

# AGFA HEALTHCARE DICOM Conformance Statement



## SCU Print Management Service Class

***Supported Agfa Products:  
MG3000/Drystar 2000/Drystar 3000***

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## Document Information

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# 1 INTRODUCTION

## 1.1 Revision Record

Dicom Conformance Statement Template node ID: 8818332		
Revision Number	Date	Reason for Change
1.0	January 2007	Final revision
1.1	June 2007	B.L.: Add table with template node ID of DCS in Revision Record. Minor cosmetic changes

Dicom Conformance Statement SCU Print Management Service Class			
Revision Number	Date	Author	Reason for Change
1.0	12/6/00	Hitzelberger	Create file "pso.doc" conformance claim
1.1	12/18/00	Hitzelberger	PSO changed to SCU; removed SCP items
1.2	12/20/00	Hitzelberger	Released 20/12/00
2.0	21/12/00	Weise	Update in DCMS
2.1	21/12/00	Weise	Released 21/12/00
2.2	3/1/01	Lang	Minor post-release correction
2.3	28/08/2005	L. De Wolf	Revision / update editing & layout
3.0	09/01/2009	P. Buytaert	Update editing & layout

## 1.2 Intended Audience

The user of this document is involved with system integration and/or software design. We assume that the reader is familiar with the terminology and concepts that are used in the DICOM 3.0 standard.

Readers not familiar with DICOM 3.0 terminology should first read the appropriate parts of the DICOM standard itself, prior to reading this conformance statement.

Although the use of this conformance statement in conjunction with the DICOM 3.0 standard is intended to facilitate communication with Agfa imaging equipment, it is not sufficient to guarantee, by itself, the inter-operation of the connection. The following issues need to be considered:

## 1.3 General Remarks

### 1.3.1 Integration

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. The responsibility for analyzing the applications requirements and developing a solution that integrates the Agfa equipment with other vendors' systems is the user's responsibility and should not be underestimated.

### 1.3.2 Validation

Testing the complete range of possibilities between the Agfa equipment and non-Agfa devices, before the connection is declared operational, is deemed to be a necessity. The user should ensure that any non-Agfa provider accepts full responsibility for all validation required for their connection with the Agfa equipment. The accuracy of image data once it has crossed the interface between the Agfa equipment and the non-Agfa device as well as the stability of the image data for the intended applications is the responsibility of the non-Agfa provider.

### 1.3.3 Future Evolution

As the DICOM 3.0 standard evolves to meet the user's growing requirements and to incorporate new features and technologies, Agfa will follow the evolution of the standard. This evolution of the standard may require changes to devices that have implemented DICOM 3.0. The user should ensure that any non-Agfa provider, who connects with Agfa devices, also plans future evolution of the DICOM standard. A refusal to do so may reflect in the loss of functionality and/or connectivity between the different products.

## 1.4 Purpose of this Document

This conformance statement specifies the compliance of the Print Management Service Class SCU component with the DICOM standard. The Print Management Service Class SCU component is an implementation of the DICOM 3.0 standard for print management. The Print Management Service Class SCU component is used to send images to a hardcopy printer for printing on film or paper. The Print Management Service Class SCU component acts as a Service Class User (SCU) for the sole purpose of routing print jobs to another DICOM Print Server (SCP) for printing.

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### **Note:**

Refer to the Conformance Statements Overview document to get an overview of all Conformance Statements and their relationship to one another.

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## 1.5 Acronyms and Abbreviations

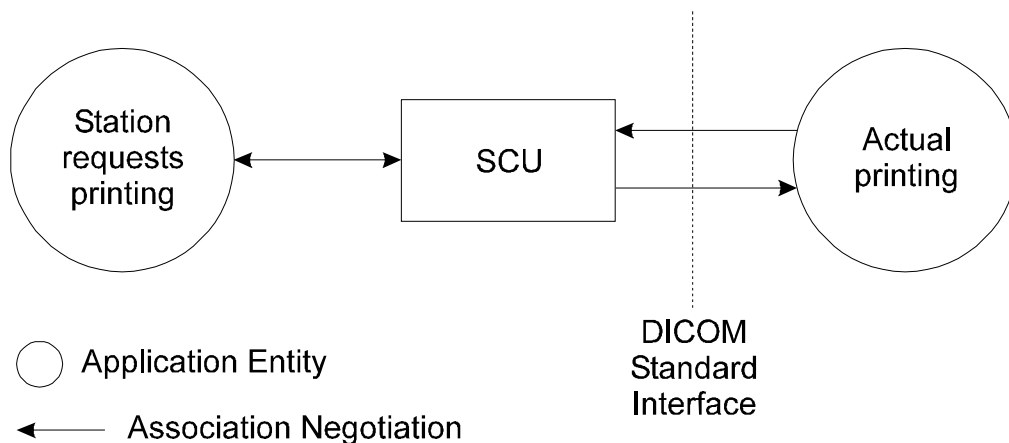
The following symbols and abbreviations are used in this conformance statement:

AE	Application Entity
DICOM	Digital Imaging and Communications in Medicine
DIMSE	DICOM Message Service Element
FLE	Film Layout Editor
PDU	Protocol Data Unit
SCP	Service Class Provider
SCU	Service Class User
SCP	Service Class Provider
SOP	Service-Object Pair
TCP/IP	Transmission Control Protocol/Internet Protocol
UID	Unique Identifier
VR	Value Representation

## 2 NETWORKING

### 2.1 Implementation Model

#### 2.1.1 Application Data Flow Diagram



*Figure 2.1 Implementation model.*

#### 2.1.2 Functional Definitions of AEs

The SCU Print Application Entity acts as a Service Class User (SCU) for the Basic Grayscale Print Management Meta SOP Class. The SCU Print Application Entity will initiate an association and will make use of the SOP classes defined for Print Management that allow for the definition of a Film Session with one or more subordinate Film Boxes, which in turn contain one or more subordinate Image Boxes.

SCU network components are limited and device-dependent. The configuration of the MG 3000, Drystar 2000 or Drystar 3000 must be examined in order to determine the availability of network components. In general, one SCU network component is required for each input and destination DICOM printer combination. Additional SCU network components are required whenever inputs cannot share parameters.

#### 2.1.3 Sequencing of Real World Activities

Not applicable for Real World Activities.

However, a Film Session must be created before one or more subordinate Film Boxes can be created. In turn, the Film Box must be created before one or more subordinate Image Boxes can be created.

## 2.2 AE Specifications

### 2.2.1 SCU - Specifications

From MeGa Release 3.32 onward, the SCU provides standard conformance to the following DICOM 3.0 Meta SOP Classes and DICOM 3.0 SOP Classes as SCP.

SOP Class Name	SOP Class UID
Basic Grayscale Print Management Meta SOP class	1.2.840.10008.5.1.1.9
Verification	1.2.840.10008.1.1

**Table 2.1 Meta SOP classes & SOP classes.**

Support for Basic Grayscale Print Management as SCU also implies support for the following SOP Classes as SCU (refer to Table 2.2). However, the SCU shall not accept individual Presentation Contexts for these SOP Classes.

SOP Class Name	SOP Class UID
Basic Film Session SOP Class	1.2.840.10008.5.1.1.1
Basic Film Box SOP Class	1.2.840.10008.5.1.1.2
Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4
Printer SOP Class	1.2.840.10008.5.1.1.16

**Table 2.2 Grayscale Print Management SOP classes.**

#### 2.2.1.1 Association Establishment Policies

##### 2.2.1.1.1 General

Before any SOP Classes can be exchanged between the SCU Application Entity and the DICOM Print Provider (SCP), an association stage takes place to negotiate and exchange the capabilities of the SCU and SCP. The Print Management SCU and SCP establish an association by using the Association Services of the DICOM Upper Layer. During association establishment, the SCU DICOM Print Management Application Entity negotiates the supported SOP classes. An association needs at least 150 KB of disk quota.

Only the SCU Application Entity shall release an association. The SCU or the SCP may abort the association.

The SCU Application Entity attempts to initiate a new association for each print session. The SCU Application Entity allows the SCP to set attributes of instances and send DIMSE messages to instances that are created on the same association.

The Maximum PDU length for the PDUs offered by the PMS (SCP) is 65542 bytes. This means that the maximum value for a PDU length field is 65542 bytes.

##### 2.2.1.1.2 Number of Associations

The number of supported associations depends on the configuration of the printing device (MG 3000, Drystar 2000 or Drystar 3000), with a maximum of six associations.

### 2.2.1.1.3 Asynchronous Nature

Asynchronous Operations Window Negotiation is not supported.

### 2.2.1.1.4 Implementation Identifying Information

From MeGa Release 3.32 onward, the Implementation Version Name provided by the SCU component is 'MG3000\_VERSION\_3'. All Associations will use a single Implementation Class UID, which is:

> 1.3.51.0.1.3

The Application Context UID is:

> 1.2.840.10008.3.1.1.1

### 2.2.1.2 Association Initiation Policy

The SCU Print Application Entity attempts to initiate a new association for each print requested.

### 2.2.1.3 Association Acceptance Policy

Not applicable for the SCU Print Application Entity.

### 2.2.1.3.1 Printing Encoded with Implicit or Explicit VR

#### 2.2.1.3.1.1 Associated Real World Activity

The associated Real World Activity is the printing of a set of images that is encoded with any VR and requested over the network.

#### 2.2.1.3.1.2 Proposed Presentation Contexts

Any of the Presentation Contexts shown in the following tables is acceptable for SCU.

Transfer Syntax	UID
DICOM Implicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2
DICOM Explicit VR Little Endian Transfer Syntax	1.2.840.10008.1.2.1
DICOM Explicit VR Big Endian Transfer Syntax	1.2.840.10008.1.2.2

**Table 2.3 Transfer syntaxes.**

The following Presentation Contexts are acceptable for SCU for MeGa Releases 3.32 onward:

Abstract Syntax		Transfer Syntax	Role	Extended Negotiation
Name	UID			
Verification	1.2.840.10008.1.1	All from Table 2.3	SCU	None
Basic Grayscale Print Management (see Note)	1.2.840.10008.1.1.9	All from Table 2.3	SCU	None

**Table 2.4 Presentation contexts.**

**Notes:**

Presentation Context shall use Abstract Syntax IDs that correspond to the SOP Classes UID of the Meta SOP Class specified in the first column of the Presentation Context Table or included SOP Classes. None of the included SOP Classes supports extended negotiation.

The Presentation contexts for the various "Image SOP Classes" can be found in the Conformance Statement of the Storage Service Class.

### 2.2.1.3.2 SOP Specific Conformance to Basic Greyscale Print Management Meta SOP Class

Standard conformance is also provided to the DICOM Basic Grayscale Print Management Class (1.2.840.10008.1.1.9) as SCU.

#### 2.2.1.3.2.1.1 Basic Film Session SOP Class (1.2.840.10008.5.1.1.1)

The following DIMSE services are supported:

- > N-CREATE
- > N-DELETE
- > N-ACTION

⇒ **N-CREATE:** is sent by the SCU Application Entity to create a Basic Film Session SOP instance, when an Association has been established. If N-CREATE fails, the SCP Application Entity should convey an error message. The N-CREATE causes the Basic Film Session to be created and its attributes initialized. The Basic Film session is created before the Basic Film Boxes are created.

At any time, the SCU/SCP shall only support one Basic Film Session instance on an association. No other concurrent Film Session shall be created on one association. However, a sequential Film Session on the same Association is allowed after deleting the previous Film Session.

Tag	Name	Supported	Default
(2000,0010)	Number of Copies	1-99	1
(2000,0020)	Print Priority	HIGH, LOW, (MED=LOW)	LOW
(2000,0030)	Medium Type	CLEAR FILM, BLUE FILM, PAPER	Configurable
(2000,0040)	Film Destination	PROCESSOR, MAGAZINE	PROCESSOR
(2000,0050)	Film Session Label	Configurable	Empty string

**Table 2.5 Supported attributes.**

⇒ **N-DELETE:** is used to delete all info describing a Basic Film Session when the SCP returns a status code of "success" for N-DELETE.

⇒ **N-ACTION:** is used to print a Film Session. A Print Job SOP Instance is also created by the N-ACTION operation of the Film Session SOP Class, if the Print Job SOP Class was accepted in the association set-up.

**Note:**

N-ACTION for multiple copies print in the order 12341234, according to the DICOM 3.0 standard. However, in exception to the DICOM standard, the N-ACTION for multiple copies prints as 11223344.

**2.2.1.3.2.2 Basic Film Box SOP Class (1.2.840.10008.5.1.1.2)**

The maximum number of simultaneous Film Box SOP instances is 32. If this maximum number of layouts is exceeded, the following error status is returned: "0110H" (Processing Failure).

The following DIMSE services are supported:

- > N-CREATE
- > N-DELETE
- > N-ACTION

⇒ **N-CREATE** is sent by the SCU Application Entity to create a Basic Film Box, once a Film Session has been successfully created. The creation of a Basic Film Box also causes the subordinate Basic Image Boxes to be created for each location in the film format. The Basic Film Box contains the presentation parameters common for all images on a given sheet of film.

	Name	Supported	Default
(2010,0010)	Image Display Format	STANDARD, ROW, COL, SLIDE, SUPERSLIDE, CUSTOM provided that these values are used in the AGFA mapping table (See below)	
(2010,0030)	Annotation Display Format ID	ANNOTATION supported when the Annotation SOP Class is accepted during Association set-up (See SOP specific Conformance to Basic Annotation Box SOP Class)	
(2010,0040)	Film Orientation	PORTRAIT, LANDSCAPE	PORTRAIT
(2010,0050)	Film Size ID	8INX10IN, 11INX14IN, 14INX14IN, 14INX17IN	Configurable
(2010,0060)	Magnification Type	REPLICATE, BILINEAR, CUBIC	CUBIC
(2010,0080)	Smoothing Type	See below	
(2010,0100)	Border Density	BLACK, WHITE, i (where i represents the desired density in hundredths of OD)	BLACK
(2010,0110)	Empty Image Density	BLACK, WHITE, i (where i represents the desired density in hundredths of OD)	BLACK
(2010,0120)	Minimum Density	See below	depending on printer type and chosen film type
(2010,0130)	Maximum Density	See below	depending on printer type and chosen film type
(2010,0140)	Trim	YES, NO	YES
(2010,0150)	Configuration Information	Configurable	PERCEPTION_LUT = KANAMORI
(2010,0500)	Ref. Film Session Seq.		

	Name	Supported	Default
(0008,1150)	>Ref. SOP Class UID		
(0008,1155)	>Ref. SOP Instance UID		
(2010,0510)	Ref. Image Box Seq.		
(0008,1150)	>Ref. SOP Class UID		
(0008,1155)	>Ref. SOP Instance UID		
(2010,0520)	Ref. Basic Annotation Box Seq.		
(0008,1150)	>Ref. SOP Class UID		
(0008,1155)	>Ref. SOP Instance UID		

**Table 2.6 Supported attributes.**

- > Magnification Type: the value "NONE" is not supported.
  - Annotation Box
    - + Supported values:

ANNOTATION1	FILE1
ANNOTATION2	FILE2
ANNOTATION3	FILE3
ANNOTATION4	FILE4
ANNOTATION5	FILE5
ANNOTATION6	FILE6

This is used to print e.g. a logo on a film. Maximum 6 files (in TIFF format) can be defined depending on the layout chosen (refer to MG 3000 documentation). An extension '.TIF' is added to each annotation file name. A file name is maximum 8 characters long. Selecting an annotation requires the annotation file to be present on the MG 3000.

ANNOTATION1	PATID
ANNOTATION2	PATID
ANNOTATION3	PATID
ANNOTATION4	PATID
ANNOTATION5	PATID
ANNOTATION6	PATID

⇒ **N-ACTION:** is issued by the SCU print Application Entity (SCU) to print one or more copies of a single film of the Film Session, when all desired Image Boxes in the Basic Film Box have been set (see below).

A Print Job SOP Instance is also created by the N-ACTION operation of the Film Box SOP Class, when the Print Job SOP Class is accepted during association set-up.

⇒ **N-DELETE:** is issued by the SCU Application Entity to delete the Basic Film Box.

### 2.2.1.3.2.3 Basic Grayscale Image Box SOP Class (1.2.840.10008.5.1.1.4)

The Basic Grayscale Image Box SOP instance is created by the SCP at the time the Basic Film Box SOP instance is created (N-CREATE). The Basic Grayscale Image Box contains the presentation parameters and image pixel data that applies to a single image of a sheet of film.

The following DIMSE services are supported:

> N-SET

⇒ **N-SET**: For each image in the Basic Film Box the desired attributes of the Basic Image Box are set. The print application SCU Application Entity (SCU) issues an N-SET for the Image Box. The SCP returns a status code. When all needed Basic Image Boxes have been set, the application issues a print command. There can be empty image positions. By using N-SET, the SCU Application Entity instructs the SCP to erase the image in the image position by setting a zero length and no value in the attribute Preformatted Grayscale Image Sequence.

Tag	Name	Supported	Default
(0008,1130)	Ref. Overlay Seq.	not supported	
(0008,1150)	>Sop Class UID	not supported	
(0008,1155)	>Sop Instance UID	not supported	
(2010,0060)	Magnification Type	REPLICATE,BILINEAR, CUBIC	
(2010,0080)	Smoothing Type	See Basic Film Box SOP Class	
(2020,0010)	Image Position	1 – x (depending layout)	
(2020,0020)	Polarity	NORMAL	NORMAL
(2020,0030)	Requested Image Size		
(2020,0110)	Basic Grayscale Image Seq.		
(0028,0002)	>Samples Per Pixel	1	
(0028,0004)	>Photometric Interpretation	MONOCHROME1, MONOCHROME2	Configurable
(0028,0010)	>Rows	> 0	
(0028,0011)	>Columns	> 0	
(0028,0034)	>Pixel Aspect Ratio		
(0028,0100)	>Bits Allocated	8	
(0028,0101)	>Bits Stored	8	
(0028,0102)	>High Bit	7	
(0028,0103)	>Pixel Representation	0	0
(7FE0,0010)	>Pixel Data	OW	

**Table 2.7 Supported attributes.**

Besides the above-specified standard attributes, the 'Preformatted Grayscale Image Sequence' can also be extended with the following DICOM attributes:

Tag	Name	Supported	Default
(0010,0020)	>Patient ID		
(0028,1050)	>Window Center		
(0028,1051)	>Window Width		
(0028,1052)	>Rescale intercept		
(0028,1053)	>Rescale Slope		

Tag	Name	Supported	Default
(0028,1054)	>Rescale Type		

**Table 2.8 Supported attributes.**

From MG3000\_VERSION\_3 onward, the above-specified standard attributes for the 'Basic Image Box' can also be extended with the following private attributes:

Tag	Name	Supported	Default
(1301,0010)	Identification Code	"AGFA"	
(1301,1010)	Agfa Imagebox Orientation	R0, R90, R180, R270, M0, M90, M180, M270	R0

**Table 2.9 Private attributes.**

The 'Agfa Imagebox Orientation' attribute has a CS value representation and supports the following values:

R0	No rotation, no mirroring
R90	Clockwise rotation of 90 degrees, no mirroring
R180	Clockwise rotation of 180 degrees, no mirroring
R270	Clockwise rotation of 270 degrees, no mirroring
M0	No rotation, mirror about vertical axis
M90	Clockwise rotation of 90 degrees, then mirror about vertical axis
M180	Clockwise rotation of 180 degrees, then mirror about vertical axis
M270	Clockwise rotation of 270 degrees, then mirror about vertical axis

#### 2.2.1.3.2.4 Printer SOP Class (1.2.840.10008.5.1.1.16)

The Printer SOP Class is used to monitor the status of the printer. The Printer SOP instance is created by the SCP during the start-up of the hard copy printer and has a well-known SOP instance UID:

- > 1.2.840.10008.5.1.1.17

The following DIMSE services are supported:

- > N-EVENT-REPORT
- > N-GET

⇒ **N-EVENT-REPORT**: at any time during the Association, the application may receive N-EVENT-REPORT from the PMS (SCP). In this case, the message must be decoded and displayed to the user in a readable format. Events are normally disabled (see Configuration of the MG 3000 – Section 5).

Tag	Name	Supported	Default
(2110,0010)	Printer Status	NORMAL, WARNING, FAILURE	
(2110,0020)	Printer Status Info	See below	

**Table 2.10 Supported attributes.**

⇒ **N-GET**: retrieves an instance of the Printer SOP class.

Tag	Name	Supported	Default
(0008,0070)	Manufacturer		
(0008,1090)	Manufacturer Model Name		
(0018,1000)	Device Serial Number		
(0018,1020)	Software Versions		
(0018,1200)	Date Last Calibration		start-up date
(0018,1201)	Time Last Calibration		start-up time
(2110,0010)	Printer Status	NORMAL, WARNING, FAILURE	
(2110,0020)	Printer Status Info	See above	
(2110,0030)	Printer Name		Called AE Title

**Table 2.11 Supported attributes.**

### 2.2.1.3.3 SOP Specific Conformance to Verification SOP Class

SCU provides standard conformance to the DICOM Verification Service Class (1.2.840.10008.1.1).

⇒ **C-ECHO**: The Verification Service Class defines a service that verifies the application level communication between DICOM Application Entities. The verification is accomplished on an established association using C-ECHO.

## 3 COMMUNICATION PROFILES

### 3.1 Supported Communications Stacks

SCU uses TCP/IP for the protocol stacks.

## 4 EXTENSIONS / SPECIALIZATIONS / PRIVATIZATIONS

Refer to Sections 2.2.1.3.2.3 and 2.2.1.3.2.3 for an overview of the private attributes supported for the Basic Image Box SOP Class.

## 5 CONFIGURATION

### 5.1 General

This document describes the Print Management Service conformance to DICOM 3.0. Features are valid for MeGa Releases 3.30 up to 3.32, except where otherwise specified.

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**Note:**

No guarantee can be given as to the quality of the output, as this depends on the imaging and printing equipment attached.

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### 5.2 SCU Configuration Per SCP

Refer to the Guidelines for Generic Installations document (Agfa HealthCare Document No. 000539) for installation and configuration details.



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