:32 PM'. The 'Modality' and 'Station' fields are currently empty. The dialog is styled with a dark header and footer containing 'Cancel' and 'OK' buttons.

Figure 13 Entry for worklist

8.6 Entry for DICOM Print:

The 'Printer' dialog box includes a title bar and radio buttons for 'Dicom' (selected) and 'System'. A dropdown menu for printer selection is located below the radio buttons. Under the 'Settings' section, there are input fields for 'Copies', 'Priority', 'Medium Type', 'Destination', 'Display Format', and 'Orientation'. The dialog has a dark footer with 'Cancel', 'Preview', and 'OK' buttons.

Figure 14 Entry for DICOM print

8.7 Configuration XML

Following value in SMBPlusGeneralConfig.xml shall be configured for Storage Commitment SCP Port.

DICOM\StoreCommitSCPPort

9 Annex B Generated UID

9.1 Instance UID Formats

9.1.1 SMAG root UID

The following UID is used as root UID for the SMAG products:

1.2.826.0.1.3680043.9.5778

9.1.2 Instance UID Generation

Globally unique Instance UIDs for Study, Series and Images will be generated as following

1.2.826.0.1.3680043.9.5778.a.1xxxx.1rr.1yyyyyyyyyyyyyyyyyy

- a: is the application identifier. In case of StorM-Base application this identifier is 1.
- xxxx: is a unique series number generated by the StorM-Base application.
Note: *Therefore the application uses the USB HASP HL dongle key, that is required and unique for each StorM-Base installation.*
- rr: is a random generated number between 1 and 99.
- yyyyyyyyyyyyyyyyyy: is examination number which is a serial number, generated by StorM-Base. This number shall not be repeated for different patients.
Note: *This is generated based on a current hour, minute, second, milli seconds, year, month and day.*

10 Annex C Required Information

The following Chapter gives an Overview over all needed Information.
This information shall be available as early as possible to Storz Medical Service division.

Table 34 Required Information

| # | Conformance Statements | Available |
|-----------------|--|-----------|
| 1 | DICOM Conformance Statement of Worklist SCP (RIS, Broker) used by customer | |
| 2 | DICOM Conformance Statement of Storage SCP and Query/Retrieve SCP (PACS) used by customer | |
| Worklist Server | | |
| 3 | Hostname or IP Address of Worklist Server used by customer | |
| 4 | AE Title of Worklist Server used by customer | |
| 5 | Port number of Worklist Server used by customer | |
| PACS | | |
| 6 | Hostname or IP Address of PACS used by customer | |
| 7 | AE Title of PACS used by customer | |
| 8 | Port number of PACS used by customer | |
| 9 | Query / Retrieve Port number of PACS used by customer | |
| Network | | |
| 10 | DHCP used by customer? | |
| 11 | Fix IP used by customer? | |