Archived:TimeZone.getTimeZone() returns invalid value for GMT when using daylight saving time (summer time) (Known Issue)

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The article is believed to be still valid for the original topic scope.

Overview

Reading time zone with TimeZone.getTimeZone()function may return invalid value for GMT when using daylight saving time.

Description

Daylight saving time (aka summer time) adds one hour to the standard time and it is used, for example, in most European countries. MIDP implementation in S60 2nd Edition FP2 and FP3 devices does not seem to take the daylight saving time into consideration: when the daylight saving time is used, reading the current GMT-time with TimeZone.getTimeZone() method or using GMT as a reference while setting timeZone offset returns incorrect value for the GMT time.

For example if it is 10:00 am on your time zone where the offset is GMT+3 (with daylight saving), the function would incorrectly return value 8:00 am for GMT instead of the actual 7:00 am.

In tested S60 3rd Edition devices (Nokia N91, Nokia E70) the problem doesn't occur.

How to reproduce

Read the GMT value with the TimeZone.getTimeZone() function and compare to current phone time and the actual GMT time.

Solution

Adjust the offset correspondingly by adding/subtracting an additional hour, depending on the current time zone if daylight saving time is currently in use.

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