

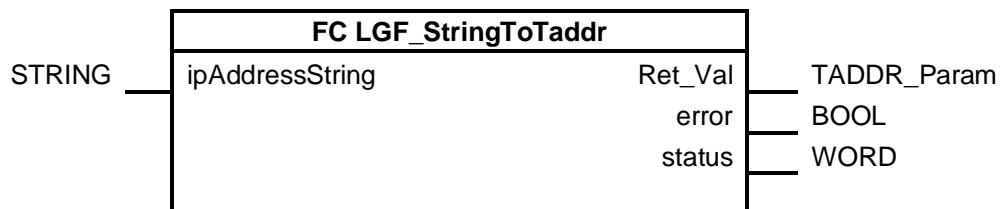
LGF_StringToTaddr

Short description

The system data type "TADDR_Param" contains address information consisting of an IPV4 address and the port number.

The LGF_StringToTaddr function converts a String data type variable to a TADDR_Param system data type variable.

Block



Input parameters

Parameters	Data type	Description
ipAddressString	STRING	IPV4 address

Output parameters

Parameters	Data type	Description
Ret_Val	TADDR_param	IPV4 address
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 / notes
16#0000	No error	-
16#8110	Too many characters in the xth octet of the IP address	
16#8120	No number/character in the xth octet of the IP address	
16#8130	Number in octet exceeds the maximum possible range of 255.	
16#8150	Too many characters when converting the port string.	
16#8151	No characters in the port string. Port string is empty.	
16#8151	Port number exceeds the maximum possible range of 65535.	

Principle of operation

The function converts the IPV4 address with or without port number from data type "STRING" to "TADDR_param". The string must be in the following form:

[0..255].[0..255].[0..255].[0..255] without port number

or

[0..255].[0..255].[0..255].[0..255]:[0..65535] with port number

Example

- The standard string format for an IPV4 address without port number:
'192.168.11.11'
- The standard string format for an IPV4 address with port number:
'192.168.11.11:3294'

Note

If you do not specify a port number in the ipAddressString parameter, the Ret_Val.REM_PORT_NR parameter returns 0.

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>