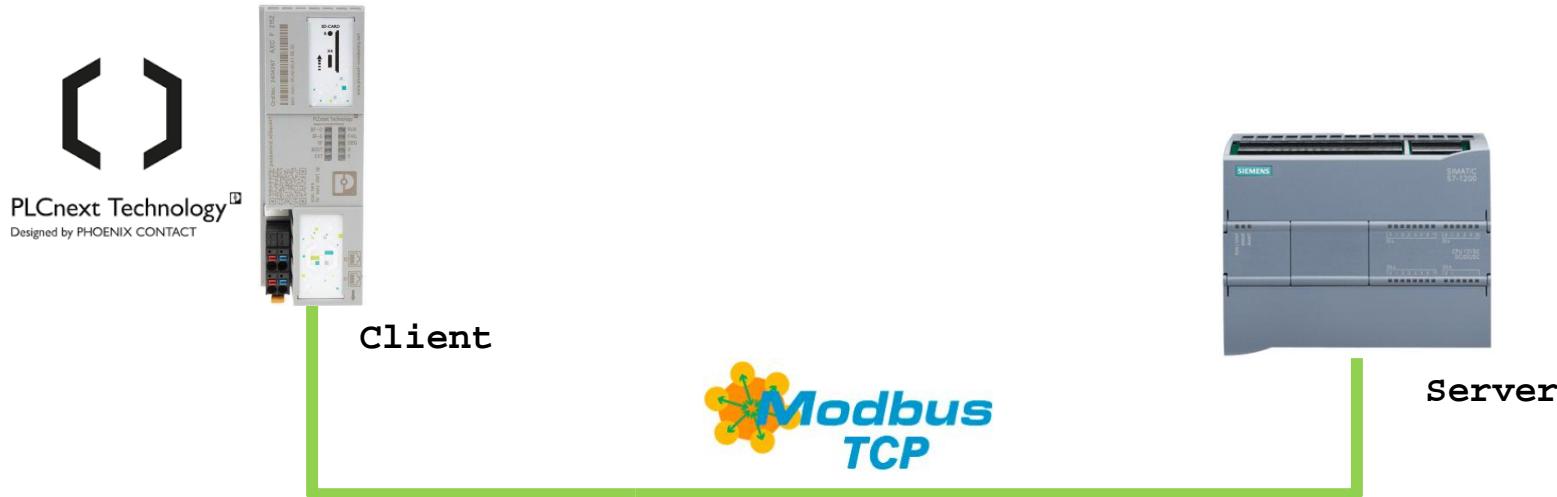


Guia de Configuração de Comunicação Modbus TCP/IP entre PLCnext e S7-1200



Na PLCnext Store baixar a biblioteca Modbus TCP

The screenshot shows the PLCnext Store website with the URL plcnextstore.com/#/ in the address bar. The header includes the Phoenix Contact logo, the text "PLCnext Store", and navigation links for "Search", "CONTRIBUTORS", "Help", "Login", and "Register now". The main content features a large image of a computer screen displaying a PLC programming interface with ladder logic. Overlaid on this image is the text "All you need for flexible engineering". In the bottom right corner of the main image, there is a teal "Install" button. Below the main image, there is a navigation bar with links: "Promoted", "Best Rated", "Top Downloads" (which is highlighted in yellow), "Most Recent", and "All".



AnalogTechnology

Phoenix Contact GmbH & Co. KG



[Download](#)

The AnalogTechnology library offers function blocks for acquisition and evaluation of analog signals.

Free



Modbus_TCP

Phoenix Contact GmbH & Co. KG



[Download](#)

For the MB_TCP_Server function block, the registers used for Modbus correspond to the elements of the `udfTCP_ComData` array. Each WORD array element is to be considered as a 16-bit Modbus register. The...





■ PLCnext Engineer

Engineering Software

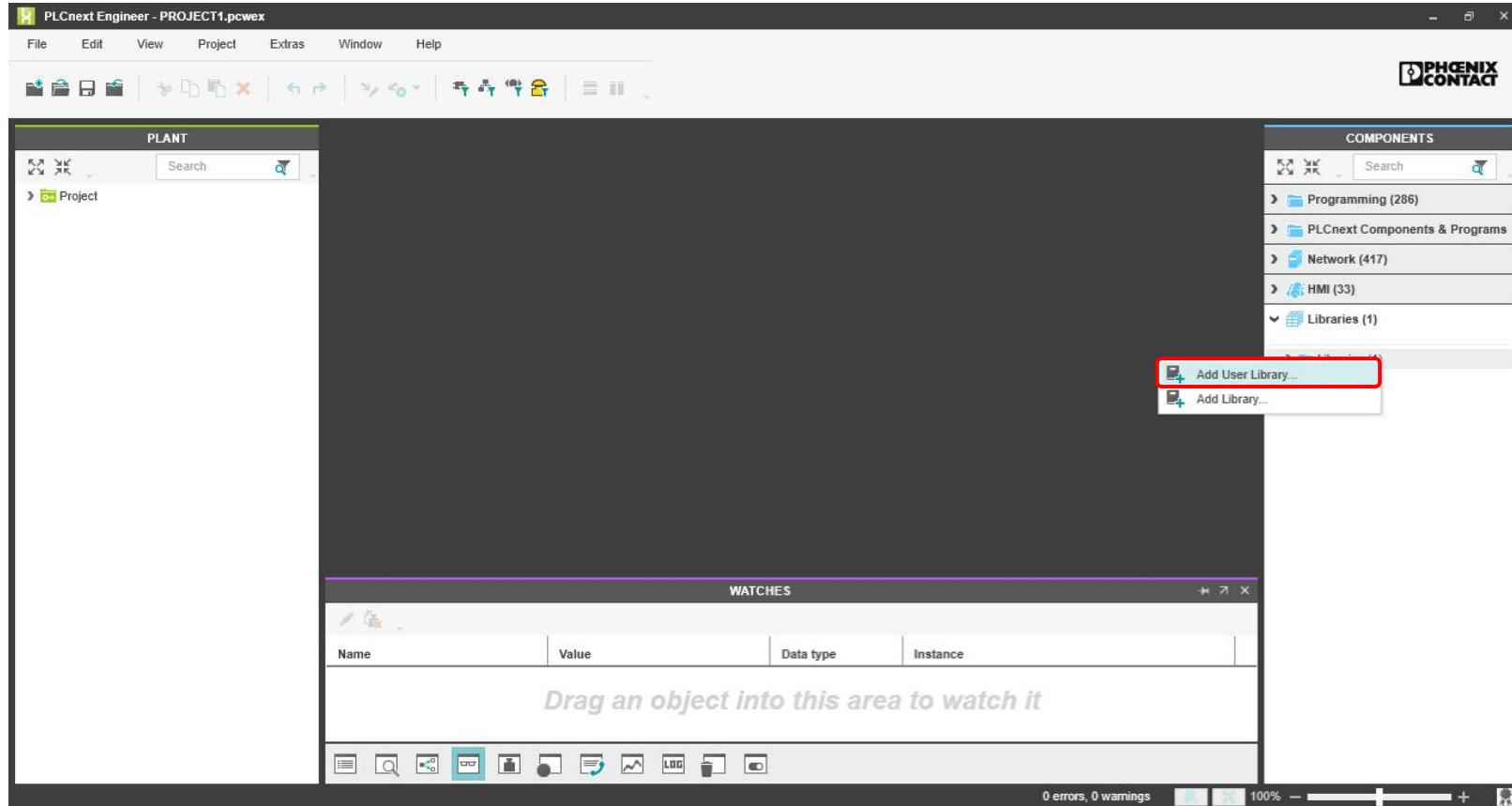
Version 2020.0.1 (Build 4.0.266.0)

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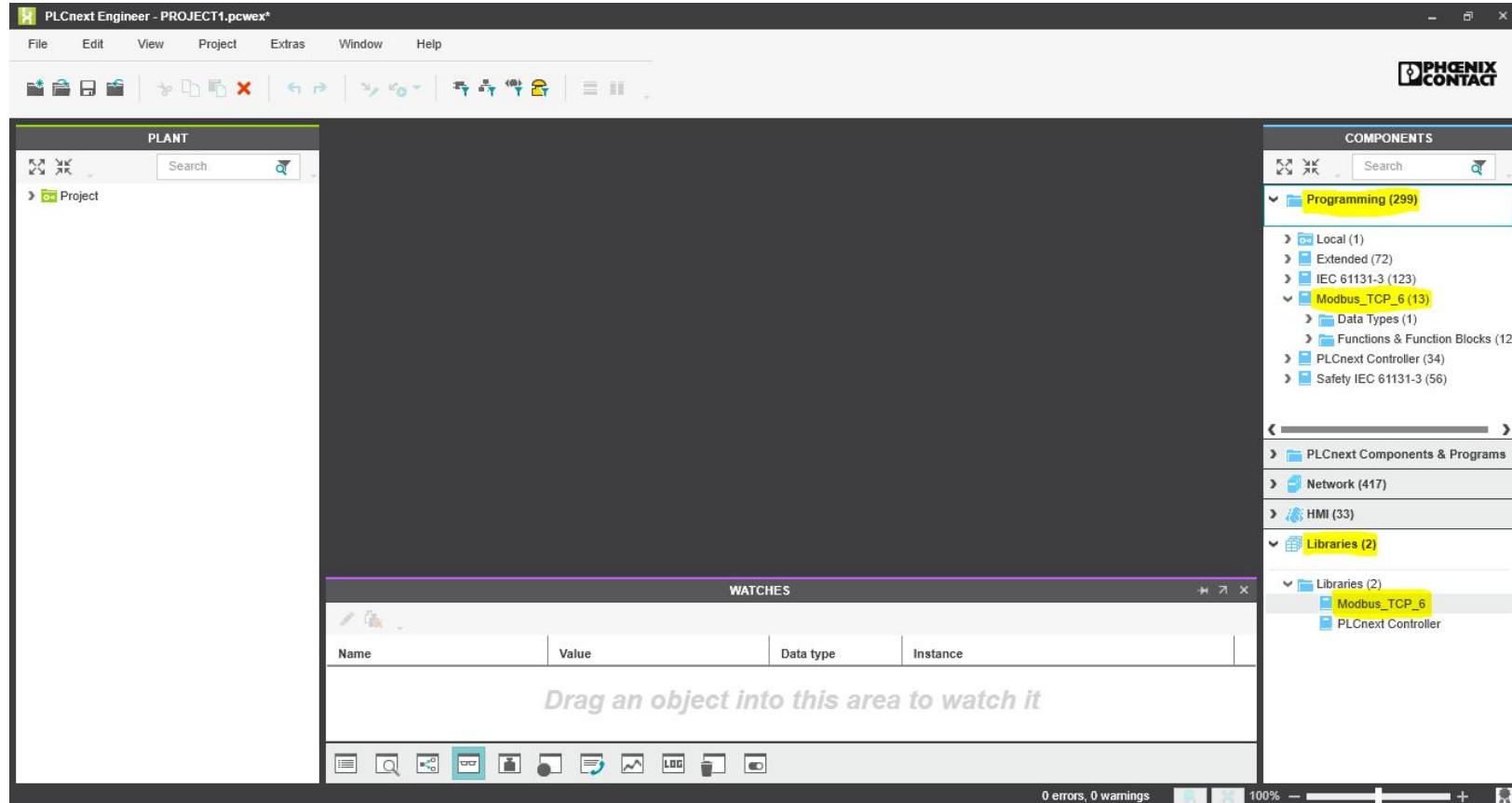
For up-to-date software versions
and error removals, visit
www.phoenixcontact.com



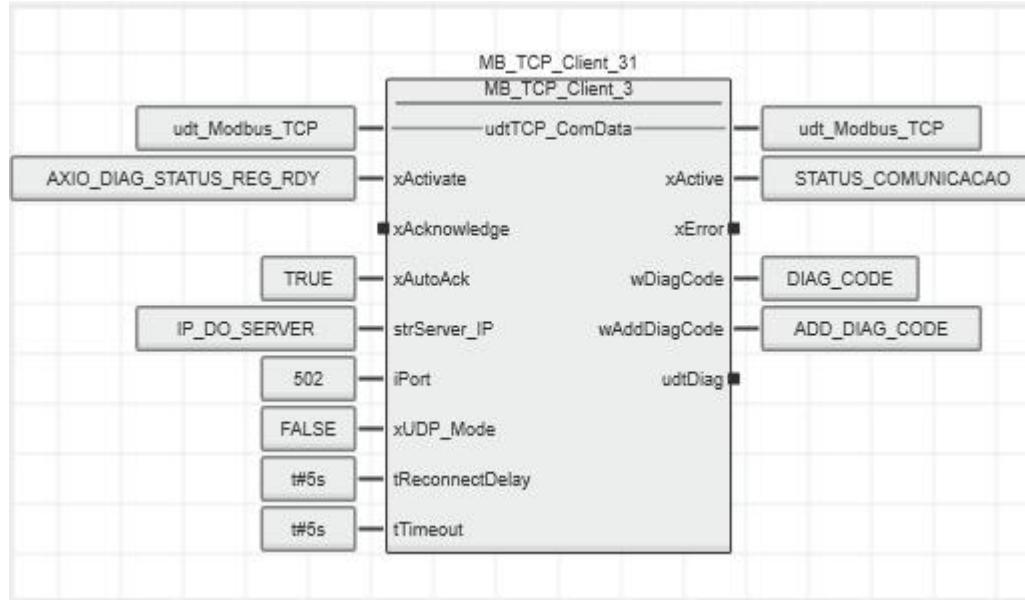
Após a instalação, realizar a importação da biblioteca



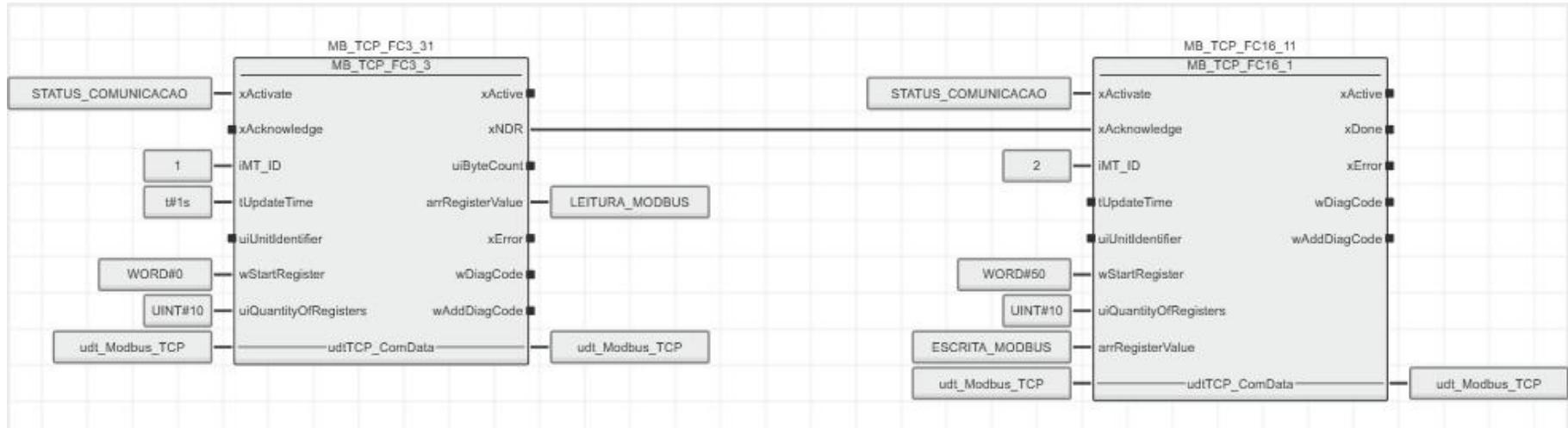
Biblioteca importada!



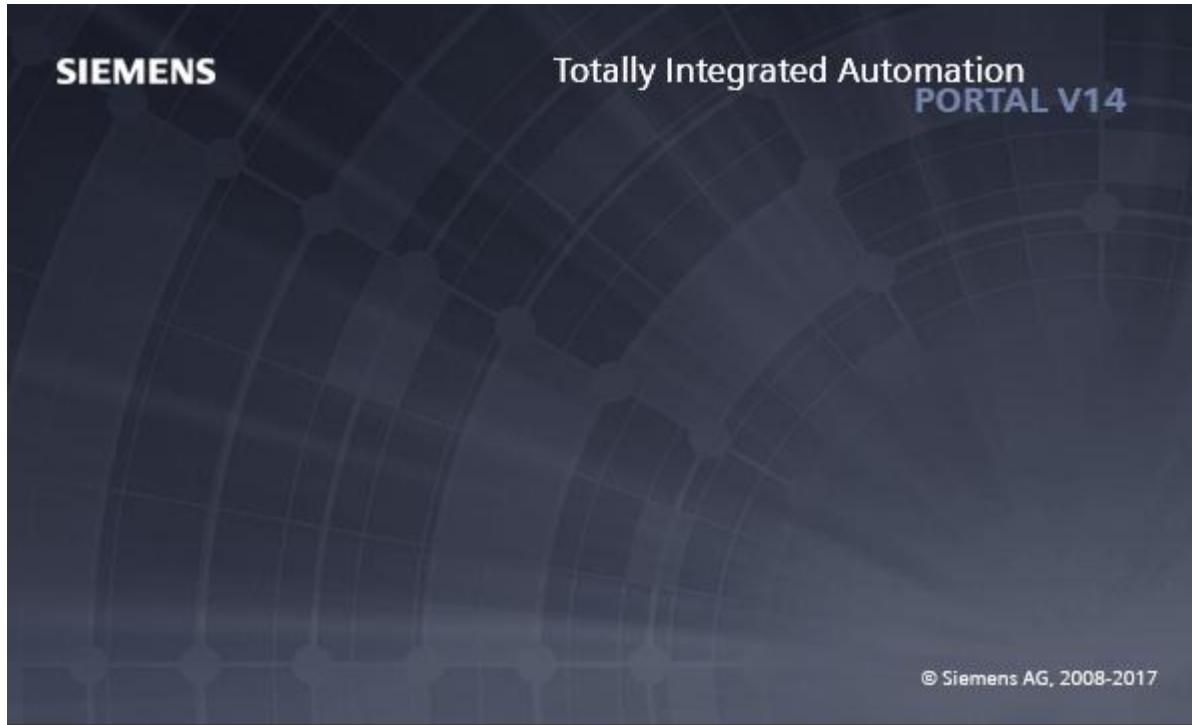
Configuração dos FBs e rotina de comunicação PLCnext Engineer



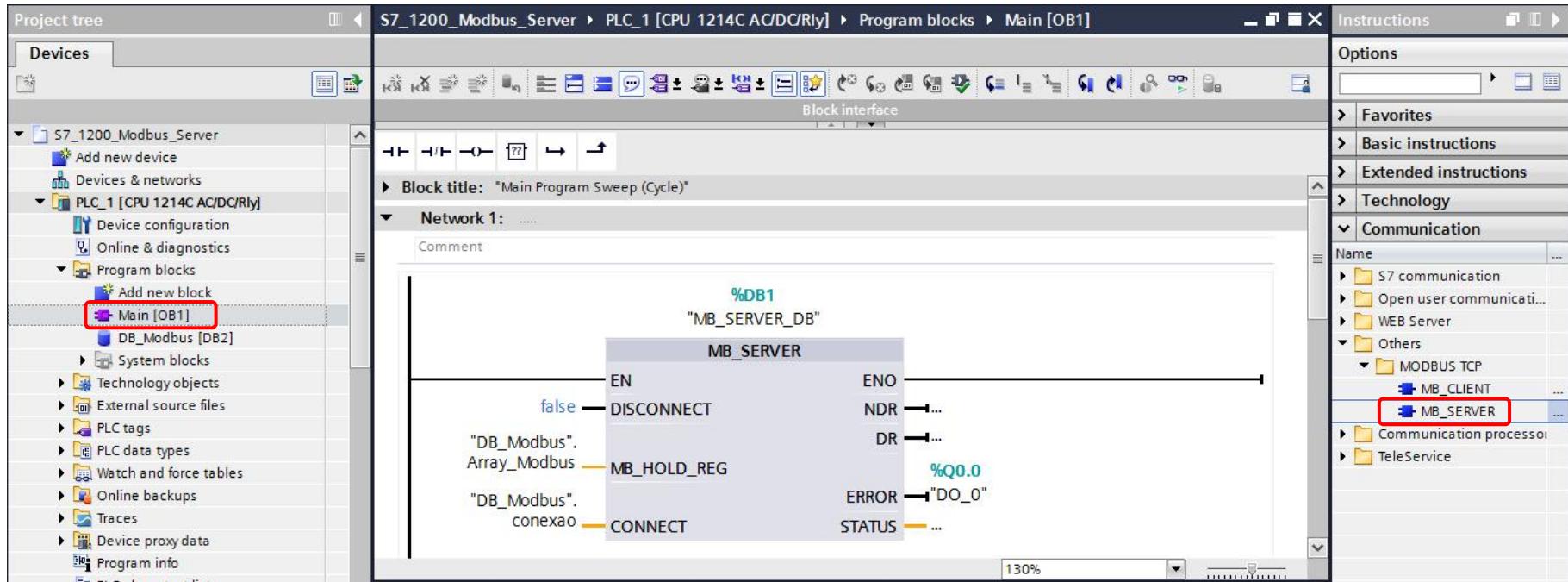
FBs de LEITURA e ESCRITA Modbus TCP/IP



Agora vamos fazer as configurações no TIA Portal



Configuração do FB de comunicação Modbus TCP/IP



Configuração do FB de comunicação Modbus TCP/IP

Project tree

Devices

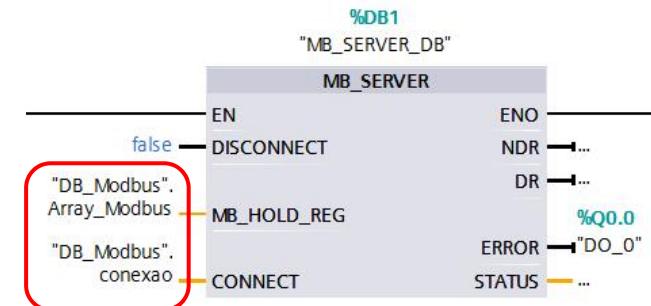
S7_1200_Modbus_Server

- Add new device
- Devices & networks
- PLC_1 [CPU 1214C AC/DC/Rly]
 - Device configuration
 - Online & diagnostics
- Program blocks
 - Add new block
 - Main [OB1]
 - DB_Modbus [DB2]**
- System blocks
- Technology objects
- External source files
- PLC tags
- PLC data types
- Watch and force tables

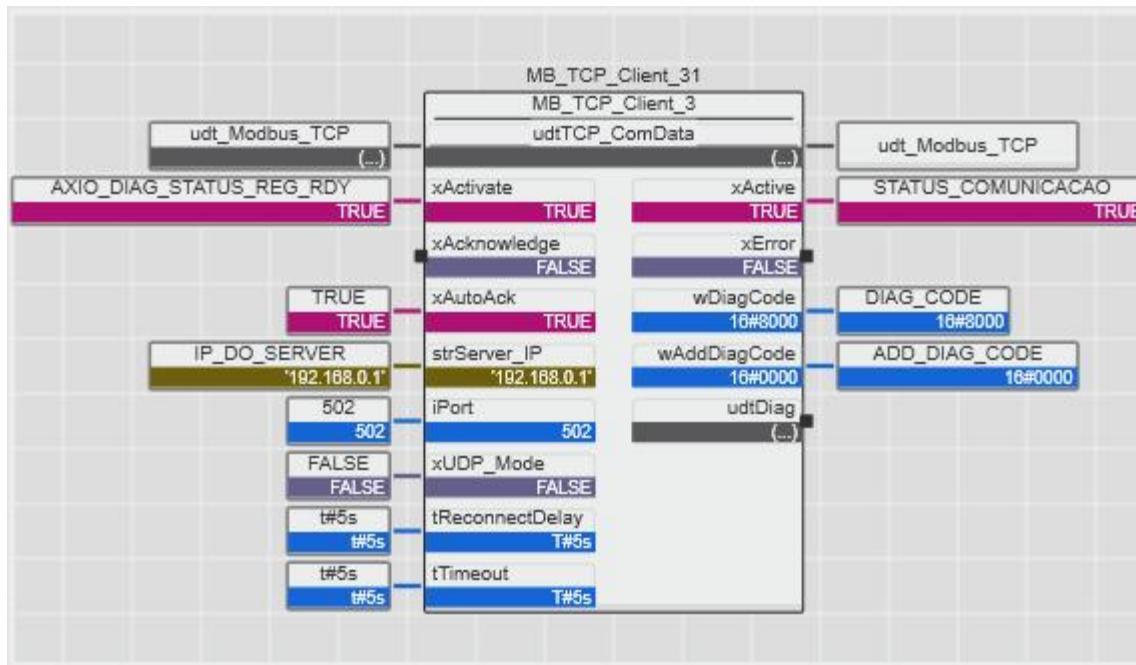
S7_1200_Modbus_Server > PLC_1 [CPU 1214C AC/DC/Rly] > Program blocks

DB_Modbus

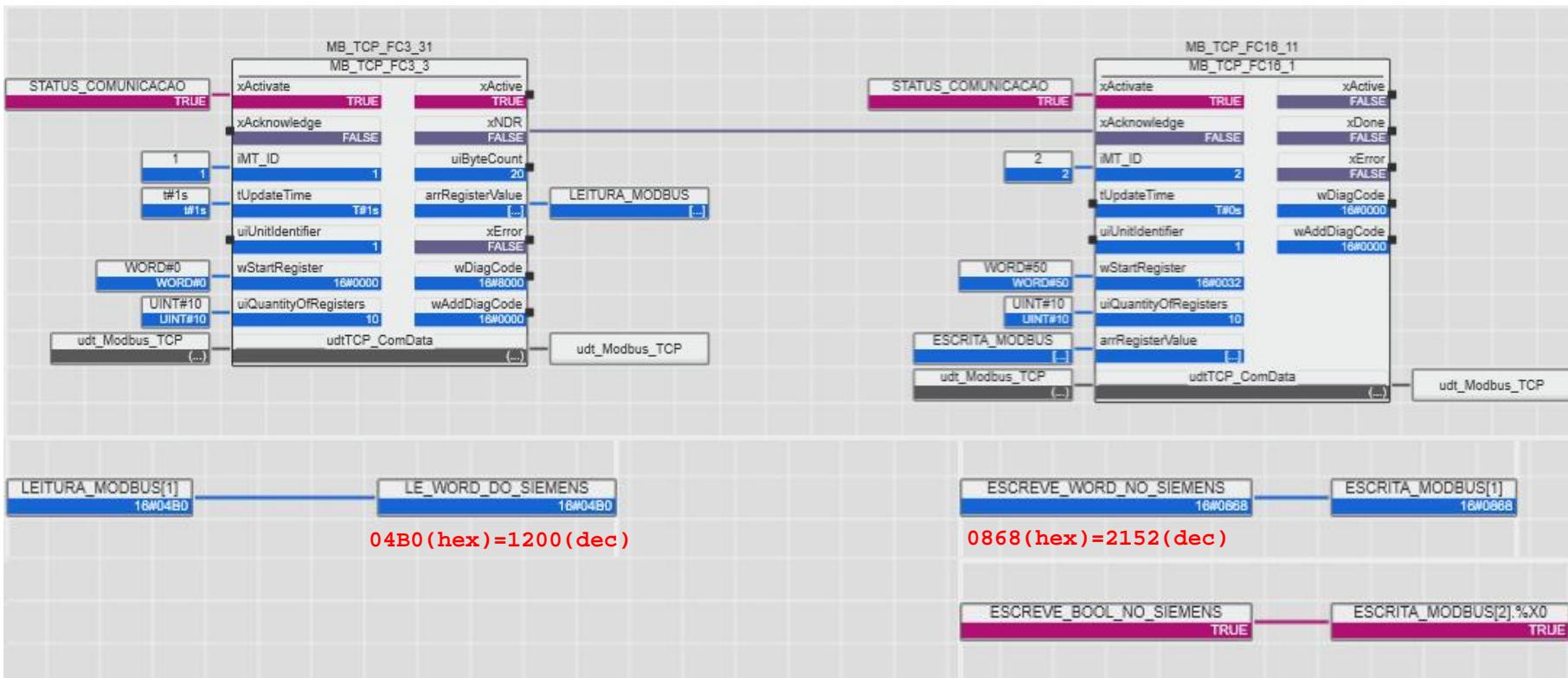
| Name | Data type | Start value |
|---------------------|---------------------|-------------|
| 1 Static | | |
| 2 Array_Modbus | Array[0..99] of Int | |
| 3 conexao | TCON_IP_v4 | |
| 4 InterfaceId | HW_ANY | 64 |
| 5 ID | CONN_OUC | 1 |
| 6 ConnectionType | Byte | 11 |
| 7 ActiveEstablished | Bool | false |
| 8 RemoteAddress | IP_V4 | |
| 9 RemotePort | UInt | 0 |
| 10 LocalPort | UInt | 502 |
| 11 INFORMA_VALOR | Int | 1200 |
| 12 RECEBE_VALOR | Int | 0 |
| 13 STATUS | Word | 16#0 |



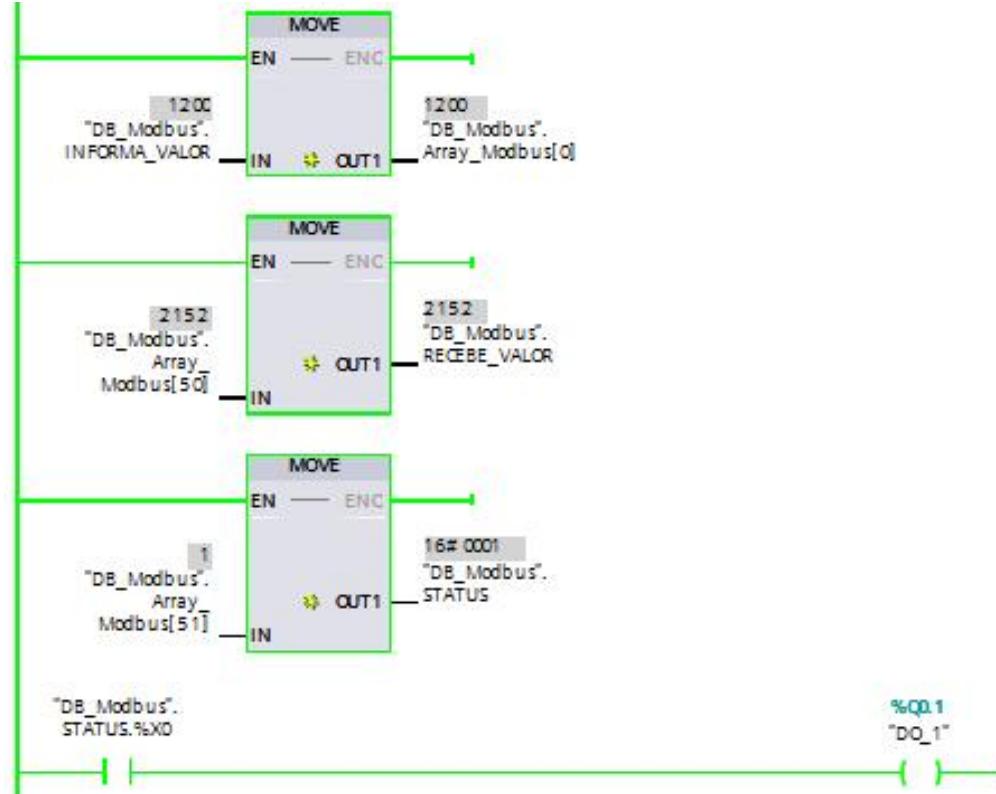
PLCnext Engineer em modo online



PLCnext Engineer em modo online



TIA Portal em modo online



Apresentação



Rodrigo Richter

Eng. de aplicação e desenvolvimento de negócios.

rrichter@phoenixcontact.com.br

Pronto!!!

Configuração realizada e comunicação estabelecida.
Agora você já pode iniciar a programação.