

## DICOM Correction Item

Correction Number CP- 547	
Log Summary: Clarify use of large CDROM media	
Type of Modification Addition	Name of Standard PS 3.12 2004
Rationale for Correction:  The base encodings permitted for DICOM CD-R media do not support the newer very large media. They were specified for the 74 minute and below media. Lack of encoding controls on common Windows software for creating CD-Rs has led to compatability problems when non-DICOM encodings were automatically selected. The vendor of that software has stated that they will not provide either configuration or programmatic controls to implement a recording format restriction because (in their opinion) virtually all CD-R devices can read both formats.	
Sections of documents affected  PS 3.12	
Correction Wording:  <i>Add to the end of section F.2.1.1</i>	

### F.2.1.1 SECTOR FORMAT

All DICOM files and all data that comprise the ISO 9660 file system of the DICOM CD-R disc shall be stored either:

- within Mode 1 sectors, or
- within Mode 2, Form 1 **or 2** sectors with CD-ROM-XA File Number = 0, Channel Number = 0 and Coding Information Byte = 0.

**Note:** Earlier versions of the DICOM standard prohibited the use of Mode 2 Form 2 sectors. These sectors are used to record CD-Rs that exceed 74 minute capacity (approximately 630MB) and can also be used for smaller capacity CD-Rs. Some very old equipment may be unable to read CD-Rs recorded with Mode 2, Form 2 sectors. The ability to read this format is determined by both the hardware in the CDROM reader itself and the operating system device drivers. CD-ROM-XA Mode 2 Form 2 sectors do not have sector level error correction. This significantly decreases the reliability of the media.