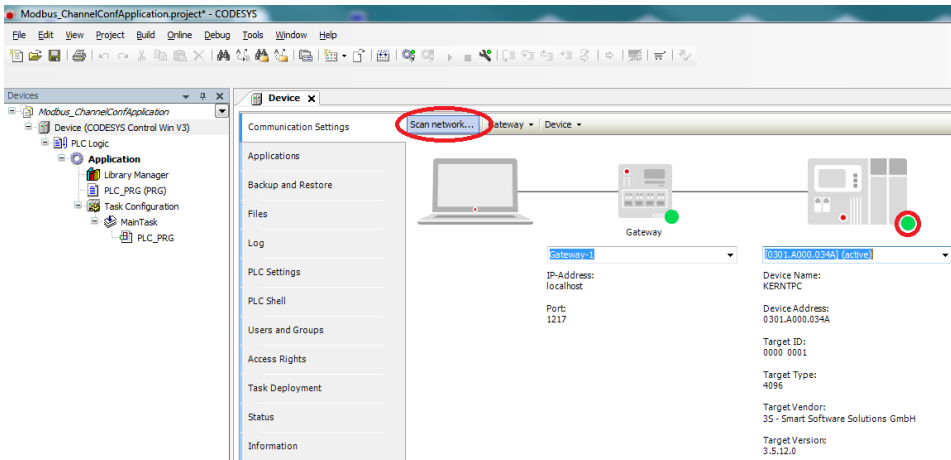



Modbus TCP Slave: Using the "Application" Channel Trigger

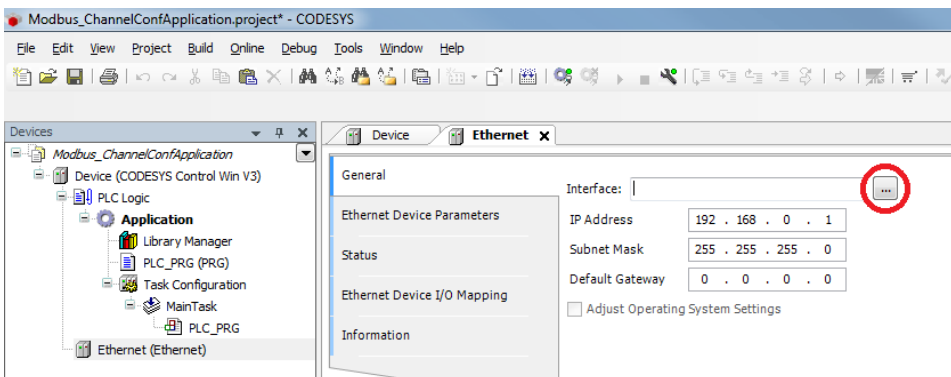
 The Modbus slave from the FAQ [Modbus Communication Master/Slave via Ethernet](#) is used here.

- Create a "Standard project" and select *CODESYS Control Win V3* as the device.
- Define the target system by means of the *Network scan*.



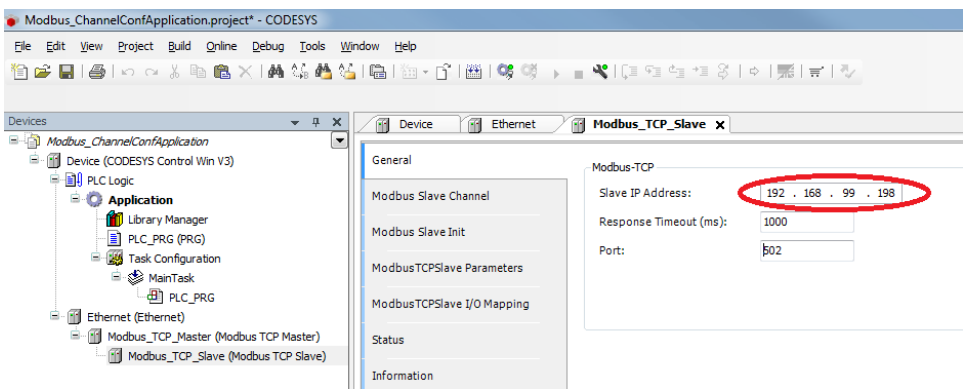
- Insert an *Ethernet* adapter in the device tree and specify the interface to be used.

 If a target system is not defined yet, then the error message "Gateway not configured" is displayed.

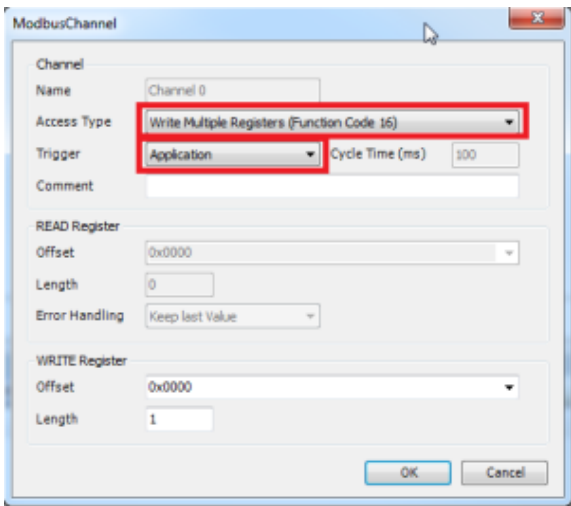


- Insert a *Modbus TCP Master* below the *Ethernet* adapter in the device tree.

- Insert a *Modbus TCP Slave* below the *Modbus TCP Master* in the device tree.



- Insert it in the *Modbus Slave Channel* tab and set the properties as follows:



- Adapt the POU *PLC_PRG* as follows:

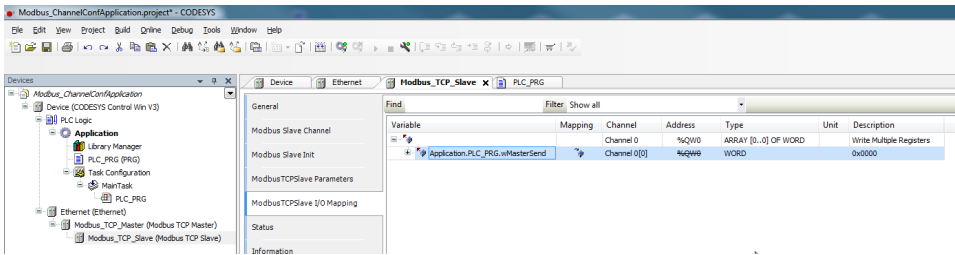
Declaration

```
VAR
    xExec          :   BOOL;
    wMasterSend     :   WORD := 100;
    mbChannel       :   ModbusChannel;
END_VAR
```

Implementa tion

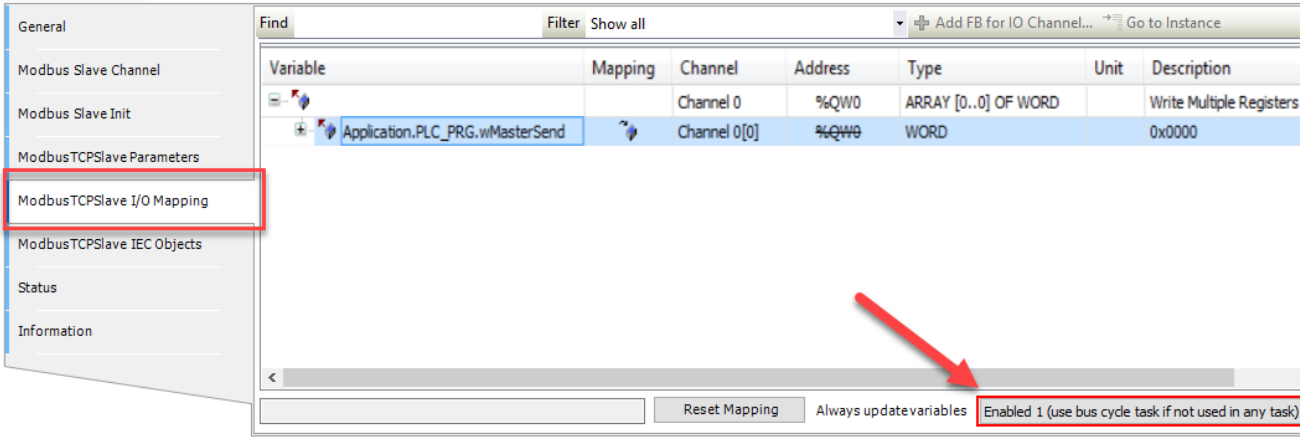
```
mbChannel(slave := Modbus_TCP_Slave, xExecute := xExec);
```

- Assign the variable *wMasterSend* to the output *Channel 0[0]* in the tab *ModbusTCPSlave I/O Mapping*.



i Please note, that under the *ModbusTCPSlave I/O Mapping* tab, the '*Always update variables*' is set to '*Enabled 1*' :

Modbus_TCP_Slave



See also our [OLH for Basic settings with Fieldbus Devices and I/O Drivers](#).

- Start the project and set the variable *xExecute* to *TRUE* so that the new value is passed to the slave.