

DICOM Correction Proposal Form

Correction Number		CP-131
Log Summary: Timezone specification in SOP Common		
Type of Modification	Name of Standard	
Addition of feature	PS 3.3,3.6-1999	
Rationale for Correction		
<p>The DT Value Representation is defined in Local Time, and may contain an offset from Coordinated Universal Time.</p> <p>This offset is very important for applications for which timing relationship between SOP Instances is critical (e.g. to avoid daylight saving dependency).</p> <p>Currently, only DA and TM Value Representations are used by the Standard. Therefore, no mechanism to get from Coordinated Universal Time is available.</p> <p>It is not realistic to change the VR encoding rules of DA and TM to add a timezone. Though it would be possible to specify a mechanism to specify a timezone for individual attributes, this would be unwieldy. Accordingly the proposal here specifies timezone information that applies to all DA and TM (and DT without an explicit timezone) Attributes.</p>		
Sections of documents affected		
PS 3.3, section C.12.1		
PS 3.6, section 6		
Correction Wording:		

PS 3.3 Change :

C.12.1 SOP Common Module

in the table C.12.1, add the following :

Attribute Name	Tag	Type	Attribute Description
Timezone Offset From UTC	(0008,0201)	3	<p>Contains the offset from UTC to the timezone for all DA and TM Attributes present in this SOP Instance.</p> <p>Encoded as an ASCII string in the format "&ZZZZ". The components of this string, from left to right, are & = "+" or "-", and ZZZZ = Hours and Minutes of offset.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. This encoding is the same as described in PS 3.5 for the DT Value Representation. 2. This Attribute does not apply to values with a DT Value Representation, which may contain an explicitly encoded timezone. 3. The corrected time may cross a 24 hour boundary. For example, if Local Time = 1.00 a.m. and Offset = +0200, then UTC = 11.00 p.m. (23.00) the day before. 4. The "+" sign may not be omitted. <p>Time earlier than UTC is expressed as a negative offset.</p> <p>Note: For example: UTC = 5.00 a.m. Local Time = 3.00 a.m. Offset = -0200</p> <p>The local timezone offset is undefined if this Attribute is absent.</p>

Change in PS 3.6

6 Registry of DICOM Data Elements

Add the following Data Elements :

Tag	Name	VR	VM
(0008,0201)	Timezone Offset From UTC	SH	1