



KONICA MINOLTA

Picture Archiving and Communication System

Acies

DICOM 3.0 Conformance Statement

CODE NO.1245



Manufacturer:

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DICOM Conformance Statement

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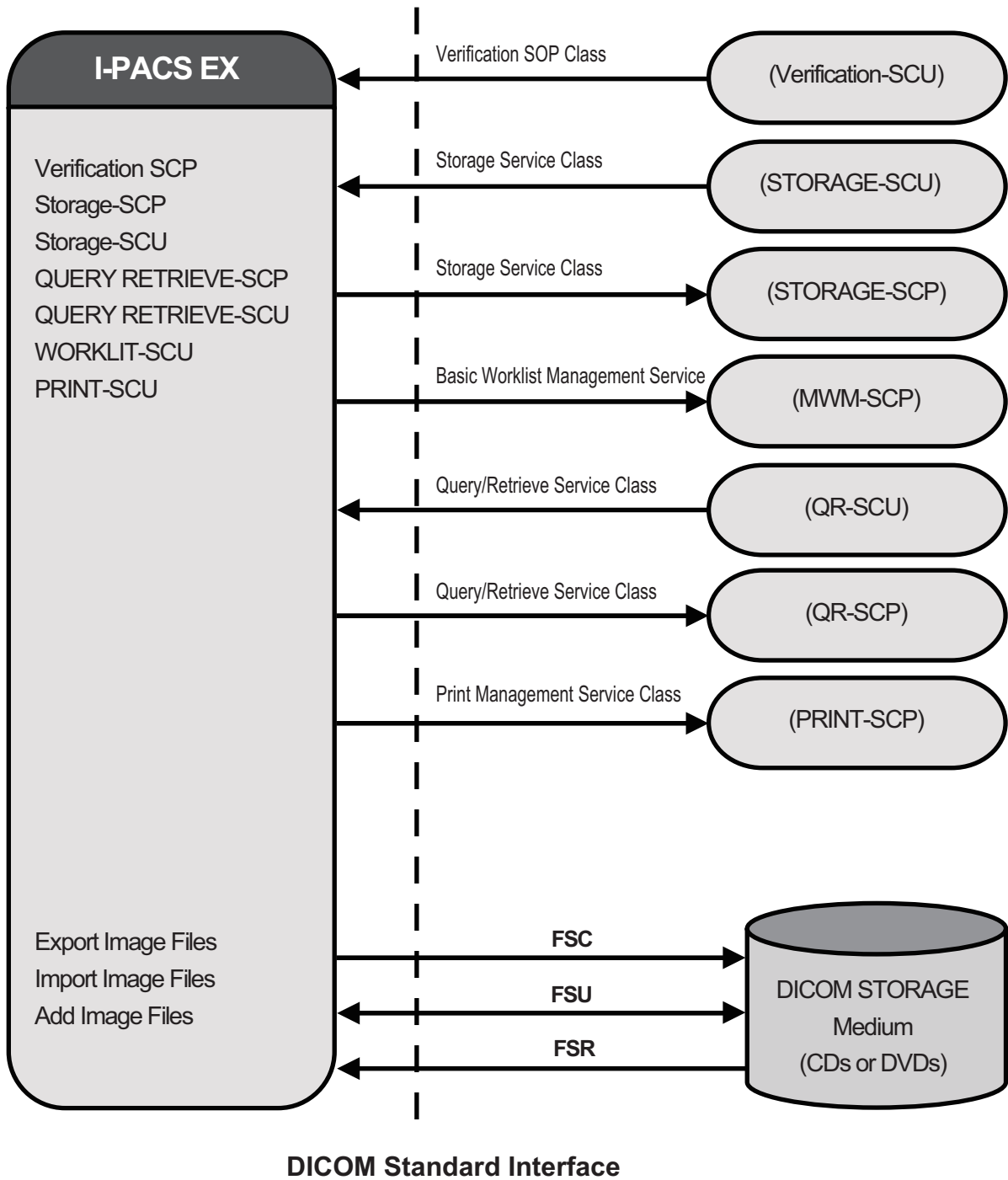
PREFACE

This document declares conformance to DICOM3.0 regarding KONICA MINOLTA Acies.

1. IMPLEMENTATION MODEL

The application model for Acies is as shown below.

1.1 Application Data Flow



1.2 Function Definition of AEs

Acies provides standard conformance to DICOM V3.0 SOP classes to both SCU and SCP

| SOP Class Name | SOP Class UID | SCU | SCP |
|--|--------------------------------|-----|-----|
| Verification SOP Class | | | |
| Verification | 1.2.840.10008.1.1 | No | Yes |
| Storage Service Class | | | |
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 | Yes | Yes |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 | Yes | Yes |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 | Yes | Yes |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 | Yes | Yes |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 | Yes | Yes |
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 | Yes | Yes |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 | Yes | Yes |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | Yes | Yes |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 | Yes | Yes |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | Yes | Yes |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 | Yes | Yes |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 | Yes | Yes |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 | Yes | Yes |
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 | Yes | Yes |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 | Yes | Yes |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 | Yes | Yes |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 | Yes | Yes |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 | Yes | Yes |
| Position Emission Tomography Storage | 1.2.840.10008.5.1.4.1.1.128 | Yes | Yes |
| RT Image Storage | 1.2.840.10008.5.1.4.1.1.481.1 | Yes | Yes |
| Grayscale Softcopy Presentation State Storage | 1.2.840.10008.5.1.4.1.1.11.1 | Yes | Yes |
| Basic Worklist Management Service Class | | | |
| Modality Worklist information Model - FIND | 1.2.840.10008.5.1.4.31 | Yes | No |
| Query/Retrieve Service Class | | | |
| Patient Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.1.1 | No | Yes |
| Patient Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.1.2 | No | Yes |
| Study Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.2.1 | Yes | Yes |
| Study Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | Yes | Yes |
| Patient/Study Only Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.3.1 | No | Yes |

| SOP Class Name | SOP Class UID | SCU | SCP |
|--|-----------------------------|-----|-----|
| Patient/Study Only Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.3.2 | No | Yes |
| Print Management Service Class | | | |
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 | Yes | No |
| Basic Film Session SOP Class | 1.2.840.10008.5.1.1.1 | Yes | No |
| Basic Film Box SOP Class | 1.2.840.10008.5.1.1.2 | Yes | No |
| Basic Grayscale Image Box SOP Class | 1.2.840.10008.5.1.1.4 | Yes | No |
| Presentation LUT SOP Class | 1.2.840.10008.5.1.1.23 | Yes | No |

Acies provides standard conformance to DICOM Interchange option of Media Storage Service Class.

| Identifier | Real World Activity | Role | SC Option |
|---|-----------------------------------|------|-------------|
| STD-GEN-CD STD-GEN-DVD-RAM | Create CD-DVD-R | FSC | Interchange |
| | Reads and displays directory file | FSR | Interchange |
| | Saves to local | FSU | Interchange |
| STD-US-ID-SF-CD STD-US-ID-MF-CD STD-US-ID-SF-DVD-RAM STD-US-ID-MF-DVD-RM | Create CD-DVD-R | FSC | Interchange |
| | Reads and displays directory file | FSR | Interchange |
| | Saves to local | FSU | Interchange |
| STD-CTMR-CD STD-CTMR-DVD-RAM | Create CD-DVD-R | FSC | Interchange |
| | Reads and displays directory file | FSR | Interchange |
| | Saves to local | FSU | Interchange |

1.2.1 Verification SOP Class SCP

Acies Verification SOP Class SCP works as a communication process. After accepting the Association establishment request to C-ECHO-RQ from an external AE, it responds a C-EHCO-RSP message.

1.2.2 Storage Service Class SCP

Acies Verification SOP Class SCP works as a communication process. After accepting the Association establishment request to C-STORE-RQ from an external AE, it starts receiving images.

1.2.3 Storage Service Class SCU

Acies Storage Service Class SCU works as a communication process. After accepting the Association establishment request to an external AE, it starts sending images from C-STORE-RQ.

1.2.4 Basic Worklist Management Service SCU

Acies Basic Worklist Management Service Class SCU works as a communication process. After accepting the Association establishment request to an external AE, it obtains patient/study information by C-FIND-RQ.

1.2.5 Query/Retrieve Service Class SCP

Acies Query/Retrieve Service Class SCP works as a communication process. After accepting the Association establishment request to C-FIND-RQ from an external AE, it searches requested images and responds the result. It also sends images requested by C-MOVE-RQ to a specified external AE.

1.2.6 Query/Retrieve Service Class SCU

Acies Query/Retrieve Service Class SCU works as a communication process. After accepting the Association establishment request to an external AE, it searches requested images by C-FIND and delegates obtainment of images by C-MOVE.

1.2.7 Print Management Service Class SCU

Acies Print Management Service Class works as a communication process. After accepting the Association establishment request to an external AE, it starts sending hard copies by N-CREATE-RQ.

1.2.8 Media Storage

Acies Media Storage has following functions:

- Initializing a medium and writing a collection of DICOM files to the medium
- Updating a medium by adding a new SOP instance to a collection of DICOM files that has already been existed
- Displaying a list of directories of a collection of files in the medium
- Copying a SOP instance to the local storage

1.3 Sequencing of Real-World Activities

Sequencing of Real-World Activities is not supported.

2. AE SPECIFICATIONS

2.1 Specifications of Acies Verification SOP Class SCP

Acies supports the following SOP class as Verification SOP Class SCP.

| SOP Class Name | SOP Class UID |
|----------------|-------------------|
| Verification | 1.2.840.10008.1.1 |

2.1.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.1.1.1 General

Acies Verification SOP Class SCP identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.1.1.2 Number of Associations

Acies Verification SOP Class SCP accepts up to 16 external AEs and Association requests including the Associations for different services at the same time. Parallel processing will be implemented for each AE whose Association has been established.

2.1.1.3 Asynchronous Nature

Asynchronous processing is not supported.

2.1.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

2.1.2 Real World Activity

2.1.2.1 Related Real World Activity

A related real-world activity is to receive a C-STORE request on images each reception authorized class from Storage Service Class SCU.

2.1.2.2 Table of Presentation Context

The following presentation context IDs are accepted.

| Abstract Syntax | | | |
|----------------------------|-------------------|------|----------------------|
| Name | UID | Role | Extended Negotiation |
| Verification Service Class | 1.2.840.10008.1.1 | SCP | None |

| Transfer Syntax | |
|---------------------------|---------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |
| Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Explicit VR Big Endian | 1.2.840.10008.1.2.2 |

2.1.2.3 Verification SOP Class

This provides conformance to Verification SOP Class.

Acies uses C-ECHO to verify the data reception from a sender device (SCU).

Behavior: Acies executes C-ECHO DIMSE service that conforms to a request in Verification Class.

Acies accepts the C-ECHO request, processes it properly, and then sends whether the process is complete successfully or unsuccessfully to SCU.

2.2 Specifications of Acies Storage Service Class SCP

Acies supports the following SOP classes as Storage Service Class SCP.

| SOP Class Name | SOP Class UID |
|---|--------------------------------|
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 |
| Digital Intra-oral X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.3 |
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 |
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 |
| Position Emission Tomography 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 |

2.2.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.2.1.1 General

Acies Storage Service Class SCP identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.2.1.2 Number of Associations

Acies Storage Service Class SCP accepts up to 10 external AEs and Association requests including the Associations for different services at the same time. Parallel processing will be implemented for each AE whose Association has been established.

2.2.1.3 Asynchronous Nature

A single image is only treated in the Association. Asynchronous processing is not supported.

2.2.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

2.2.2 Real-world Activity

2.2.2.1 Related Real-world Activity

A related real-world activity is to receive C-STORE request on images each reception authorized class from Storage Service Class SCU.

2.2.2.2 Table of Presentation Context

The following presentation context IDs are accepted.

| Abstract Syntax | | | |
|---|-------------------------------|------|----------------------|
| Name | UID | Role | Extended Negotiation |
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 | SCP | None |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 | SCP | None |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 | SCP | None |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 | SCP | None |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 | SCP | None |
| Digital Intra-oral X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.3 | SCP | None |

| Abstract Syntax | | | |
|---|--------------------------------|-----|------|
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 | SCP | None |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 | SCP | None |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | SCP | None |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 | SCP | None |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | SCP | None |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 | SCP | None |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 | SCP | None |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 | SCP | None |
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 | SCP | None |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 | SCP | None |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 | SCP | None |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 | SCP | None |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 | SCP | None |
| Position Emission Tomography Storage | 1.2.840.10008.5.1.4.1.1.128 | SCP | None |
| RT Image Storage | 1.2.840.10008.5.1.4.1.1.481.1 | SCP | None |
| Grayscale Softcopy Presentation State Storage | 1.2.840.10008.5.1.4.1.1.11.1 | SCP | None |

| Transfer Syntax | |
|---|------------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |
| Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Explicit VR Big Endian | 1.2.840.10008.1.2.2 |
| Default transfer syntax for lossy compression of 8-bit JPEG images | 1.2.840.10008.1.2.4.50 |
| Default transfer syntax for lossy compression of 12-bit JPEG images | 1.2.840.10008.1.2.4.51 |
| Default transfer syntax for lossless compression of JPEG images | 1.2.840.10008.1.2.4.70 |

2.2.2.3 Each Image Storage SOP Class

This provides conformance to each Image Storage SOP Class.

Acies uses C-STORE to receive the image data from an image-generated device (SCU).

The received data in each Service Class accords with the DICOM standard.

Behavior: Acies executes C-STORE DIMSE service that conforms to a request on images in each reception authorized class.

Acies accepts the C-STORE request, processes it properly, and then sends whether the process is complete successfully or unsuccessfully to SCU.

2.3 Specifications of Acies Storage Service Class SCU

Acies supports the following SOP classes as Storage Service Class SCU.

| SOP Class Name | SOP Class UID |
|---|--------------------------------|
| Verification | 1.2.840.10008.1.1 |
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 |
| Digital Intra-oral X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.3 |
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 |
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 |
| Position Emission Tomography 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 |

2.3.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.3.1.1 General

Acies Storage Service Class SCU identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.3.1.2 Number of Associations

Acies Storage Service Class SCU issues up to 5 Association establishment requests at a time for an external AE, which is a different device. Parallel processing will be implemented for each AE whose Association has been established.

2.3.1.3 Asynchronous Nature

A single image is only treated in the Association. Asynchronous processing is not supported.

2.3.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

2.3.2 Real-world Activity

2.3.2.1 Related Real-world Activity

A related real-world activity is to issue a C-STORE request on images each reception authorized class for Storage Service Class SCP.

2.3.2.2 Table of Presentation Context

Acies Storage Service Class SCU makes a request by using the presentation context in the table below.

| Abstract Syntax | | | |
|---|-------------------------------|------|----------------------|
| Name | UID | Role | Extended Negotiation |
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 | SCU | None |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 | SCU | None |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 | SCU | None |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 | SCU | None |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 | SCU | None |
| Digital Intra-oral X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.3 | SCU | None |
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 | SCU | None |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 | SCU | None |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | SCU | None |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 | SCU | None |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | SCU | None |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 | SCU | None |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 | SCU | None |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 | SCU | None |

| Abstract Syntax | | | |
|--|--------------------------------|-----|------|
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 | SCU | None |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 | SCU | None |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 | SCU | None |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 | SCU | None |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 | SCU | None |
| Position Emission Tomography Storage | 1.2.840.10008.5.1.4.1.1.128 | SCU | None |
| RT Image Storage | 1.2.840.10008.5.1.4.1.1.481.1 | SCU | None |
| Grayscale Softcopy Presentation State Storage | 1.2.840.10008.5.1.4.1.1.11.1 | SCU | None |

| Transfer Syntax | |
|---------------------------|-------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |

2.3.2.3 Each Image Storage SOP Class

This provides conformance to each Image Storage SOP Class.

Acies uses C-STORE to store the image data in an image-storage device (SCP). The private data may be output, if necessary.

The received data in each Service Class accords with the DICOM standard.

Behavior: Acies executes C-STORE DIMSE service that conforms to a request on images in each reception authorized class.

Acies identifies the status of the C-STORE reply, and takes a proper action according to whether the service is complete successfully or unsuccessfully.

2.4 Specifications of Basic Worklist Management Service Class SCU

Acies supports the following SOP class as Basic Worklist Management Service Class SCU.

| SOP Class Name | Value |
|--|------------------------|
| Modality Worklist information Model - FIND | 1.2.840.10008.5.1.4.31 |

2.4.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.4.1.1 General

Acies Storage Service Class SCP identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.4.1.2 Number of Associations

Acies Basic Worklist Management Service Class SCU issues up to 1 Association establishment request at a time for an external AE, which is a different device.

2.4.1.3 Asynchronous Nature

A single image is only treated in the Association. Asynchronous processing is not supported.

2.4.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

2.4.2 Real-world Activity

2.4.2.1 Related Real-world Activity

Acies Basic Worklist Management Service Class SCU, in the real world where the Association is established, performs C-FIND and makes a request for Remote Management Worklist Management Service Class to receive patient/study information.

2.4.2.2 Table of Presentation Context

Acies Basic Worklist Management Service Class SCU makes a request by using the presentation context in the table below.

| Abstract Syntax | | | |
|--|------------------------|------|----------------------|
| Name | UID | Role | Extended Negotiation |
| Modality Worklist information Model - FIND | 1.2.840.10008.5.1.4.31 | SCU | None |

| Transfer Syntax | |
|---------------------------|-------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |

2.4.3 Modality Worklist Information Model Attribute

Modality Worklist attribute accords with the DICOM standard process.

2.5 Specifications of Query/Retrieve Service Class SCP

Acies supports the following SOP classes as Query/Retrieve Service Class SCP.

| SOP Class Name | Value |
|--|-----------------------------|
| Patient Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.1.1 |
| Patient Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.1.2 |
| 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 |
| Patient/Study Only Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.3.1 |
| Patient/Study Only Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.3.2 |

| Transfer Syntax | |
|---------------------------|-------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |

2.5.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.5.1.1 General

Acies Query/Retrieve Service Class SCU identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.5.1.2 Number of Associations

Acies Query/Retrieve Service Class SCU issues up to 1 Association establishment request at a time for an external AE, which is a different device.

2.5.1.3 Asynchronous Nature

A single image is only treated in the Association. Asynchronous processing is not supported.

2.5.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

2.5.2 Real-world Activity

2.5.2.1 Related Real-world Activity

Acies receives a search request from a remote AE, searches images in the internal database based on the request level, and sends the search result back.

2.5.2.2 Table of Presentation Context

The following presentation context IDs are accepted.

| Abstract Syntax | | | |
|--|-----------------------------|------|----------------------|
| SOP Class Name | UID | Role | Extended Negotiation |
| Patient Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.1.1 | SCU | None |
| Patient Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.1.2 | SCU | None |
| Study Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.2.1 | SCU | None |
| Study Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | SCU | None |
| Patient/Study Only Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.3.1 | SCU | None |
| Patient/Study Only Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.3.2 | SCU | None |

2.5.2.3 SOP-specific Conformance

Data items that can be searched can be changed by setting options. Default setting items are indicated below.

| Level | Tag | Type | Name |
|---------|-----------|------|-----------------------------------|
| Patient | 0010,0010 | R | Patient Name |
| | 0010,0020 | R | Patient ID |
| | 0010,0040 | R | Patient's Sex |
| Study | 0008,0020 | R | Study Date |
| | 0008,0050 | R | Accession Number |
| | 0020,0010 | R | Study ID |
| | 0020,1206 | O | Number of Study-related Series |
| | 0020,1208 | O | Number of Study-related Instances |
| | 0020,000D | U | Study Instance UID |
| Series | 0008,0060 | R | Modality |
| | 0020,000E | U | Series Instance UID |
| Image | 0008,0018 | U | SOP Instance UID |
| | 0020,0013 | R | Instance Number |

2.6 Specifications of Query/Retrieve Service Class SCU

Acies supports the following SOP classes as Query/Retrieve Service Class SCU.

| SOP Class Name | Value |
|--|-----------------------------|
| 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 |

| Transfer Syntax | |
|---------------------------|-------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |

2.6.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.6.1.1 General

Acies Query/Retrieve Service Class SCU identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.6.1.2 Number of Associations

Acies Query/Retrieve Service Class SCU issues up to 1 Association establishment request at a time for an external AE, which is a different device.

2.6.1.3 Asynchronous Nature

A single image is only treated in the Association. Asynchronous processing is not supported.

2.6.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

2.6.2 Real-world Activity

2.6.2.1 Related Real-world Activity

When a user selects Q/R SCP, performs searches based on search items such as Patient Name, Patient ID or Accession Number, Acies Q/R SCU AE gets activated. A user can obtain study/series/images. Images are received by Storage SCP AE, which is another Association.

2.6.2.2 Table of Presentation Context

The following presentation context IDs are accepted.

| Abstract Syntax | | | |
|--|-----------------------------|------|----------------------|
| Name | UID | Role | Extended Negotiation |
| Study Root Query/Retrieve Information Model - FIND | 1.2.840.10008.5.1.4.1.2.2.1 | SCU | None |
| Study Root Query/Retrieve Information Model - MOVE | 1.2.840.10008.5.1.4.1.2.2.2 | SCU | None |

2.6.2.3 SOP-specific Conformance

Acies performs hierarchical study-root searches.

| Level | Tag | Type | Name |
|--------|-----------|------|---------------------|
| Study | 0008,0020 | R | Study Date |
| | 0008,0050 | R | Accession Number |
| | 0010,0010 | R | Patient Name |
| | 0010,0020 | R | Patient ID |
| | 0010,0030 | R | Study ID |
| | 0010,0040 | R | Patient's Sex |
| | 0020,0010 | R | Study ID |
| | 0020,000D | U | Study Instance UID |
| Series | 0008,0060 | R | Modality |
| | 0020,000E | U | Series Instance UID |

2.7 Specifications of Print Management Service Class SCU

Acies supports the following SOP class as Print Management Service Class SCU.

| SOP Class Name | Value |
|---|------------------------|
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 |
| Presentation LUT SOP Class | 1.2.840.10008.5.1.1.23 |

2.7.1 Association Establishment Policy

The conditions to establish the Association are described below.

2.7.1.1 General

Acies Print Management Service Class SCU identifies and uses the following application context name.

| Content | Value |
|--------------------------|-----------------------|
| Application context name | 1.2.840.10008.3.1.1.1 |

The maximum and initial PDU size is 64KB.

2.7.1.2 Number of Associations

Acies Print Management Service Class SCU issues up to 1 Association establishment request at a time for an external AE, which is a different device.

2.7.1.3 Asynchronous Nature

A hard copy is only treated in the Association. Asynchronous processing is not supported.

2.7.1.4 Implementation Identifying Information

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|--|
| Implementation Class UID | 1.2.392.200036.9107.(632, 633, 634). Device serial number |
| Implementation Version Name | KC_IPACSEX_X.XX |

* A software version number is specified in X.XX.

SOP Instance UD, which is issued by SCP, of each of Basin Film session, Basic Film Box and Basic Grayscale Image Box is used.

2.7.2 Real-world Activity

2.7.2.1 Related Real-world Activity

A related real-world activity is to send images and various parameters to an image printing device (imager) to copy a film.

2.7.2.2 Table of Presentation Context

| Abstract Syntax | | | |
|---|------------------------|------|----------------------|
| SOP Class Name | UID | Role | Extended Negotiation |
| Basic Grayscale Print Management Meta SOP Class | 1.2.840.10008.5.1.1.9 | SCU | None |
| Presentation LUT SOP Class | 1.2.840.10008.5.1.1.23 | SCU | None |

| Transfer Syntax | |
|---------------------------|-------------------|
| Name | UID |
| Implicit VR Little Endian | 1.2.840.10008.1.2 |

2.7.2.3 Basic Film Session SOP Class

This provides conformance to Basic Film Session SOP Class.

Acies uses DIMSE service for film print for an image printing device (SCP).

Behavior: Acies executes DIMSE service, described in the table below, for SOP instance that conforms to a request in Basic Film Session attribute list.

Acies identifies the status of the DIMSE service reply, described in the table below, and takes a proper action according to whether the service is complete successfully or unsuccessfully.

| DIMSE service element | Usage SCU/SCP |
|-----------------------|---------------|
| N-CREATE | M/M |
| N-SET | U/M |
| N-DELETE | U/M |
| N-ACTION | U/U |

Basic Film Session Attribute List (N-CREATE/N-SET)

| Tag | Attribute Name | VR | VM | Usage |
|-------------|-------------------|----|----|-------|
| (2000,0010) | Copy Counts | IS | 1 | U/M |
| (2000,0020) | Printing Priority | CS | 1 | U/M |
| (2000,0030) | Media Type | CS | 1 | U/M |
| (2000,0040) | Film Destination | LO | 1 | U/U |

2.7.2.4 Basic Film Box SOP Class

This provides conformance to Basic Film Session SOP Class.

Acies uses DIMSE service for film print for an image printing device (SCP). The private data may be output, if necessary.

Behavior: Acies executes DIMSE service, described in the table below, for SOP instance that conforms to a request in Basic Film Box attribute list. Acies identifies the status of the DIMSE service reply, described in the table below, and takes a proper action according to whether the service is complete successfully or unsuccessfully.

| DIMSE service element | Usage SCU/SCP |
|-----------------------|---------------|
| N-CREATE | M/M |
| N-SET | U/M |
| N-DELETE | U/M |
| N-ACTION | U/U |

Basic Film Box Attribute List (N-CREATE/N-SET)

| Tag | Attribute Name | VR | VM | Usage |
|--------------|--------------------------------------|----|----|-------|
| (2010,0010) | Image Display Format | ST | 1 | M/M |
| (2010,0500) | Referenced Film Session Sequence | SQ | 1 | M/M |
| >(0008,1150) | Referenced SOP Class UID | UI | 1 | M/M |
| >(0008,1155) | Referenced SOP Instance UID | UI | 1 | M/M |
| (2010,0510) | Referenced Image Box Sequence | SQ | 1 | -/M |
| >(0008,1150) | Referenced SOP Class UID | UI | 1 | -/M |
| >(0008,1155) | Referenced SOP Instance UID | UI | 1 | -/M |
| (2010,0040) | Film Orientation | CS | 1 | U/M |
| (2010,0050) | Film Size ID | CS | 1 | U/M |
| (2010,0060) | Magnification Type | CS | 1 | U/M |
| (2010,0130) | Max Density | US | 1 | U/M |
| (2010,0150) | Configuration Information | ST | 1 | U/M |
| (2050,0500) | Referenced Presentation LUT Sequence | SQ | 1 | U/MC |
| >(0008,1150) | Referenced SOP Class UID | UI | 1 | U/MC |
| >(0008,1155) | Referenced SOP Instance UID | UI | 1 | U/MC |
| (2010,0030) | Annotation Display Format ID | CS | 1 | U/U |
| (2010,0080) | Smoothed Type | CS | 1 | U/U |
| (2010,0100) | Border Density | CS | 1 | U/U |
| (2010,0110) | Empty Image Density | US | 1 | U/U |
| (2010,0120) | Min Density | US | 1 | U/U |
| (2010,0140) | Trim | US | 1 | U/U |
| (2010,015E) | Illumination | US | 1 | U/MC |
| (2010,0160) | Reflected Ambient Light | US | 1 | U/MC |

* The LUT number of the imager is specified in (2010, 0150) configuration information, like "KC_LUT=1".

2.7.2.5 Basic Grayscale SOP Class

This provides conformance to Basic Grayscale Image BOX SOP Class.

Acies uses DIMSE service for film print for an image printing device (SCP).

Behavior: Acies executes DIMSE service, described in the table below, for SOP instance that conforms to a request in Basic Grayscale attribute list.

| DIMSE service element | Usage SCU/SCP |
|-----------------------|---------------|
| N-SET | M/M |

Basic Film Box Attribute List (N-CREATE/N-SET)

| Tag | Attribute Name | VR | VM | Usage |
|--------------|--------------------------------|----|----|-------|
| (2020,0010) | Image Position | US | 1 | M/M |
| (2020,0110) | Basic Grayscale Image Sequence | SQ | 1 | M/M |
| >(0028,0002) | Sample per Pixel | US | 1 | M/M |
| >(0028,0004) | Photometric Interpretation | CS | 1 | M/M |

| Tag | Attribute Name | VR | VM | Usage |
|--------------|----------------------|----------|----|-------|
| >(0028,0010) | Row | US | 1 | M/M |
| >(0028,0011) | Column | US | 1 | M/M |
| >(0028,0034) | Pixel Aspect Ratio | IS | 1 | MC/M |
| >(0028,0100) | Bits Allocated | US | 1 | M/M |
| >(0028,0101) | Bits Stored | US | 1 | M/M |
| >(0028,0102) | High Bit | US | 1 | M/M |
| >(0028,0103) | Pixel Representation | US | 1 | M/M |
| >(7FE0,0010) | Pixel Data | OW or OB | 1 | M/M |
| (2020,0020) | Polarity | CS | 1 | U/M |
| (2020,0030) | Requested Image Size | DS | 1 | U/U |

2.7.2.6 Printer SOP Class

This provides conformance to Printer SOP Class.

Acies uses DIMSE service for obtaining device information from an image printing device (SCP). The private data may be output, if necessary.

Behavior: Acies executes DIMSE service, described in the table below, for SOP instance that conforms to a request in Printer SOP attribute list. Acies identifies the status of the DIMSE service reply, described in the table below, and takes a proper action according to whether the service is complete successfully or unsuccessfully.

| DIMSE service element | Usage SCU/SCP |
|-----------------------|---------------|
| N-GET | U/M |

Printer SOP Attribute List (N-GET)

| Tag | Attribute Name | VR | VM | Usage |
|--------------|-------------------------|----|-----|-------|
| (2110,0010) | Printer Status | CS | 1 | U/M |
| (2110,0020) | Printer Status Info | CS | 1 | U/M |
| (2110,0030) | Printer Name | LO | 1 | U/U |
| (0008,0070) | Manufacturer | LO | 1 | U/U |
| (0008,10190) | Manufacturer Model Name | LO | 1 | U/U |
| (0018,1000) | Device Serial Number | LO | 1 | U/U |
| (0018,1020) | Software Versions | LO | 1 | U/U |
| (0018,1200) | Date Last Calibration | DA | 1-n | U/U |
| (0018,1201) | Time Last Calibration | TM | 1-n | U/U |

2.7.2.7 Presentation LUT SOP Class

This provides conformance to Presentation LUT SOP Class.

Acies uses DIMSE service for sending presentation LUT that is applied to film print for an image printing device (SCP).

Behavior: Acies executes DIMSE service, described in the table below, for SOP instance that conforms to a request in Presentation LUT attribute list. Acies identifies the status of the DIMSE service reply, described in the table below, and takes a proper action according to whether the service is complete successfully or unsuccessfully.

| DIMSE service element | Usage SCU/SCP |
|-----------------------|---------------|
| N-CREATE | M/M |
| N-DELETE | U/M |

Presentation LUT Attribute List (N-CREATE)

| Tag | Attribute Name | VR | VM | Usage |
|--------------|---------------------------|----------------|----|-------|
| (2050,0010) | Presentation LUT Sequence | SQ | 1 | MC/M |
| >(0028,3002) | LUT Descriptor | US or SS | 1 | MC/M |
| >(0028,3006) | LUT Data | US or SS or OW | 1 | MC/M |
| (2050,0020) | Presentation LUT Shape | CS | 1 | MC/M |

2.8 Specifications of Media Storage

2.8.1 File Meta Information for the Application Entity

Values for identifying information are issued by Konica Minolta.

| Content | Value |
|-----------------------------|-------------------------|
| Implementation Class UID | 1.2.392.200036.9107.700 |
| Implementation Version Name | MG.DICOM XXXXX |

* A software version number is specified in X.XX.

2.8.2 Real-world Activity

2.8.2.1 Related Real-world Activity

Acies Media Storage does the followings:

- Export image Files
Working as FSC that uses the interchange option in which direction for creating CD/DVD from a list is present, with user operations.
- Import Image Files
Working as FSR that uses the interchange option in which direction for reading CD/DVD is present, with user operations.
- Add Image Files
Working as FSU that uses the interchange option in which direction for updating CD/DVD is present, with user operations. This makes it possible to update and save patient/study information to the local storage, as well.

2.8.2.2 SOP Class Specifications

IOD and Transfer Syntax for STD-US-ID-SF/MF

| Information Object Definition | SOP Class UID | Transfer Syntax | Transfer Syntax UID |
|-------------------------------|----------------------|---|--|
| Basic Directory | 1.2.840.10008.1.3.10 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Ultrasound Image | | Explicit VR Little Endian Explicit VR Little Endian JPEG Baseline | 1.2.840.10008.1.2.1 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 |
| Ultrasound Multiframe Image | | Explicit VR Little Endian Explicit VR Little Endian JPEG Baseline | 1.2.840.10008.1.2.1 1.2.840.10008.1.2 1.2.840.10008.1.2.4.50 |

IOD and Transfer Syntax for STD-US-ID-SF/MF

| Information Object Definition | SOP Class UID | Transfer Syntax | Transfer Syntax UID |
|-------------------------------|-------------------------|---|--|
| Basic Directory | 1.2.840.10008.1.3.10 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| CT Image | 1.2.840.10008.1.4.1.1.2 | Explicit VR Little Endian Implicit VR Little Endian JPEG Lossless | 1.2.840.10008.1.2.1 1.2.840.10008.1.2 1.2.840.10008.1.2.4.70 |
| MR Image | 1.2.840.10008.1.4.1.1.4 | Explicit VR Little Endian Implicit VR Little Endian JPEG Lossless | 1.2.840.10008.1.2.1 1.2.840.10008.1.2 1.2.840.10008.1.2.4.70 |
| SC Image | 1.2.840.10008.1.4.1.1.7 | Explicit VR Little Endian Implicit VR Little Endian JPEG Lossless | 1.2.840.10008.1.2.1 1.2.840.10008.1.2 1.2.840.10008.1.2.4.70 |

IOD and Transfer Syntax for STD-GEN-CD

| Information Object Definition | SOP Class UID | Transfer Syntax | Transfer Syntax UID |
|---|--------------------------------|---------------------------|---------------------|
| Basic Directory | 1.2.840.10008.1.3.10 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| CR (Computed Radiography) Image | 1.2.840.10008.5.1.4.1.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital Mammography Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital Mammography Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.2.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital Intra-oral X-Ray Image Storage (for presentation) | 1.2.840.10008.5.1.4.1.1.1.3 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Digital Intra-oral X-Ray Image Storage (for processing) | 1.2.840.10008.5.1.4.1.1.1.3.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| CT Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| US Multi-Frame Image Storage | 1.2.840.10008.5.1.4.1.1.3.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| MR Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.4 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| US Image Storage | 1.2.840.10008.5.1.4.1.1.6.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| SC (Secondary Capture) Image Storage | 1.2.840.10008.5.1.4.1.1.7 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| XA Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| XRF Image Information Object Storage | 1.2.840.10008.5.1.4.1.1.12.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| NM Image Storage | 1.2.840.10008.5.1.4.1.1.20 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| VL Endoscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| VL Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.2 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| VL Slide-Coordinates Microscopic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.3 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| VL Photographic Image Storage | 1.2.840.10008.5.1.4.1.1.77.1.4 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Position Emission Tomography Storage | 1.2.840.10008.5.1.4.1.1.128 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| RT Image Storage | 1.2.840.10008.5.1.4.1.1.481.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |
| Grayscale Softcopy Presentation State Storage | 1.2.840.10008.5.1.4.1.1.11.1 | Explicit VR Little Endian | 1.2.840.10008.1.2.1 |

3. COMMUNICATIONS PROFILES

3.1 Supported Communications Stacks

TCP/IP Network Communication Support that is defined in DICOM3.0 PART8 is provided.

3.2 TCP/IP Stack

TCP/IP stack is inherited from Windows environment.

3.2.1 Physical Media Support

100BASE-TX is supported as a standard for TCP/IP.

4. Expansion/Specialization/Privatization

(0033, A000) in Storage Service Class Image IOD is used as private data.

However, they are transferred, if necessary.

5. Configuration Information

5.1 Handling AE Title and Presentation Address

An AE title for this soft ware depends on settings.

5.2 Configuration Parameters

5.2.1 Configuration Information About This Software

The following items can be set.

- 1) AE title Default = KC_IPEX_P001
- 2) TCP/IP Port number

5.2.2 Configuration Information About Remote AE

The following items can be set.

- 1) AE title
- 2) TCP/IP Port number

6. Supported Extended Character Set

For the element whose VR is SH, LO, ST, LT or PN, extended characters can be used by specifying a repertory of extended characters to attribute specific character (0008,0005) set in each Service Class.

The following repertories of extended characters are supported.

- .ISO 2022 IR 6
- \ISO 2022 IR 87
- .ISO 2022 IR 13\ISO 2022 IR 87
- \ISO 2022 IR 13\ISO 2022 IR 87
- \ISO 2022 IR 87\ISO 2022 IR 159
- .ISO_IR 100



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