

DICOM Correction Item

Correction Number		CP-866
Log Summary: Force all directory records to be in use and in a consistent state		
Type of Modification	Name of Standard	
Correction	PS 3.3 2008	
Rationale for Correction		
It is not practical to update a DICOMDIR as opposed to rebuilding it, hence the concept of inactive directory records and inconsistent states are not appropriate.		
Effectively retire these "features" by enumerating value to always be in use and consistent.		
Sections of documents affected		
PS 3.3 F3.2.2		
Correction Wording:		

F.3.2.2 Directory Information Module

...

**Table F.3-3
 DIRECTORY INFORMATION MODULE**

Attribute Name	Tag	Type	Attribute Description
...
File-set Consistency Flag	(0004,1212)	1	<p>When set, this Flag indicates that an inconsistency within the Directory or between the Directory and the Files of the File-set may exist. Potential recovery actions are implementation specific and are beyond the scope of this Standard.</p> <p>Enumerated Values: 0000H: no known inconsistencies FFFFH: the FSR or FSU shall assume that inconsistencies are present.</p> <p><u>The value FFFFH shall never be sent.</u></p> <p>This flag shall be set by implementations before a File-set update which, if interrupted, may result in an inconsistent File-set.</p> <p>Note: There may be error conditions where an inconsistency is present but this flag is not set. There may also be conditions where no inconsistencies are present but the flag is set.</p> <p><u>Formerly, this Attribute was intended to signal that the directory was in an inconsistent state with a value of FFFFH. This usage has been retired. See PS 3.3 2008.</u></p>
Directory Record Sequence	(0004,1220)	2	Sequence of zero or more Items where each Item contains a Directory Record by including the Directory Elements from (0004,1400) to (0004,1511) and Record selection Keys as defined below (marked with a >).

			A zero length Value indicates that no Directory Records are contained in the Root Directory Entity.
...
>Record In-use Flag	(0004,1410)	1	<p>This flag facilitates the deletion of referenced files.</p> <p>Enumerated Values: FFFFH = record is in use. 0000H = record is inactive. All attributes of an inactive Directory Record except (0004,1400) and (0004,1410) shall be ignored.</p> <p>The value 0000H shall never be sent.</p> <p><u>Note: Formerly, this Attribute was intended to facilitate the deletion of files, with a value 0000H signally an inactive record. This usage has been retired. See PS 3.3 2008.</u></p> <p>Other Values are reserved and shall not be set by File-set Creators, but if present shall be interpreted as FFFFH by File-set Readers or Updaters.</p> <p>If a Directory Record is changed from in use to inactive, the FSU shall ensure that all Directory Records of referenced lower-level Directory Entities are changed to inactive.</p>
...