AddIntervalLocal

%AddIntervalLocal function

Function

The function adds relative time **TimeR** to absolute time **TimeA**. The result is a value of the *Absolute time* type.

Declaration

```
TIME %AddIntervalLocal(
   TIME in TimeA,
   REAL in TimeR,
   TEXT in timeZone := %GetCurrentTimeZone()
 )
```

Parameters

TimeA	Absolute time.
TimeR	Relative time.
timeZone	Name of the time zone used for conversion to local time (e.g. "Europe/London") or definition of fixed offset from UTC using format "*(+|-)hh[:mi[:ss]]*", where *hh* defines a number of hours, *mi* defines a number of minutes, and *ss* defines a number of seconds. Sign as well as a number of hours are mandatory parts of offset definition, number of minutes and seconds are optional and default to 0 (e.g. "+02:30" defines offset of 2 hours and 30 minutes from UTC). The empty text has the same meaning as function %GetCurrentTimeZone. Note: For historical reasons, an integer parameter is also accepted. Its interpretation is as follows: 0 - zone "Europe/London", 3600 - zone "Europe/Bratislava", 7200 - zone "Europe/Kiev", 21600 - zone "Asia/Almaty". Usage of integer parameter is deprecated and generates warning into log file!

Description

The function **%AddIntervalLocal** adds relative time to the absolute one. The result **will not be** influenced by the fact that the time jump (between summer and winter time) was or was not performed in this interval. E.g., if 3 hours are added to 1:00 a.m., the result is always 4:00 a.m.

Example

```
; ================================================================
;  Using time zone "Europe/Bratislava"
;  Daylight saving time was observed in the year 2009, therefore time
shifts occurred.
;  Winter [B] time was 1 hour ahead of UTC, summer [A] time was 2 hours
ahead of UTC.
;  Summer time was from 29th March 2009 to 24th October 2009.
;  A3:00:00 is changed to B2:00:00 on Sunday (25th October 2009).
; ================================================================

BEGIN
  TIME _baseTime
  TIME _addLocal1
  TIME _addLocal2

  ; 2009-10-24 23:30:00 UTC / 2009-10-25 01:30:00 UTC+02
  _baseTime := %StrToTimeEx("2009-10-25 01:30:00", "yyyy-mm-dd hh:mi:ss",
"Europe/Bratislava")

  ; add 1 hour - result time 2009-10-25 A2:30:00.000 UTC+02
  _addLocal1 := %AddIntervalLocal(_baseTime, 3600, "Europe/Bratislava")
  ; add 2 hour - result time 2009-10-25 03:30:00.000 UTC+01
  _addLocal2 := %AddIntervalLocal(_baseTime, 7200, "Europe/Bratislava")
END
```

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