BS 8441-2:2006

BRITISH STANDARD

Health informatics – Medical digital imaging profiles –

Part 2: "M-IHE6-4.8MIS-CT" CT images stored

ICS 35.240.80

Publishing and copyright information

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Contents

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover.

Foreword

Publishing information

This British Standard was published by BSI and came into effect on 4 September 2006. It was prepared by Technical Committee IST/35, *Health informatics*, in accordance with the provisions of BS 8440. A list of organizations represented on this committee can be obtained on request to its secretary.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Introduction

The Integrating the Healthcare Enterprise (IHE) Technical Framework document provides a scenario, as required by BS 8440-2, and a set of profiles expressed as tables and text to enable the smooth implementation of information technology in support of a set of carefully defined basic clinical tasks associated with diagnostic imaging. This medical digital imaging (MDI) profile specifies the content of the IHE Technical Framework document regarding metadata contained in the IHE Patient Registration Transaction in a concise form that can be expressed as printed tables or in electronic form. The electronic form enables electronic comparison with product profiles available in electronic form.

1 Scope

This British Standard specifies the metadata to be included in the Modality Images Stored transaction as specified in the IHE Technical Framework Volume II, Revision 6.0, section 4.8 and Appendix A, when applied to a computed tomography (CT) image data set.

It falls within the taxonomy class of Management (see BS 8440-1).

The relevant scenario included in IHE Technical Framework Volume II, Revision 6.0, section 4.8, concerns the transmission of any image from an image acquisition system to an information system, while Appendix A specifies the appropriate use of required data elements.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ANSI/HL7 Version 2.3.1 1998 (HL7 v2.3.1), *ANSI Application Protocol of Electronic Data Exchange in Healthcare Environments*

IHE Technical Framework Volume II, Revision 6.0 (IHE6-0) ACC/HIMSS/RSNA, May 18, 2005

ISO 12052, *Digital imaging – DICOM – Communication, workflow and data management*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in BS 8440-1 and BS 8440-2 apply. (See also Annex A.)

4 Abbreviations

A/C	Additional requirement/Clarification
Card	Cardinality
CT	Computed tomography
DICOM	ISO 12052, *Digital imaging — DICOM — Communication, workflow and data management*
HL7 2.3.1	Health Level 7 Version 2.3.1
ID	Identifier
IHE6	IHE Technical Framework Revision 6.0
MDI	Medical digital imaging
OID	Object identifier

5 Conformance

Conformance of a product with the MDI metadata profile specified in this British Standard shall be tested by determining that the patient registration communication metadata within a relevant message type (see **6.3**) includes all the MDI profile data elements specified in the profile tables (Table 1, Table 2 and Table 3).

NOTE 1 Conformance of a product with the scenario is beyond the scope of this British Standard.

Applications shall make available all the content items included in the profile table with optionality R (required), optionality C (conditional), if the appropriate condition is met, and optionality RE if a value for the data item is known.

NOTE 2 Applications are expected to conform to the requirements of IHE6.

6 MDI profile

6.1 Identification

6.1.1 Name: IHE Technical Framework 6.0-II-4 4.8 Modality Images Stored - CT

6.1.2 ID: M-IHE6.0-II-4-4.8MIS-CT

6.1.3 OID: 1.2.826.0.1002.102.8441.2

6.2 Base scenario document

IHE Technical Framework Volume II Revision 6.0.

NOTE IHE6 specifies a set of profiles of DICOM provisions.

6.3 Message type

Store CT Image.

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT**

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.1	DICOM	Patient	Patient's Name	(0010,0010)	64	PN	[1..1]	RE	Johnson^Edna			1.2.826.0.1002.102.8441.2.1
M-IHE6.0-II-4-4.8MIS-CT.2	DICOM	Patient	Patient ID	(0010,0020)	64	LO	[1..1]	RE	H01564095			1.2.826.0.1002.102.8441.2.2
M-IHE6.0-II-4-4.8MIS-CT.3	DICOM	Patient	Patient's Birth Date	(0010,0030)	8	DA	[1..1]	RE	19171023			1.2.826.0.1002.102.8441.2.3
M-IHE6.0-II-4-4.8MIS-CT.4	DICOM	Patient	Patient's Sex	(0010,0040)	16	CS	[1..1]	RE	F			1.2.826.0.1002.102.8441.2.4
M-IHE6.0-II-4-4.8MIS-CT.5	DICOM	General Study	Study Instance UID	(0020,000D)	64	UI	[1..1]	R	1.2.826.0.1.3680043.2.587.667897			1.2.826.0.1002.102.8441.2.5
M-IHE6.0-II-4-4.8MIS-CT.6	DICOM	General Study	Study Date	(0008,0020)	8	DA	[1..1]	RE	20030115			1.2.826.0.1002.102.8441.2.6
M-IHE6.0-II-4-4.8MIS-CT.7	DICOM	General Study	Study Time	(0008,0030)	16	TM	[1..1]	RE	120514			1.2.826.0.1002.102.8441.2.7
M-IHE6.0-II-4-4.8MIS-CT.8	DICOM	General Study	Referring Physician's Name	(0008,0090)	64	PN	[1..1]	RE	Brown^Frederick			1.2.826.0.1002.102.8441.2.8
M-IHE6.0-II-4-4.8MIS-CT.9	DICOM	General Study	Person Identification Code Sequence	(0040,1101)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.9
M-IHE6.0-II-4-4.8MIS-CT.10	DICOM	Person ID Code Sequence	Code Value	(0008,0100)	16	SH	[1..1]	R	XY12345			1.2.826.0.1002.102.8441.2.10

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.11	DICOM	Person ID Code Sequence	Coding Scheme Designator	(0008,0102)	16	SH	[1..1]	R	UKNHS17			1.2.826.0.1002.102.8441.2.11
M-IHE6.0-II-4-4.8MIS-CT.12	DICOM	Person ID Code Sequence	Coding Scheme Version	(0008,0103)	16	SH		R	1.5			1.2.826.0.1002.102.8441.2.12
M-IHE6.0-II-4-4.8MIS-CT.13	DICOM	Person ID Code Sequence	Code Meaning	(0008,0104)	64	LO	[1..1]	R	Brown ^ Frederick			1.2.826.0.1002.102.8441.2.13
M-IHE6.0-II-4-4.8MIS-CT.14	DICOM	General Study	Study ID	(0020,0010)	16	SH	[1..1]	RE	M030067			1.2.826.0.1002.102.8441.2.14
M-IHE6.0-II-4-4.8MIS-CT.15	DICOM	General Study	Accession Number	(0008,0050)	16	SH	[1..1]	RE	M030067-1243			1.2.826.0.1002.102.8441.2.15
M-IHE6.0-II-4-4.8MIS-CT.16	DICOM	General Study	Referenced Study Sequence	(0008,1110)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.16
M-IHE6.0-II-4-4.8MIS-CT.17	DICOM	Referenced Study Sequence	Referenced SOP Class UID	(0008,1150)	64	UI	[1..1]	R	1.2.840.10008.5.1.4.1.1.2			1.2.826.0.1002.102.8441.2.17
M-IHE6.0-II-4-4.8MIS-CT.18	DICOM	Referenced Study Sequence	Referenced SOP Instance UID	(0008,1155)	64	UI	[1..1]	R	1.2.826.0.1.3680043.2.587.99340			1.2.826.0.1002.102.8441.2.18
M-IHE6.0-II-4-4.8MIS-CT.19	DICOM	General Study	Procedure Code Sequence	(0032,1064)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.19
M-IHE6.0-II-4-4.8MIS-CT.20	DICOM	Procedure Code Sequence	Code Value	(0008,0100)	16	SH	[1..1]	R	CT1234			1.2.826.0.1002.102.8441.2.20

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.21	DICOM	Procedure Code Sequence	Coding Scheme Designator	(0008,0102)	16	SH	[1..1]	R	OPCS-4			1.2.826.0.1002.102.8441.2.21
M-IHE6.0-II-4-4.8MIS-CT.22	DICOM	Procedure Code Sequence	Coding Scheme Version	(0008,0103)	16	SH	[1..1]	R	4.4			1.2.826.0.1002.102.8441.2.22
M-IHE6.0-II-4-4.8MIS-CT.23	DICOM	Procedure Code Sequence	Code Meaning	(0008,0104)	64	LO	[1..1]	R	CT Chest with Contrast			1.2.826.0.1002.102.8441.2.23
M-IHE6.0-II-4-4.8MIS-CT.24	DICOM	General Series	Modality	(0008,0060)	16	CS	[1..1]	R	CT			1.2.826.0.1002.102.8441.2.24
M-IHE6.0-II-4-4.8MIS-CT.25	DICOM	General Series	Series Instance UID	(0020,000E)	64	UI	[1..1]	R	1.2.826.0.1.3680043.2.587.6678			1.2.826.0.1002.102.8441.2.25
M-IHE6.0-II-4-4.8MIS-CT.26	DICOM	General Series	Series Number	(0020,0011)	12	IS	[1..1]	RE	1			1.2.826.0.1002.102.8441.2.26
M-IHE6.0-II-4-4.8MIS-CT.27	DICOM	General Series	Protocol Name	(0018,1030)	64	LO	[1..1]	R	Thorax			1.2.826.0.1002.102.8441.2.27
M-IHE6.0-II-4-4.8MIS-CT.28	DICOM	General Series	Patient Position	(0018,5100)	16	CS	[1..1]	RE	HFS	PS3 C.7.3.1.1.2		1.2.826.0.1002.102.8441.2.28
M-IHE6.0-II-4-4.8MIS-CT.29	DICOM	General Series	Request Attributes Sequence	(0040,0275)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.29
M-IHE6.0-II-4-4.8MIS-CT.30	DICOM	Request Attributes Sequence	Requested Procedure ID	(0040,1001)	16	SH	[1..1]	R	R123456			1.2.826.0.1002.102.8441.2.30

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.31	DICOM	Request Attributes Sequence	Requested Procedure Description	(0032,1060)	64	LO	[1..1]	R	CT chest with contrast			1.2.826.0.1002.102.8441.2.31
M-IHE6.0-II-4-4.8MIS-CT.32	DICOM	Request Attributes Sequence	Reason for Requested Procedure Code Sequence	(0040,100A)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.32
M-IHE6.0-II-4-4.8MIS-CT.33	DICOM	Reason Code Sequence	Code Value	(0008,0100)	16	SH	[1..1]	R	X123456789			1.2.826.0.1002.102.8441.2.33
M-IHE6.0-II-4-4.8MIS-CT.34	DICOM	Reason Code Sequence	Coding Scheme Designator	(0008,0102)	16	SH	[1..1]	R	SNOMED-CT			1.2.826.0.1002.102.8441.2.34
M-IHE6.0-II-4-4.8MIS-CT.35	DICOM	Reason Code Sequence	Coding Scheme Version	(0008,0103)	16	SH	[1..1]	R	3.5			1.2.826.0.1002.102.8441.2.35
M-IHE6.0-II-4-4.8MIS-CT.36	DICOM	Reason Code Sequence	Code Meaning	(0008,0104)	64	LO	[1..1]	R	Difficulty Breathing			1.2.826.0.1002.102.8441.2.36
M-IHE6.0-II-4-4.8MIS-CT.37	DICOM	Request Attributes Sequence	Scheduled Procedure Step ID	(0040,0009)	16	SH	[1..1]	R	12345678			1.2.826.0.1002.102.8441.2.37
M-IHE6.0-II-4-4.8MIS-CT.38	DICOM	Request Attributes Sequence	Scheduled Procedure Description	(0040,0007)	64	LO	[1..1]	R	CT Chest with Contrast			1.2.826.0.1002.102.8441.2.38
M-IHE6.0-II-4-4.8MIS-CT.39	DICOM	Request Attributes Sequence	Scheduled Protocol Code Sequence	(0040,0008)		SQ	[1..1]	R				1.2.826.0.1002.102.8441.2.39
M-IHE6.0-II-4-4.8MIS-CT.40	DICOM	Sched Protocol Code Sequence	Code Value	(0008,0100)	16	SH	[1..1]	R	CT1234			1.2.826.0.1002.102.8441.2.40

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.41	DICOM	Sched Protocol Code Sequence	Coding Scheme Designator	(0008,0102)	16	SH	[1..1]	R	SNOMED			1.2.826.0.1002.102.8441.2.41
M-IHE6.0-II-4-4.8MIS-CT.42	DICOM	Sched Protocol Code Sequence	Coding Scheme Version	(0008,0103)	16	SH	[1..1]	R	3.5			1.2.826.0.1002.102.8441.2.42
M-IHE6.0-II-4-4.8MIS-CT.43	DICOM	Sched Protocol Code Sequence	Code Meaning	(0008,0104)	64	LO	[1..1]	R	CaLung			1.2.826.0.1002.102.8441.2.43
M-IHE6.0-II-4-4.8MIS-CT.44	DICOM	General Series	Performed Procedure Step ID	(0040,0253)	16	SH	[1..1]	R	123456578			1.2.826.0.1002.102.8441.2.44
M-IHE6.0-II-4-4.8MIS-CT.45	DICOM	General Series	Performed Procedure Step Start Date	(0040,0244)	8	DA	[1..1]	R	20030115			1.2.826.0.1002.102.8441.2.45
M-IHE6.0-II-4-4.8MIS-CT.46	DICOM	General Series	Performed Procedure Step Start Time	(0040,0245)	16	TM	[1..1]	R	120514			1.2.826.0.1002.102.8441.2.46
M-IHE6.0-II-4-4.8MIS-CT.47	DICOM	General Series	Performed Procedure Description	(0040,0254)	64	LO	[1..1]	R	CT Chest with Contrast			1.2.826.0.1002.102.8441.2.47
M-IHE6.0-II-4-4.8MIS-CT.48	DICOM	General Series	Performed Protocol Code Sequence	(0040,0260)		SQ	[1..N]	R				1.2.826.0.1002.102.8441.2.48
M-IHE6.0-II-4-4.8MIS-CT.49	DICOM	Performed Protocol Code Sequence	Code Value	(0008,0100)	16	SH	[1..1]	R	CT1234			1.2.826.0.1002.102.8441.2.49
M-IHE6.0-II-4-4.8MIS-CT.50	DICOM	Performed Protocol Code Sequence	Coding Scheme Designator	(0008,0102)	16	SH	[1..1]	R	SNOMED			1.2.826.0.1002.102.8441.2.50

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.51	DICOM	Performed Protocol Code Sequence	Coding Scheme Version	(0008,0103)	16	SH	[1..1]	R	3.5			1.2.826.0.1002.102.8441.2.51
M-IHE6.0-II-4-4.8MIS-CT.52	DICOM	Performed Protocol Code Sequence	Code Meaning	(0008,0104)	64	LO	[1..1]	R	CaLung			1.2.826.0.1002.102.8441.2.52
M-IHE6.0-II-4-4.8MIS-CT.53	DICOM	Frame of Reference	Frame of Reference UID	(0020,0052)	64	UI	[1..1]	R	1.2.826.0.1.3680043.2.587.9065			1.2.826.0.1002.102.8441.2.53
M-IHE6.0-II-4-4.8MIS-CT.54	DICOM	Frame of Reference	Position Reference Indicator	(0020,1040)	64	LO	[1..1]	RE	SSN	PS3 C.7.4.1.1.2		1.2.826.0.1002.102.8441.2.54
M-IHE6.0-II-4-4.8MIS-CT.55	DICOM	General Equipment	Manufacturer	(0008,0070)	64	LO	[1..1]	RE	GE			1.2.826.0.1002.102.8441.2.55
M-IHE6.0-II-4-4.8MIS-CT.56	DICOM	General Image	Image Number	(0020,0013)	12	IS	[1..1]	RE	1			1.2.826.0.1002.102.8441.2.56
M-IHE6.0-II-4-4.8MIS-CT.57	DICOM	General Image	Patient Orientation	(0020,0020)	16	CS	[1..1]	R	R,A			1.2.826.0.1002.102.8441.2.57
M-IHE6.0-II-4-4.8MIS-CT.58	DICOM	General Image	Image Date	(0008,0023)	8	DA	[1..1]	C	20030115			1.2.826.0.1002.102.8441.2.58
M-IHE6.0-II-4-4.8MIS-CT.59	DICOM	General Image	Image Time	(0008,0033)	16	TM	[1..1]	C	120514			1.2.826.0.1002.102.8441.2.59
M-IHE6.0-II-4-4.8MIS-CT.60	DICOM	Image Plane	Pixel Spacing	(0028,0030)	16	DS	[1..1]	R	0.1\0.1			1.2.826.0.1002.102.8441.2.60

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.61	DICOM	Image Plane	Image Orientation	(0020,0037)	16	DS	[1..1]	R	1\0\0\0\1\0			1.2.826.0.1002.102.8441.2.61
M-IHE6.0-II-4-4.8MIS-CT.62	DICOM	Image Plane	Image Position	(0020,0032)	16	DS	[1..1]	R	27.0\13.0\-45.5			1.2.826.0.1002.102.8441.2.62
M-IHE6.0-II-4-4.8MIS-CT.63	DICOM	Image Plane	Slice Thickness	(0018,0050)	16	DS	[1..1]	RE	4.5			1.2.826.0.1002.102.8441.2.63
M-IHE6.0-II-4-4.8MIS-CT.64	DICOM	Image Pixel	Samples per Pixel	(0028,0002)	2	US	[1..1]	R	1	PS3 C.7.6.3.1.1		1.2.826.0.1002.102.8441.2.64
M-IHE6.0-II-4-4.8MIS-CT.65	DICOM	Image Pixel	Photometric Interpretation	(0028,0004)	16	CS	[1..1]	R	MONOCHROME1	PS3 C.7.6.3.1.2		1.2.826.0.1002.102.8441.2.65
M-IHE6.0-II-4-4.8MIS-CT.66	DICOM	Image Pixel	Rows	(0028,0010)	2	US	[1..1]	R	1024			1.2.826.0.1002.102.8441.2.66
M-IHE6.0-II-4-4.8MIS-CT.67	DICOM	Image Pixel	Columns	(0028,0011)	2	US	[1..1]	R	1024			1.2.826.0.1002.102.8441.2.67
M-IHE6.0-II-4-4.8MIS-CT.68	DICOM	Image Pixel	Bits Allocated	(0028,0100)	2	US	[1..1]	R	12			1.2.826.0.1002.102.8441.2.68
M-IHE6.0-II-4-4.8MIS-CT.69	DICOM	Image Pixel	Bits Stored	(0028,0101)	2	US	[1..1]	R	16			1.2.826.0.1002.102.8441.2.69
M-IHE6.0-II-4-4.8MIS-CT.70	DICOM	Image Pixel	High Bit	(0028,0102)	2	US	[1..1]	R	11			1.2.826.0.1002.102.8441.2.70

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.71	DICOM	Image Pixel	Pixel Representation	(0028,0103)	2	US	[1..1]	R	0			1.2.826.0.1002.102.8441.2.71
M-IHE6.0-II-4-4.8MIS-CT.72	DICOM	Image Pixel	Pixel Data	(7FE0,0010)	2	US	[1..1]	R	[1024×1024 image data array]			1.2.826.0.1002.102.8441.2.72
M-IHE6.0-II-4-4.8MIS-CT.73	DICOM	Image Pixel	Planar Configuration	(0028,0006)	2	US	[1..1]	C	Not used for CT numbers			1.2.826.0.1002.102.8441.2.73
M-IHE6.0-II-4-4.8MIS-CT.74	DICOM	Image Pixel	Pixel Aspect Ratio	(0028,0034)	12	IS	[1..1]	C	Not used if pixels square but could be 001\001			1.2.826.0.1002.102.8441.2.74
M-IHE6.0-II-4-4.8MIS-CT.75	DICOM	Contrast /Bolus	Agent	(0018,0010)	64	LO	[1..1]	C	Omnipaque 300			1.2.826.0.1002.102.8441.2.75
M-IHE6.0-II-4-4.8MIS-CT.76	DICOM	CT Image	Image Type	(0008,0008)	16	CS	[1..n]	R	AXIAL			1.2.826.0.1002.102.8441.2.76
M-IHE6.0-II-4-4.8MIS-CT.77	DICOM	CT Image	Rescale intercept	(0028,1052)	16	DS	[1..1]	R	-1024			1.2.826.0.1002.102.8441.2.77
M-IHE6.0-II-4-4.8MIS-CT.78	DICOM	CT Image	Rescale Slope	(0028,1053)	16	DS	[1..1]	R	1			1.2.826.0.1002.102.8441.2.78
M-IHE6.0-II-4-4.8MIS-CT.79	DICOM	CT Image	KVP	(0018,0060)	16	DS	[1..1]	RE	120			1.2.826.0.1002.102.8441.2.79
M-IHE6.0-II-4-4.8MIS-CT.80	DICOM	CT Image	Acquisition Number	(0020,0012)	12	IS	[1..1]	RE	1			1.2.826.0.1002.102.8441.2.80

Table 1 **Profile table M-IHE6.0-II-4-4.8MIS-CT** *(continued)*

Profile item ID	Std./ Ver.	Container name	Content item name	Content item ID	LEN	DT	Card	Opt	Example value	Doc. clause	A/C	OID
M-IHE6.0-II-4-4.8MIS-CT.81	DICOM	SOP Common	SOP Class UID	(0008,0016)	64	UI	[1..1]	R	1.2.840.10008.5.1.4.1.1.2			1.2.826.0.1002.102.8441.2.81
M-IHE6.0-II-4-4.8MIS-CT.82	DICOM	SOP Common	SOP Instance UID	(0008,0018)	64	UI	[1..1]	R	1.2.826.0.1.3680043.2.587.99450			1.2.826.0.1002.102.8441.2.82
M-IHE6.0-II-4-4.8MIS-CT.83	DICOM	SOP Common	Specific Character Set	(0008,0005)	16	CS	[1..1]	R	ISO-IR 100			1.2.826.0.1002.102.8441.2.83

NOTE The data content of a message as specified by DICOM is made up of a number of component parts. The highest level components are called modules. A module contains one or more items. A module content item might be an atomic data item or a compound data item. A compound content item is called a "sequence" in DICOM terminology. A DICOM sequence might itself be contained within a (higher) sequence.

Table 2 **Additional requirements table**

Profile item ID	Content item name	Description of additional requirement

Table 3 **Clarification table**

Profile item ID	Content item name	Clarification text

Annex A (informative) Column headers for the profile definition table

Column 1: Profile item ID. The metadata MDI profile reference, formed from the first part of the reference given in the title of the metadata profile, followed by '.', followed by the item (row) number, i.e. M-IHE6.0-II-4-4.8MIS-CT.1 in the first row of the table specifies the content of the profile with reference M-IHE6.0-II-4-4.8MIS-CT.

Column 2: Std./ Ver. (Standard/ Version). The standard and, where applicable, the version of the standard (e.g. a revision) within which the content item is defined.

Column 3: Container name. The name of the section of the standard within which the content item resides.

Column 4: Content item name. Name of the content item.

Column 5: Content item ID. An identifier for the content item.

Column 6: LEN (Length). The length of the content item in octets.

Column 7: DT (Data type). The data type of the content item, expressed as specified in the standard (sub-)clause referenced in Columns 2 and 11.

Column 8: Card (Cardinality). Expressed as [a..b] where:

a: minimum number of instances allowed.

b: maximum number of instances.

Column 9: Opt (Optionality). Expressed as:

R: Specified as required in the referenced standard

RA: Additional requirement that was optional or whose optionality is not specified in the referenced standard, but which is specified as mandatory by the profile

RE: required but might be empty (DICOM)

C: Conditional requirement. Condition based on value(s) of one or more required fields.

Column 10: Example value. For test purposes and illustration (written in American English).

Column 11: Doc. clause (Document clause). The relevant clause number in either the revision of the referenced standard (e.g. HL7 2.3.1, as in BS 8441-1) or the scenario (e.g. IHE6.0, as in BS 8441-2).

Column 12: A/C (Additional requirement/Clarification). An entry of A or C or both A and C in this column indicates that details of any additional constraint beyond that specified by the referenced document or clarification are given in the Additional requirement or Clarification table.

Column 13: OID (Object identifier). Globally unique identifier for this profile row entry item, as defined in ISO 8824.

Bibliography

Standards publications

BS 8440-1:2005, *Healthcare informatics – Medical digital imaging – Profiles format – Part 1: General principles*

BS 8440-2:2005, *Healthcare informatics – Medical digital imaging – Profiles format – Part 2: Particular requirements for metadata profiles*

ISO 8824 (all parts), *Information technology – Abstract Syntax Notation One (ASN.1)*

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