

DICOM Conformance Statement

Product details:
Product type:
Data Analysis Software, Ultrasound
Image Management Software
Product Name:
syngo® US Workplace 1.x (syngo US Workplace -DicomSCP)
Manufacturer:
Siemens Medical Solutions
Used standards:
COCA CIAITAATACI

ACR-NEMA Digital Imaging and Communications in Medicine, DICOM V3.0



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1 Introduction

This document describes the conformance of the *syngo US Workplace* 1.x product to the ACR-NEMA DICOM standard and satisfies the DICOM requirement for a vendor conformance specification. It is intended to provide the reader with the knowledge of how to integrate this product within a DICOM compliant hospital network.

1.1 Intended Audience

The reader of this document is involved with design of medical software or medical system integration. We assume that the reader is familiar with the DICOM 3.0 standard terminology and concepts. It is recommended for readers not familiar with DICOM 3.0 terminology that they read the DICOM specification (referenced below) prior to reading this conformance statement.

This conformance statement is intended to facilitate the communication with other imaging equipment. However, it does not guarantee by itself the inter-operation of the connection. The integration of any device into a system of interconnected devices goes beyond the scope of the DICOM 3.0 standard and this conformance statement when interoperability is desired. It is the user's responsibility to analyse the applications requirements and to develop a solution that integrates the *syngo* US Workplace equipment with other vendors' systems. It is also the user's task to validate the complete range of communication possibilities between the *syngo* US Workplace equipment and the devices to be connected to.

The *syngo* US Workplace product will follow the evolution of the DICOM 3.0 standard. This evolution may require changes to devices that have implemented DICOM 3.0. To guarantee future interoperability, the user should ensure that any provider connecting with *syngo* US Workplace devices will follow future evolution of the DICOM standard.



1.2 Acronyms, Abbreviations

The following acronyms and abbreviations are used in this document:

ACR American College of Radiology

AE Application Entity

DICOM Digital Imaging and Communications in Medicine **NEMA** National Electrical Manufacturers Association

PDU Protocol Data Unit
SCP Service Class Provider
SCU Service Class User
SCP Service Class Provider
SOP Service-Object Pair

DIMSE DICOM Message Service Element

TCP/IP Transmission Control Protocol/Internet Protocol

UID Unique Identifier

1.3 References

This document is written with respect to the ACR-NEMA Digital Imaging and Communications in Medicine (DICOM) version number 3.0.



2 Implementation model

The syngo US Workplace product serves for acquiring, processing, storing and communicating medical image data. It is composed of two applications with different functionalities: the syngo US Workplace application and the syngo US Workplace -DicomSCP application. In this document, we refer to the two components as "syngo US Workplace application" and "syngo US Workplace -DicomSCP application". The entire Syngo US Workplace product is referred as "Syngo US Workplace product" or simply "syngo US Workplace".

2.1 Application Data Flow Diagram

The *syngo* US Workplace application and *syngo* US Workplace -DicomSCP application work on the same database. Figure 2.1 shows the DICOM interface of the *syngo* US Workplace product.

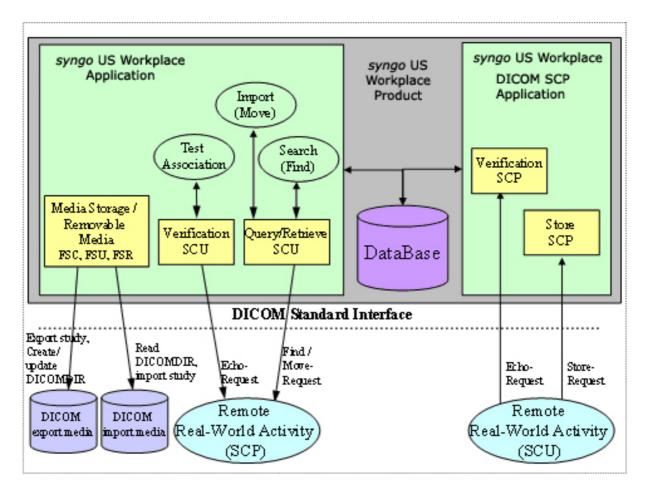


Figure 2.1 syngo US Workplace - DICOM Interface



2.2 Functional Definition of AE's

The *syngo* US Workplace application implements DICOM SCU functionalities for verification and query/retrieve. It also implements DICOM Media Storage. The *syngo* US Workplace -DicomSCP application has SCP functionalities that allow verification and storage.

The following table summarises the DICOM Services supported by syngo US Workplace:

DICOM (DIMSE) Service	SCU	SCP
Verification (C-ECHO)	Yes	Yes
Storage (C-STORE)	No	Yes
Query (C-FIND)	Yes	No
Retrieve (C-MOVE)	Yes	No

Table 2.2.1. DICOM services supported by syngo US Workplace.

2.2.1 Verification

The *syngo* US Workplace application supports the C-ECHO DIMSE-C service as SCU. The RA-DicomSCP application supports the C-ECHO DIMSE-C service as SCP.

2.2.2 Storage

The syngo US Workplace -DicomSCP application implements the C-STORE DIMSE-C service as SCP. It extracts the Patient, Study, Series, Image and Structured Report information from the received data and stores it to its database.

The syngo US Workplace product does not support Storage Commitment.

2.2.3 Query and Retrieve

The syngo US Workplace application supports the C-ECHO DIMSE-C service as SCU.

The *syngo* US Workplace application implements the C-FIND DIMSE-C service as SCU. It is able to issue DICOM queries (C-FIND Requests) and interprets the responses coming from the foreign SCP.

The *syngo* US Workplace application implements the C-MOVE DIMSE-C service as SCU. It is able to issue DICOM move (C-MOVE) requests and interprets the move responses. It uses the RA-DicomSCP's Storage functionality to receive the required DICOM files and to store them into DB.

2.3 Sequencing of Real-World Activities

Not Applicable.



3 AE Specifications

The syngo US Workplace AE-Title is configurable from the syngo US Workplace application.

3.1 Media Storage

3.1.1 Associated Real-World Activity: Media Storage

syngo US Workplace is capable of importing/exporting studies to/from DICOM media. A DICOM conformant data format layer is created when a non-conformant media is specified as DICOM Media export location. A DICOMDIR is created at first study export, the existing DICOMDIR is updated at exporting further studies.

Studies can be exported by selecting the study and choosing the *Copy to DICOM Media* option in the study selection dialog. If a study contains images and reports in non-DICOM format, at study export only the DICOM images and reports are added to the DICOMDIR.

There is a possibility to export standalone clips or images in DICOM format without exporting the whole study (right click on the image and choose *Copy to DICOM Media*). In this case only the US single frame or multi-frame image is created, without updating the DICOMDIR.

Studies can be imported from DICOM Media import locations. (Switch to the Import tab and enter a valid DICOM Media.) The list of studies contained in the DICOMDIR is read and displayed, the user can select one or more studies to be imported into the *syngo* US Workplace database.

3.1.2 Presentation Contexts

The DICOM Media Storage functionality operates with the following SOP classes.

SOP Class	SOP Class UID
Media Storage Directory Storage SOP Class	1.2.840.10008.1.3.10
Comprehensive Structured Reports	1.2.840.10008.5.1.4.1.1.88.33
Ultrasound Multiframe Image Storage	1.2.840.10008.5.1.4.1.1.3.1
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1

Table 3.1.1. Media Storage: Supported SOP classes.

syngo US Workplace supports the following presentation contexts in the different media storage roles.

Abstract Syntax Name and UID	Transfer Syntax Name and UID	Media Storage Role
Media Storage Directory Storage (DICOMDIR)	LittleEndianExplicitTransferSyntax 1.2.840.10008.1.2.1	FSC, FSU, FSR
1.2.840.10008.1.3.10		
Comprehensive Structured Reports	LittleEndianExplicitTransferSyntax	FSC, FSU, FSR
1.2.840.10008.5.1.4.1.1.88.33	1.2.840.10008.1.2.1	
Ultrasound Multiframe Image Storage	Original transfer syntax of the	FSC, FSU, FSR



(JPE	ame image G, RLE or uncompressed)
1.2.840.10008.5.1.4.1.1.6.1 imag	al transfer syntax of the FSC, FSU, FSR S, RLE or uncompressed)

Table 3.1.2 Media Storage: Supported Presentation Contexts.

3.1.3 SOP Specific Conformance: Media Storage

syngo US Workplace implements the Interchange Option of the DICOM Media Storage functionality. It does not support the Directory Information Module. It can play the following roles at handling with file sets: File Set Creator (FSC) role, File Set Updater (FSU) role and File Set Reader (FSR) role. syngo US Workplace provides Standard Conformance to the DICOM Media Storage Service (PS.3.10). It generates and reads a File-Set under the STD-US class of Application Profiles (PS.3.11). It provides standard conformance to the SOP Classes presented in Table 3.1.1 according to the DICOM V3.0 Standard (PS.3 3).

3.2 Specification of DICOM Services

syngo US Workplace provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP:

3.2.1 Verification as SCU and SCP

SOP Class	SOP Class UID
Verification	1.2.840.10008.1.1

Table 3.2.1. Verification SOP class.

3.2.2 Storage as SCP

syngo US Workplace provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCP. Part of all of this list has to be specified in the syngo US Workplace inifile in order to configure which SOP Classes are supported.

SOP Class	SOP Class UID
AmbulatoryECGWaveformStorage	1.2.840.10008.5.1.4.1.1.9.1.3
BasicTextSR	1.2.840.10008.5.1.4.1.1.88.11
BasicVoiceAudioWaveformStorage	1.2.840.10008.5.1.4.1.1.9.4.1
CTImageStorage	1.2.840.10008.5.1.4.1.1.2
CardiacElectrophysiologyWaveformStorage	1.2.840.10008.5.1.4.1.1.9.3.1
ComprehensiveSR	1.2.840.10008.5.1.4.1.1.88.33
ComputedRadiographyImageStorage	1.2.840.10008.5.1.4.1.1.1
DRAFT_SRAudioStorage	1.2.840.10008.5.1.4.1.1.88.2
DRAFT_SRComprehensiveStorage	1.2.840.10008.5.1.4.1.1.88.4
DRAFT_SRDetailStorage	1.2.840.10008.5.1.4.1.1.88.3
DRAFT_SRTextStorage	1.2.840.10008.5.1.4.1.1.88.1
DRAFT_WaveformStorage	1.2.840.10008.5.1.4.1.1.9.1
DigitalIntraOralXRayImageStorageForPresentation	1.2.840.10008.5.1.4.1.1.1.3



DigitalIntraOralXRayImageStorageForProcessing	1.2.840.10008.5.1.4.1.1.3.1
DigitalMammographyXRayImageStorageForPresentation	1.2.840.10008.5.1.4.1.1.1.2
DigitalMammographyXRayImageStorageForProcessing	1.2.840.10008.5.1.4.1.1.2.1
DigitalXRayImageStorageForPresentation	1.2.840.10008.5.1.4.1.1.1.1
DigitalXRayImageStorageForProcessing	1.2.840.10008.5.1.4.1.1.1.1
EnhancedSR	1.2.840.10008.5.1.4.1.1.88.22
GeneralECGWaveformStorage	1.2.840.10008.5.1.4.1.1.9.1.2
GrayscaleSoftcopyPresentationStateStorage	1.2.840.10008.5.1.4.1.1.11.1
HardcopyColorImageStorage	1.2.840.10008.5.1.1.30
HardcopyGrayscaleImageStorage	1.2.840.10008.5.1.1.29
HemodynamicWaveformStorage	1.2.840.10008.5.1.4.1.1.9.2.1
MRImageStorage	1.2.840.10008.5.1.4.1.1.4
NuclearMedicineImageStorage	1.2.840.10008.5.1.4.1.1.5
PETCurveStorage	1.2.840.10008.5.1.4.1.1.129
PETImageStorage	1.2.840.10008.5.1.4.1.1.481.1
RETIRED_NuclearMedicineImageStorage	1.2.840.10008.5.1.4.1.1.5
RETIRED_UltrasoundImageStorage	1.2.840.10008.5.1.4.1.1.6
RETIRED_UltrasoundMultiframeImageStorage	1.2.840.10008.5.1.4.1.1.3
RETIRED_VLImageStorage	1.2.840.10008.5.1.4.1.1.77.1
RETIRED_VLMultiFrameImageStorage	1.2.840.10008.5.1.4.1.1.77.2
RETIRED_XRayAngiographicBiPlaneImageStorage	1.2.840.10008.5.1.4.1.1.12.3
RTBeamsTreatmentRecordStorage	1.2.840.10008.5.1.4.1.1.481.4
RTBrachyTreatmentRecordStorage	1.2.840.10008.5.1.4.1.1.481.6
RTDoseStorage	1.2.840.10008.5.1.4.1.1.481.2
RTImageStorage	1.2.840.10008.5.1.4.1.1.481.1
RTPlanStorage	1.2.840.10008.5.1.4.1.1.481.5
RTStructureSetStorage	1.2.840.10008.5.1.4.1.1.481.3
RTTreatmentSummaryRecordStorage	1.2.840.10008.5.1.4.1.1.481.7
SecondaryCaptureImageStorage	1.2.840.10008.5.1.4.1.1.7
StandaloneCurveStorage	1.2.840.10008.5.1.4.1.1.9
StandaloneModalityLUTStorage	1.2.840.10008.5.1.4.1.1.10
StandaloneOverlayStorage	1.2.840.10008.5.1.4.1.1.8
StandaloneVOILUTStorage	1.2.840.10008.5.1.4.1.1.11
StoredPrintStorage	1.2.840.10008.5.1.1.27
TwelveLeadECGWaveformStorage	1.2.840.10008.5.1.4.1.1.9.1.1
UltrasoundImageStorage	1.2.840.10008.5.1.4.1.1.6.1
UltrasoundMultiframeImageStorage	1.2.840.10008.5.1.4.1.1.3.1
VLEndoscopicImageStorage	1.2.840.10008.5.1.4.1.1.77.1.1
VLMicroscopicImageStorage	1.2.840.10008.5.1.4.1.1.77.1.2
VLPhotographicImageStorage	1.2.840.10008.5.1.4.1.1.77.1.4
VLSlideCoordinatesMicroscopicImageStorage	1.2.840.10008.5.1.4.1.1.77.1.3
XRayAngiographicImageStorage	1.2.840.10008.5.1.4.1.1.12.1
XRayFluoroscopyImageStorage	1.2.840.10008.5.1.4.1.1.12.2
MammographyCADSR	1.2.840.10008.5.1.4.1.1.88.50
MultiframeSingleBitSecondaryCaptureImageStorage	1.2.840.10008.5.1.4.1.1.7.1
MultiframeGrayscaleByteSecondaryCaptureImageStorage	1.2.840.10008.5.1.4.1.1.7.2
MultiframeGrayscaleWordSecondaryCaptureImageStorage	1.2.840.10008.5.1.4.1.1.7.3



MultiframeTrueColorSecondaryCaptureImageStorage	1.2.840.10008.5.1.4.1.1.7.4
KeyObjectSelectionDocument	1.2.840.10008.5.1.4.1.1.88.59

Table 3.2.2 Storage SOP Classes.

syngo US Workplace provides Standard Conformance to the following DICOM V3.0 SOP Classes as an SCU:

3.2.3 Query/Retrieve as SCU

SOP Class	SOP Class UID
Patient/Study Only Query/Retrieve IM Find	1.2.840.10008.5.1.4.1.2.3.1
Study Root Query/Retrieve IM Find	1.2.840.10008.5.1.4.1.2.2.1
Study Root Query/Retrieve IM Move	1.2.840.10008.5.1.4.1.2.2.2

Table 3.2.3 Storage SOP Classes.

3.2.4 Supported Transfer Syntaxes

syngo US Workplace supports as SCU and as SCP all the above listed verification, storage and query/retrieve SOP Classes with the following transfer syntaxes, if not otherwise specified later in this document.

Transfer Syntax Name	Transfer Syntax UID
LittleEndianImplicitTransferSyntax (Uncompressed, default)	1.2.840.10008.1.2
BigEndianExplicitTransferSyntax (Uncompressed)	1.2.840.10008.1.2.2
LittleEndianExplicitTransferSyntax (Uncompressed)	1.2.840.10008.1.2.1
RLELossless	1.2.840.10008.1.2.5
JPEGProcess14SV1TransferSyntax	1.2.840.10008.1.2.4.70
JPEGProcess1TransferSyntax	1.2.840.10008.1.2.4.50
JPEGProcess2_4TransferSyntax	1.2.840.10008.1.2.4.51

Table 3.2.4 Supported Transfer Syntaxes.

3.3 Association Establishment Policies

3.3.1 General

syngo US Workplace will attempt to establish an association whenever it is invoked with valid parameters (including a known destination and valid DICOM format files, containing valid group 0002 header, abstract syntax and transfer syntax).

syngo US Workplace limits the maximum PDU size to 16KB.

3.3.2 Number of Associations

There is no inherent limit to the number of associations other than limits imposed by the computer's operating system.



3.3.3 Asynchronous Nature

syngo US Workplace allows a single outstanding operation at a time on any association. However, multiple associations can exist and operate simultaneously.

3.3.4 Implementation Identifying Information

syngo US Workplace has the following implementation identifying parameters:

- Implementation Class UID: 1.2.276.0.7230010.3.0.3.5.0
- Implementation Version Name: OFFIS_DCMTK_350
- All DICOM UIDs generated by syngo US Workplace begin with the registration number: 1.2.276.0.48

3.3.5 Association Initiation Policy

syngo US Workplace can initiate associations only to the AETitles registered by the syngo US Workplace application.

An association will be initiated in the following cases:

- syngo US Workplace sends a verification request to a remote DICOM host.
- syngo US Workplace stores one or more DICOM files to a remote DICOM host (this happens at incoming move requests).
- syngo US Workplace sends a query request to a remote DICOM host.
- syngo US Workplace sends a move request to a remote DICOM host.

If *syngo* US Workplace initiates an association for storing files, it offers the original transfer syntax of a DICOM file followed by the three uncompressed transfer syntaxes. It supports decoding but does not support encoding of DICOM files. *syngo* US Workplace can send more than one file on an association, if the files have the same original transfer syntax.

At associations for verification, query or move requests, *syngo* US Workplace offers the uncompressed transfer syntaxes.

3.3.5.1 Verification SCU Conformance

Associated Real World Activity - Verification

syngo US Workplace will issue **Verification** requests in order to check if an SCP has the ability to receive DICOM requests.

• Presentation Context - Verification

syngo US Workplace will use any of the following Presentation Contexts for Verification.

SOP Class	Transfer Syntax	Role	Extended Negotiation
All Table 3.2.1	Uncompressed transfer syntaxes from Table 3.2.4	SCU	None

Table 3.3.1 Presentation contexts for Verification.

• SOP Specific Conformance - Verification



syngo US Workplace provides standard conformance to the DICOM Verification Service Class.

3.3.5.2 Find SCU Conformance

Associated Real World Activity - Find SCU

syngo US Workplace can send find requests to an SCP. Find requests are invoked by user interaction:

Go to the QueryRetrieve tab, select the desired DICOM SCP host in the "Import from" drop-down list, set the query filters and press Search.

Proposed Presentation Contexts - Find SCU

syngo US Workplace can negotiate for the following presentation contexts for Find:

SOP Class	Transfer Syntax	Role	Extended Negotiation
All Table 3.2.3 SCU Find	Uncompressed transfer syntaxes from Table 3.2.4	SCU	None

Table 3.3.2. Presentation contexts for find.

SOP Specific Conformance - Find SCU

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.

A C-ECHO request is sent before each C-FIND to ensure that the SCP host is available. If no response to the echo request is received, the find request will not be sent.

syngo US Workplace usually issues query requests on Study level. The used Information Model can be configured in the inifile: Patient/Study Only or Study Root Information Model are supported.

Queried fields at study level are:

- o Patient ID (single value and wildcard matching)
- o Patient Last Name and First Name (single value and wildcard matching)
- Patient Birth Date (single value matching)
- Patient Sex (universal matching)
- Study Instance UID (universal matching)
- Study ID (universal matching)
- Study Date (universal matching)
- Study Time (universal matching)
- Accession Number (universal matching)
- Referring Physicians Name (universal matching)
- o Modalities in Study (single value / multiple value / wildcard matching)

3.3.5.3 Move SCU Conformance

Associated Real World Activity - Move SCU



syngo US Workplace will initiate retrieve requests to an SCP. Move requests are invoked by user interaction: after a find request has been executed, one or more studies can be selected from the resulting study list. The Import button executes a C-MOVE request for the selected studies.

Proposed Presentation Contexts - Move SCU

syngo US Workplace can negotiate for the following presentation contexts for Move.

SOP Class	Transfer Syntax	Role	Extended Negotiation
All Table 3.2.3 SCU Move	Uncompressed transfer syntaxes from Table 3.2.4	SCU	None

Table 3.3.3. Presentation contexts for Move.

• SOP Specific Conformance - Move SCU

syngo US Workplace will try to establish an association with the move destination specified in the C-MOVE request. One or more of the Presentation Contexts listed in the above table may be negotiated in this association.

syngo US Workplace usually issues move requests on Study level with Study Root Information Model.

Usual Move-request fields at study level are:

- Study Instance UID (single value matching)
- Study ID (universal matching)
- Study Date (universal matching)
- Study Time (universal matching)
- Accession Number (universal matching)
- Referring Physicians Name (universal matching)

3.3.6 Association Acceptance Policy

The AE title of syngo US Workplace can be configured using the GUI interface as described in section 3.2.1.

syngo US Workplace accepts associations to allow remote DICOM hosts to:

- Send verification requests to syngo US Workplace.
- Store images and structured reports to syngo US Workplace.

syngo US Workplace places no limitations on who may connect to it, nor on the number of simultaneous connects it will support. When syngo US Workplace accepts an association, it will receive any DICOM C-ECHO, C-STORE requests coming on that association that conform to the negotiated terms.

3.3.6.1 Verification SCP Conformance

Associated Real World Activity - Verification

syngo US Workplace will respond to **Verification** requests in order to provide an SCU with the ability to determine if syngo US Workplace is receiving DICOM requests.



Presentation Context Table - Verification

syngo US Workplace will accept any of the following Presentation Contexts for Verification:

SOP Class	Transfer Syntax	Role	Extended Negotiation
All Table 3.2.1	Uncompressed transfer syntaxes from	SCP	None
	Table 3.2.4		

Table 3.3.4. Presentation contexts for Verification.

• SOP Specific Conformance - Verification

syngo US Workplace provides standard conformance to the DICOM **Verification** Service Class. *syngo* US Workplace returns one of the following status codes:

Service Status	Further Meaning	Protocol Codes	Description
Success	Success	0000	Operation performed properly.

Table 3.3.5. Verification status codes.

3.3.6.2 Storage SCP Conformance

Associated Real World Activity - Storage

syngo US Workplace will store all DICOM files that are sent to it from an SCU. It extracts patient, study and series information from the stored files and writes this information into its database.

• Presentation Context Table - Storage

syngo US Workplace will accept any of the following Presentation Contexts for Storage.

SOP Class	Transfer Syntax	Role	Extended Negotiation
All from Table 3.2.2	Table 3.2.4	SCP	None

Table 3.3.6. Presentation contexts for storage.

• SOP Specific Conformance - Storage

syngo US Workplace provides standard conformance to the DICOM **Storage** Service Class. No elements are discarded or coerced by Research-Arena. In the event of a successful **C-STORE** operation, the DICOM file has been written to the database. *syngo* US Workplace implements no DICOM Storage Commitment. This means that *syngo* US Workplace may delete the stored files at a later time. *syngo* US Workplace can display only DICOM files of Image and Structured Report types, but all the stored files of a study can be retrieved later if they were not already deleted.



syngo US Workplace returns one of the following status codes:

Service Status	Further Meaning	Protocol Codes	Description
Success	Success	0000	Operation performed properly.
Failed	Failed	C000	The operation was not successful.
Refused	Out of resources	A700	Indicates that there was not enough storage space to store the image.
Error	Cannot understand	C005	Indicates that the Data Set cannot be parsed into elements.
Error	Data set does not match SOP Class	A900	Indicates that the Data Set does not encode an instance of the SOP Class specified.

Table 3.3.7. C-STORE status codes.

• Presentation Context Acceptance Criterion - Storage

syngo US Workplace will accept any number of **Storage** Presentation Contexts per association request. Any Abstract Syntax may be specified more than once in an association request, if the Transfer Syntaxes differ between the Presentation Contexts.

• Transfer Syntax Selection Policies - Storage

syngo US Workplace supports all transfer syntaxes listed in Table 3.2.4. At negotiation, syngo US Workplace accepts the last common transfer syntax from Table 3.2.4. Extended negotiation is not supported. syngo US Workplace cannot perform image conversion.

4 Communications profiles

4.1 Supported Communication Stacks

syngo US Workplace provides DICOM V3.0 TCP/IP Network Communication Support as defined in Part 8 of the DICOM Standard.

4.2 TCP/IP Stack

syngo US Workplace inherits its TCP/IP stack from the computer system upon which it executes.

4.2.1 Physical Media Support

syngo US Workplace 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, Privatizations

Not applicable.

6 Configuration

Mapping from Application Entity Title to Presentation Address is provided by the database and configured with the *syngo* US Workplace application.

7 Support for Extended Character Sets

syngo US Workplace supports the following character sets:

ISO-IR 100: Latin Alphabet No. 1