The LibrarySysLibRtc.lib

This Library contains functions for accessing the realtime clock of the target system. If the target system is supporting the functionality, the realtime clock can get read and set; additionally the current hour display mode as well as the battery can be retrieved. The execution is synchronous.

The functions:

- SysRtcCheckBattery
- SysRtcGetHourMode
- SysRtcGetTime
- SysRtcSetTime

Hint:	In this context regard the **RTC** function block, which is part of the CoDeSys standard library and which returns the running date and time referring to a given start time. RTC is not a real realtime clock function block because the start time must be set explicitly. But using RTC will save system operating time. Think about setting the start time for RTC with the aid of the SysRtcGetTime function which is available in the SysLibRtc.lib described here.

SysRtcCheckBattery

This function of type BOOL checks the status of the battery of the local system RTC, which is important for the exactness of the shown clock time.

The function will return FALSE, if the battery is not ok, otherwise TRUE.

Input Variable	Data type	Description
bDummy	BOOL	TRUE starts the function

SysRtcGetHourMode

This function of type BOOL can be used to read the display mode of the local system RTC.

The function returns FALSE in case of 12-hour mode, it returns TRUE in case of 24-hour mode.

Input Variable	Data type	Description
bDummy	BOOL	TRUE starts the function

SysRtcGetTime

This function of type DATE_AND_TIME returns the current time which is read from the local system RTC.

Input Variable	Data type	Description
bDummy	BOOL	TRUE starts the function

SysRtcSetTime

This function of Type DATE_AND_TIME can be used to set the local system RTC. It returns TRUE, if the operation has been terminated successfully, otherwise FALSE.

Variable	Data type	Description
ActDateAndTime	DATE_AND_TIME	Time to which the real time clock of the computer should be set