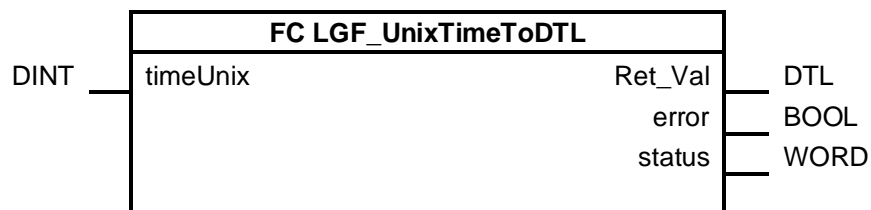# LGF_UnixTimeToDTL

Short description

This block converts a Unix time of data type DInt to a date and time of data type DTL. The timestamp is calculated in UTC. This means that the time zone is not taken into account.

Only times after 01/01/1990 are permitted.

Block

```
                  ┌──────────────────────────────────┐
                  │       FC LGF_UnixTimeToDTL        │
                  ├──────────────────────────────────┤
    DINT ─────────┤ timeUnix              Ret_Val     ├───── DTL
                  │                         error     ├───── BOOL
                  │                        status     ├───── WORD
                  │                                   │
                  └──────────────────────────────────┘
```

Input parameters

Parameters	Data type	Description
timeUnix	DINT	Unix time

Output parameters

Parameters	Data type	Description
Ret_Val	DTL	Converted time (date and time) If error = TRUE, Ret_Val = 0
error	BOOL	FALSE: No error TRUE: An error occurred during the execution of the FB.
status	WORD	16#0000-16#7FFF: Status of the FB, 16#8000-16#FFFF: Error identification (see following Table).

Status and error displays

Status	Meaning	Remedy
16#0000	No error.	-
16#8000	Unix time (timeUnix) is before 01/01/1990	-
16#6001	Unix time (timeUnix) is exactly at the lower limit of 01.01.1990.	-

Further information on libraries in TIA Portal:

- Topic page libraries
  https://support.industry.siemens.com/cs/ww/en/view/109738702
- Guideline on Library Handling
  https://support.industry.siemens.com/cs/ww/en/view/109747503
- Programming Guideline for S7-1200/1500 in chapter "Libraries"
  https://support.industry.siemens.com/cs/ww/en/view/81318674
- Programming Styleguide
  https://support.industry.siemens.com/cs/ww/en/view/81318674