

DICOM Correction Item

Correction Number	CP-620
Log Summary: DateTime Range Boundaries	
Type of Modification	Name of Standard
Clarification	PS 3.4 - 2006
Rationale for Correction Range matching allows the query SCP to specify the range of dates, times or date-times, such as <date1>-<date2>. However, standard does not specify whether or not the <date1> has to be BEFORE or EQUAL <date2>. Implicitly, one would conclude so by looking at the pattern used for definition of open ranges "<date1>-" and "-<date1>", however, explicit clarification would be helpful to avoid problems where SCU would send the "reverse" range considering it valid, and SCP would ignore it as mis-formed.	
Sections of documents affected PS 3.4 Section C.2.2.2.5	
Correction Wording:	
<i>Add clarifications in Section C.2.2.2.5</i>	

C.2.2.2.5 Range Matching

If the Attribute is a date, then:

- A string of the form "<date1> - <date2>", **where <date1> is less or equal to <date2>**, shall match all occurrences of dates which fall between <date1> and <date2> inclusive
- A string of the form "- <date1>" shall match all occurrences of dates prior to and including <date1>
- A string of the form "<date1> -" shall match all occurrences of <date1> and subsequent dates

If the Attribute is a time, then:

- A string of the form "<time1> - <time2>", **where <time1> is less or equal to <time2>**, shall match all occurrences of times which fall between <time1> and <time2> inclusive
- A string of the form "- <time1>" shall match all occurrences of times prior to and including <time1>
- A string of the form "<time1> -" shall match all occurrences of <time1> and subsequent times

If the Attribute is a datetime, then:

- A string of the form "<datetime1> - <datetime2>", **where <datetime1> is less or equal to <datetime2>**, shall match all moments in time which fall between <datetime1> and <datetime2> inclusive
- A string of the form "- <datetime1>" shall match all moments in time prior to and including <datetime1>

- c) A string of the form “<datetime1> -“ shall match all moments in time subsequent to and including <datetime1>
 - 1. The offset from Universal Coordinated Time, if present in the Value of the Attribute, shall be taken into account for the purposes of the match.

Range matching is not defined for types of Attributes other than dates and times.