

### DICOM Correction Proposal Form

Tracking Information - Administration Use Only	
Correction Proposal Number	CP-195
STATUS	Proposed
Date of Last Update	March 9, 2000
Person Assigned	Cor Loef
Submitter Name	Cor Loef
Submission date	January 16, 2000

Correction Number	CP-195
Log Summary: Addition of 4.1 GB MOD, and use inCT/MR application profile	
Type of Modification	Name of Standard
Addition	PS 3.11-1999, PS 3.12-1999
Rationale for Correction	
Emergence of 4.1 GB MOD for MR applications	
Sections of documents affected	
PS 3.11-1999 PS 3.12-1999 new annex X	
Correction Wording:	

*Item1: Add to following entry to Table E.1-1 -STD-CTMR Profiles in PS 3.11*

**Table E.1-1 - STD-CTMR Profiles**

Application Profile	Identifier	Description
CT/MR Studies on 650MB MOD	STD-CTMR-MOD650	Handles single frame 8, 12 or 16 bit grayscale and 8 bit palette color, uncompressed and lossless compressed images.
CT/MR Studies on 1.2GB MOD	STD-CTMR-MOD12	Handles single frame 8, 12 or 16 bit grayscale and 8 bit palette color, uncompressed and lossless compressed images.
CT/MR Studies on 2.3GB MOD	STD-CTMR-MOD23	Handles single frame 8, 12 or 16 bit grayscale and 8 bit palette color, uncompressed and lossless

		compressed images.
<b>CT/MR Studies on 4.1GB MOD</b>	<b>STD-CTMR-MOD41</b>	<b>Handles single frame 8, 12 or 16 bit grayscale and 8 bit palette color, uncompressed and lossless compressed images.</b>
CT/MR Studies on CD-R	STD-CTMR-CD	Handles single frame 8, 12 or 16 bit grayscale and 8 bit palette color, uncompressed and lossless compressed images.

*Item 2: Add the following definition to section E.3.2 in PS3.11*

**E.3.2 Physical Medium And Medium Format**

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**The STD-CTMR-MOD41 application profile requires the 130 mm 4.1GB R/W MOD physical medium with the PCDOS Media Format, as defined in PS 3.12.**

*Item 3: Add a new annex X to PS3.12*

**Annex X (Normative) 130 mm 4.1GB Magneto-Optical Disk**

**I.1 DICOM MAPPING TO MEDIA FORMATS**

Only one DICOM File-set shall be stored onto each side of a single 130 mm disk.

**I.2 MEDIA FORMATS**

The media format comprises two distinct components:

- a. The Recording format, which addresses magnetic recording, track definition, sector headers, etc.
- b. The Logical format, which addresses the organization of the data portion of sectors to support semantics of the file system.

**I.2.1 Recording Format**

The low level formatting shall be done using the ISO/IEC DIS 14517 standard. The Secondary Defect List shall be used.

**I.2.2 Logical Format**

The Logical Format for the 130 mm 4.1GB disk shall be the PC File System (see Annex A).

The boot sector defined in Annex A shall have the following values.

**Table I.2-1  
 Boot Parameter Values for 130mm 4.1GB Magneto-Optical Disk**

Byte(s)	Value	Description
13	40H or 80H	Sectors / cluster, either 64 or 128. See Note 1.
21	F8H	Flag for disk type F8H = Hard Disk.

24 - 25	003EH (Nominal)	Nominally 62 sectors/track, but may vary, and any value should not affect interoperability. See Note 3.
26 - 27	0001H (Nominal)	Nominally 1 head, but may vary, and any value should not affect interoperability.

- Notes:
1. Lower values would not utilize all the disk sectors on a side.
  2. When formatted the total formatted capacity of one side of the disk is approximately 1.07GB.
  3. Though ISO/IEC DIS 14517 specifies 31 sectors/ logical track, the number of cylinders for a DOS file system must fit within a 16 bit unsigned word, and hence 62 are nominally specified.

### I.3 PHYSICAL MEDIA

The physical media shall be the 130 mm Magneto-Optical Rewritable disk with 512 bytes per sector. It shall be compatible with the standard defined in the ISO/IEC DIS 14517?? Data Interchange on 130mm Optical Disk Cartridges - Capacity 4.1GB Per Cartridge standard.

Note: The 4.1GB nomenclature refers to the capacity when formatted with 512 bytes per sector compared to the 4.5 (5.2??)GB nomenclature when formatted with 1024 bytes per sector (which is not supported by DICOM).