



DICOM Conformance Statement

MAMMOMAT Inspiration Annex DicomProxy



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Annex DicomProxy

The Mammomat Inspiration DicomProxy is a converter box designed for Mammomat Inspiration to create Breast Tomosynthesis objects. The Mammomat Inspiration DicomProxy forwards DICOM messages. Therefore the DICOM Conformance Statement of Mammomat Inspiration VB30 or higher (www.siemens.com/dicom) is valid and extended by this document. During the transfer of images utilizing the DICOM CT SOP Class issued by Mammomat Inspiration this data is converted into images utilizing the Breast Tomosynthesis SOP class.

SOP Specific Conformance Breast Tomosynthesis

During storage negotiation only uncompressed transfer syntaxes are used for the storage of Breast Tomosynthesis objects.

The Overlay plane module (groups 60xx) is not transferred to the Breast Tomosynthesis object.

DICOM Conformance Statement

Breast Tomosynthesis IOD Content

Please see the following tables for a complete overview of supplied type 1/2/3 standard and additional extended attributes:

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

VNAP Value Not Always Present (attribute sent zero length if no value is present)

ANAP Attribute Not Always Present

ALWAYS Always Present

EMPTY Attribute is sent without a value

The abbreviations used in the "SOURCE" column:

MWL the attribute value source Modality Worklist USER the attribute value source is from User input the attribute value is generated automatically MPPS the attribute value is the same as that used

for Modality Performed Procedure Step

CONFIG the attribute value source is a configurable parameter

For some values only a dummy can be provided, since the information is not available in the CT images provided by Mammomat Inspiration.

Breast Tomosynthesis Extended SOP Class

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
Specific Character Set	(0008,0005)	cs	ALWAYS	MWL / CON- FIG	From Configuration / RIS
Image Type	(0008,0008)	cs	ALWAYS	AUTO	ORIGNAL\PRIMARY\ TOMOSYNTHESIS\NONE
SOP Class UID	(0008,0016)	UI	ALWAYS	AUTO	1.2.840.10008.5.1.4.1.1.13.1.3
SOP Instance UID	(0008,0018)	UI	ALWAYS	AUTO	Created
Study Date	(0008,0020)	DA	ALWAYS	AUTO	<yyyymmdd></yyyymmdd>
Series Date	(0008,0021)	DA	ALWAYS	AUTO	<yyyymmdd></yyyymmdd>
Acquisition Date	(0008,0022)	DA	ALWAYS	AUTO	Date of Original Acquisition (X-Ray event)
Content Date	(0008,0023)	DA	ALWAYS	AUTO	Date of Creation
Study Time	(0008,0030)	TM	ALWAYS	AUTO	<hhmmss></hhmmss>
Series Time	(0008,0031)	TM	ALWAYS	AUTO	<hhmmss></hhmmss>
Acquisition Time	(0008,0032)	TM	ALWAYS	AUTO	Time of Original Acquisition (X-Ray event)
Content Time	(0008,0033)	TM	ALWAYS	AUTO	Time of Creation
Accession Number	(0008,0050)	SH	VNAP	MWL/USER	RIS or "Accession No." input
Modality	(0008,0060)	CS	ALWAYS	AUTO / MPPS	MG

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
Manufacturer	(0008,0070)	LO	ALWAYS	AUTO	SIEMENS
Institution Name	(0008,0080)	LO	ALWAYS	MWL / USER / CONFIG	RIS or "Institution Name" input
Institution address	(0008,0081)	ST	ALWAYS	CONGIG	From configuration
Referring Physi- cian's Name	(0008,0090)	PN	VNAP	MWL / USER	RIS or input
Station Name	(0008,1010)	SH	ALWAYS	CONFIG	from Configuration hostname
Study Description	(0008,1030)	LO	ALWAYS	MWL / AUTO	RIS Requested Procedure Description or mapped procedure
Procedure Code Sequence	(0008,1032)	SQ	ANAP MWL/AUTO / MPPS		Requested Procedure Code Sequence (0032,1062) from Modality Worklist or configured Code
Series Description	(0008,103E)	LO	ALWAYS USER / AU- TO		вто_томо
Institutional De- partment Name	(0008,1040)	LO	ALWAYS	AUTO	From configuration
Physician's of Record	(0008,1048)	PN	ANAP	AUTO	From RIS
Performing Physician's Name	(0008,1050)	PN	ANAP	MWL/ USER	Performing Physician
Operator's Name	(0008,1070)	PN	ANAP	USER	"Operator 1"\"Operator 2" input
Admitting Diag- nosis Description	(0008,1080)	LO	ANAP	MWL	"Admitting Diagnosis"
Manufacturer's Model Name	(0008,1090)	LO	ALWAYS	AUTO	Inspiration
Referenced Study Sequence	(0008,1110)	SQ	ANAP	MWL	From RIS
Referenced Performed Procedure Step Sequence	(0008,1111)	SQ	ALWAYS	MPPS	Set even if MPPS is not configured
Referenced Patient Sequence	(0008,1120)	SQ	ANAP	MWL/MPPS	From RIS
Derivation Description	(0008,2111)	ST	ALWAYS	AUTO	Image Processing Parameters + BTO DicomProxy <version></version>
Source Image Sequence	(0008,2112)	SQ	ANAP	AUTO	Reference to FOR PROCESSING image projection images
Pixel Presentation	(0008,9205)	cs	ALWAYS	AUTO	MONOCHROME
Volumetric Properties	(0008,9206)	cs	ALWAYS	AUTO	VOLUME
Volumetric Based Calculation	(0008,9207)	CS	ALWAYS	AUTO	TOMOSYNTHESIS

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
Technique					
Patient's Name	(0010,0010)	PN	ALWAYS	MWL/USER /MPPS	RIS or "Patient Name" input
Patient ID	(0010,0020)	LO	ALWAYS	MWL/USER /MPPS	RIS or "Patient ID" input
Patient's Birth Date	(0010,0030)	DA	ALWAYS	MWL/USER/ MPPS	RIS or checked "Date of Birth" input
Patient's Birth Time	(0010,0032)	TM	ANAP	MWL / USER/ MPPS	RIS or checked "Date of Birth" input
Patient's Sex	(0010,0040)	CS	ALWAYS	MWL / USER/ MPPS	RIS or input (M or F or O/unknown)
Other Patient IDs	(0010,1000)	LO	ANAP	MWL/USER	From RIS / Social Security Number
Other Patient Names	(0010,1001)	PN	ANAP	MWL	From RIS
Other Patient Ids Sequence	(0010,1002)	SQ	ANAP	MWL / USER	RIS or Input
Patient ID	(0010,0020)	LO	ANAP	MWL / USER	RIS or Input
Issuer of Patient ID	(0010,0021)	LO	ANAP	MWL / USER	RIS or Input
Patient's Age	(0010,1010)	AS	ALWAYS	AUTO	Calculated from "Date of Birth" input
Patient's Size	(0010,1020)	DS	ANAP	MWL/USER	Patient's height in meters
Patient's Weight	(0010,1030)	DS	ANAP	MWL/USER	(in kilograms)
Military Rank	(0010,1080)	LO	ANAP	MWL	From RIS
Ethnic Group	(0010,2160)	SH	ANAP	MWL	From RIS
Additional Patient History	(0010,21B0)	LT	ANAP	MWL	From RIS
Pregnancy Status	(0010,21C0)	US	ANAP	MWL	From RIS
Patient Comments	(0010,4000)	LT	ANAP	MWL/USER	"Additional Info"
Body Part examined	(0018,0015)	IS	ALWAYS	AUTO	BREAST
Device Serial Number	(0018,1000)	LO	ALWAYS	AUTO	<modality number="" serial=""></modality>
Software Versions	(0018,1020)	LO	ALWAYS	AUTO	<version></version>
Protocol Name	(0018,1030)	LO	ALWAYS	AUTO	ТОМО
Content Qualification	(0018,9004)	cs	ALWAYS	AUTO	PRODUCT
Contributing Sources Sequence	(0018,9506)	SQ	ALWAYS	AUTO	See X-Ray 3D Acquisition SequenceContributing Sources Sequence
X-Ray 3D Acquisition Sequence	(0018,9507)	SQ	ALWAYS	AUTO	See X-Ray 3D Acquisition Sequence
Study Instance	(0020,000D)	UI	ALWAYS	MWL / AUTO	From RIS or system generated

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
UID			OI VALUE		
Series Instance UID	(0020,000E)	UI	ALWAYS	AUTO	generated
Study ID	(0020,0010)	SH	ALWAYS	MWL / USER / AUTO / MPPS	From RIS Requested Procedure ID or system created
Series Number	(0020,0011)	IS	ALWAYS	AUTO	generated
Instance Number	(0020,0013)	IS	ALWAYS	AUTO	generated
Frame of Reference UID	(0020,0052)		ALWAYS	AUTO	generated
Position Refer- ence Indicator	(0020,1040)	LO	ALWAYS	AUTO	Empty
Image Comments	(0020,4000)	LT	VNAP	USER/AUTO	If entered in UI
Samples per Pixel	(0028,0002)	US	ALWAYS	AUTO	1
Photometric Interpretation	(0028,0004)	cs	ALWAYS	AUTO	MONOCHROME2
Number of Frames	(0028,0008)	IS	ALWAYS	AUTO	Number of frames
Rows	(0028,0010)	US	ALWAYS	AUTO	rows
Columns	(0028,0011)	US	ALWAYS	AUTO	columns
Bits Allocated	(0028,0100)	US	ALWAYS	AUTO	16
Bits Stored	(0028,0101)	US	ALWAYS	AUTO	12
High Bit	(0028,0102)	US	ALWAYS	AUTO	11
Pixel Representation	(0028,0103)	US	ALWAYS	AUTO	0
Pixel Padding Value	(0028,0120)	US	ALWAYS	AUTO	0
Quality Control Image	(0028,0300)	cs	ALWAYS	USER / AU- TO	YES or NO
Burned In Annotation	(0028,0301)	cs	ALWAYS	AUTO	"NO"
Breast Implant Present	(0028,1300)	cs	ALWAYS	AUTO	YES or NO
Partial View	(0028,1350)	CS	ALWAYS	AUTO	NO
Spatial Locations Preserved	(0028,135A)	CS	ALWAYS	AUTO	YES or NO
Lossy Image Compression	(0028,2110)	cs	ALWAYS	AUTO	"00", "01" if image was sent lossy compressed by the USER
Requesting Physician	(0032,1032)	PN	ANAP	MWL	From RIS
Requesting Service	(0032,1033)	LO	ANAP	MWL	From RIS
Requested Procedure	(0032,1060)	LO	ANAP	MWL	From RIS

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
Description					
Requested Procedure Code Sequence	(0032,1064)	SQ	ANAP	MWL	From RIS
>Code Value	(0008,0100)	SH	ANAP	MWL	From RIS
>Coding Scheme Designator	(0008,0102)	SH	ANAP	MWL	From RIS
>Coding Scheme Version	(0008,0103)	SH	ANAP	MWL	From RIS
>Code Meaning	(0008,0104)	LO	ANAP	MWL	From RIS
Study Comments	(0032,4000)	LT	ANAP	USER	Patient Registration input
Special Needs	(0038,0050)		ANAP	MWL	From RIS
Patient State	(0038,0500)		ANAP	MWL	From RIS
Performed Procedure Step Start Date	(0040,0244)	DA	ALWAYS	AUTO/ MPPS	supplied, even if MPPS SOP Class is not supported
Performed Procedure Step Start Time	(0040,0245)	ТМ	ALWAYS	AUTO/ MPPS	supplied, even if MPPS SOP Class is not supported
Performed Procedure Step ID	(0040,0253)	SH	ALWAYS	AUTO/ MPPS	supplied, even if MPPS SOP Class is not supported, "MGyyyymmddhhmmss" is set with 1st Image acquired
Performed Procedure Step Description	(0040,0254)	LO	ALWAYS	AUTO/ MPPS	Value of Study Description
Performed Protocol Code Sequence	(0040,0260)	SQ	ANAP	MWL/ MPPS	Same as 0040,0275>0040,0008
Request Attrib- utes Sequence	(0040,0275)	SQ	ANAP	MWL	From RIS
>Scheduled Procedure Step Description	(0040,0007)	LO	ANAP	MWL	From RIS
>Scheduled Protocol Code Sequence	(0040,0008)	SQ	ANAP	MWL	From RIS
>Scheduled Pro- cedure Step ID	(0040,0009)	SH	ANAP	MWL	From RIS
>Requested Procedure ID	(0040,1001)	SH	ANAP	MWL / USER	From RIS or "Request ID" input
Acquisition Con- text Sequence	(0040,0555)	SQ	ALWAYS	AUTO	<null></null>
Reason For Performed Procedure Step Sequence	(0040,1012)	SQ	ALWAYS	MWL / USER	RIS or Input
Confidentiality	(0040,3001)	LO	ANAP	MWL	From RIS

NAME	TAG	VR	PRESENCE OF VALUE	SOURCE	VALUE
Constraint on Patient Data Description					
View Code Se- quence	(0054,0220)	SQ	ALWAYS	AUTO / US- ER	CID 4014
Presentation LUT Shape	(2050,0020)	cs	ALWAYS	AUTO	IDENTITY
Shared Functional Groups Sqeuence	(5200,9229)	SQ	ALWAYS	AUTO	Shared attributes see Shared Func- tional Groups Sequence
Per Frame Func- tional Groups Sqeuence	(5200,9230)	SQ	ALWAYS	AUTO	Per Frame attributes see Per Frame Functional Groups Sequence
Pixel Data	(7FE0,0010)	OB- OW	ALWAYS	AUTO	Pixel frames

Shared Functional Groups Sequence

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
Frame Anato- my Sequence	(0020,9071)	SQ	ALWAYS	-
>Anatomic Region Sequence	(0008,2218)	SQ	ALWAYS	-
>> Code Value	(0008,9205)	SH	ALWAYS	T-0400
>> Coding Scheme Designator	(0008,9206)	SH	ALWAYS	SRT
>> Code Meaning	(0008,9207)	LO	ALWAYS	Breast
Frame Laterality	(0020,9072)	CS	ALWAYS	<laterality></laterality>
Plane Orienta- tion Sequence	(0020,9116)	SQ	ALWAYS	-
>Image Orien- tation (Patient)	(0020,0037)	DS	ALWAYS	Calculated
Pixel Measures Sequence	(0028,9110)	SQ	ALWAYS	-
>Slice Thickness	(0018,0050)	DS	ALWAYS	calculated
>Pixel Spacing	(0028,0030)	DS	ALWAYS	calculated
Frame VOI LUT sequence	(0028,9132)	SQ	ALWAYS	-

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
>Window Center	(0028,1050)	DS	ALWAYS	calculated
>Window Width	(0028,1051)	DS	ALWAYS	calculated
>Window Center and Width Expla- nation	(0028,1055)	LO	ALWAYS	linear LUT
Pixel Value Transformation Sequence	(0028,9145)	SQ	ALWAYS	-
>Rescale Intercept	(0028,1052)	DS	ALWAYS	0
>Rescale Slope	(0028,1053)	DS	ALWAYS	1
>Rescale Type	(0028,1054)	LO	ALWAYS	US

Per Frame Functional Groups Sequence

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
X-Ray 3D Frame Type Sequence	(0018,9504)	SQ	ALWAYS	-
> Frame Type	(0008,9007)	CS	ALWAYS	DERIVED\PRIMARY\TOMOSYNTHESIS\NONE
> Pixel Presentation	(0008,9205)	CS	ALWAYS	MONOCHROME
>Volumetric Properties	(0008,9206)	CS	ALWAYS	VOLUME
>Volumetric Based Calcu- lation Tech- nique	(0008,9207)	CS	ALWAYS	TOMOSYNTHESIS
Frame Con- tent Sequence Sequence	(0020,9111)	SQ	ALWAYS	-
>Frame Acquisition Date and Time	(0018,9074)	DT	ALWAYS	Date and Time
>Frame Acquisition Number	(0020,9156)	UL	ALWAYS	Acquisition Number
Plane Position Sequence	(0020,9113)	SQ	ALWAYS	-

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
> Image Posi- tion (Patient)	(0020,0032)	DS	ALWAYS	calculated

X-Ray 3D Acquisition Sequence

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
KVP	(0018,0060)	DS	ALWAYS	value
Distance Source to Detector	(0018,1110)	DS	ALWAYS	(mm) SID
Distance Source to Patient	(0018,1111)	DS	ALWAYS	(mm) SOD
Estimated Radiographic Factor	(0018,1114)	DS	ALWAYS	(mm) SID/SOD
Field of View Shape	(0018,1147)	cs	ALWAYS	RECTANGLE
Filter Type	(0018,1160)		ALWAYS	STRIP
Exposure	(0018,1152)	IS	ALWAYS	(mAs)
Grid	(0018,1166)	DS	ALWAYS	NONE
Focal Spot	(0018,1190)	DS	ALWAYS	0.1 0.3
Anode Target Material	(0018,1191)	cs	ALWAYS	TUNGSTEN
Body Part Thickness	(0018,11A0)	DS	ALWAYS	(mm)
Compression Force	(0018,11A2)	DS	ALWAYS	(Newton)
Paddel Description	(0018,11A4)	LO	ALWAYS	ТОМО
Detector Temperature	(0018,7001)	DS	ALWAYS	Dummy

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
Field of View Origin	(0018,7030)	DS	ALWAYS	0/0
Filter Material	(0018,7050)	CS	ALWAYS	RHODIUM
Filter Thickness Minimum	(0018,7052)	DS	ALWAYS	0.05
Filter Thickness Maximum	(0018,7054)	DS	ALWAYS	0.05
Exposure Control Mode	(0018,7060)	CS	ALWAYS	AUTOMATIC
Exposure Control Mode Description	(0018,7062)	LT	ALWAYS	"unkown"
Exposure Time	(0018,9328)	FD	ALWAYS	<duration exposure="" of="" x-ray="">(msec)</duration>
X-Ray Tube Current	(0018,9330)	FD	ALWAYS	(mA)
Exposure in mAs	(0018,9332)	FD	ALWAYS	(mAs)
Source Isocenter Distance	(0018,9402)	FL	ALWAYS	value
X-Ray Receptor Type	(0018,9420)	cs	ALWAYS	DIGITAL_DETECTOR
Primary Position- er Scan Arc	(0018,9508)	FL	ALWAYS	Sign of value: from vertical to patient's right is positive
Primary Position- er Scan Start Arc	(0018,9510)	FL	ALWAYS	Current value
Primary Position- er Increment	(0018,9514)	FL	ALWAYS	Current value
Start Acquisition Date Time	(0018,9516)	DT	ALWAYS	Current value
Per Projection Acquisiion Sequence	(0018,9538)	SQ	ALWAYS	one representative item containing accumulated values
Half Value Layer	(0040,0314)	DS	ALWAYS	0.533 Comment:The thickness of Aluminum in mm required to reduce the X-RayOutput

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
Organ dose	(0040,0316)	DS	ALWAYS	For all projections
Entrance Dose in mGy	(0040,8302)	DS	ALWAYS	Current value

Contributing Sources Sequence

ATTRIBUTE NAME	TAG	VR	PRESENCE OF VALUE	VALUE
Acquisition Date Time	(0008,002A)	DT	ALWAYS	value
Manufacturer	(0008,0070)	LO	ALWAYS	SIEMENS
Manufacturer's Model Name	(0008,1090)	LO	ALWAYS	Mammomat Inspiration
Detector Type	(0018,7004)	CS	ALWAYS	DIRECT
Detector ID	(0018,700A)	SH	ALWAYS	Serial number
Date of Last Detector Cali- bration	(0018,700C)	DA	ALWAYS	Dummy
Time of Last Detector Cali- bration	(0018,700E)	TM	ALWAYS	Dummy
Detector Ele- ment Spacing	(0018,7022)	DS	ALWAYS	Current values
Contributing SOP Instances Reference Sequence	(0020,9529)	SQ	ALWAYS	References to projection images
Manufacturer	(0008,0070)	LO	ALWAYS	SIEMENS
Manufacturer's Model Name	(0008,1090)	LO	ALWAYS	Mammomat Inspiration
Rows	(0028,0010)	US	ALWAYS	rows
Columns	(0028,0011)	US	ALWAYS	columns
Bits Stored	(0028,0101)	US	ALWAYS	16
Lossy Image Compression	(0028,2110)	cs	ALWAYS	00

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Order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens Healthcare GmbH order No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | HC DI XP MK 0416pdf | \odot 04.2016 Siemens No. A91XP-30011-56T1-7600 | Printed in Germany | Printed in Germany No. A91XP-30011-56T1-7600 | Printed in Germany No. A91XP-3001-56T1-7600 | Printed in Germany No. A91XP-3001-56T1-7600 | Printed in Germ