1.For Server Device check using Modsim for data Exchange then follow the steps

2.First Install TF6250 in Target & XAE system

3.Confirm the IP Address & Port Number of Server

4.Add Hardware as per your design

A screenshot of a computer screen

Description automatically generated with medium confidence

5.Add Reference Tc2\_ModBusSrv

6.In Main Program

Variable

sIpAddr : STRING[15] := '192.168.001.252';

nport : UINT := 502;

nUnitID : BYTE := 1;

tTimeOut : TIME := T#1S;

nOfReg : UINT := 10;

nAddr :WORD := 0;

fb\_MBReadRegister: FB\_MBReadRegs;

bReadEnable: BOOL;

bReadBusyFlag: BOOL;

bReadErrorFlag: BOOL;

nReadErrorID: UDINT;

ireadReg : ARRAY[1..10] OF WORD;

n :INT := 0;

bWriteBusyFlag: BOOL;

bWriteEnable: BOOL;

fb\_MBWriteRegister: FB\_MBWriteRegs;

bWriteErrorFlag: BOOL;

nWriteErrorID: UDINT;

iWriteReg : ARRAY[1..10] OF WORD;

Program

(\* For Alternate Read & Write of Register \*)

IF n >= 100 AND NOT bReadBusyFlag THEN

bReadEnable := TRUE;

ELSIF n >= 200 AND NOT bWriteBusyFlag THEN

bWriteEnable := TRUE;

n := 0;

END\_IF

n := n+1;

(\* Read Register \*)

fb\_MBReadRegister(

sIPAddr:= sIpAddr,

nTCPPort:= nport,

nUnitID:= nUnitID,

nQuantity:= nOfReg ,

nMBAddr:= nAddr ,

cbLength:= SIZEOF(ireadReg),

pDestAddr:=ADR(ireadReg) ,

bExecute:=bReadEnable ,

tTimeout:= tTimeOut ,

bBusy=> bReadBusyFlag,

bError=> bReadErrorFlag ,

nErrId=> nReadErrorID ,

cbRead=> );

bReadEnable := FALSE;

(\* Write Register \*)

fb\_MBWriteRegister(

sIPAddr:= sIpAddr,

nTCPPort:= nport ,

nUnitID:= nUnitID ,

nQuantity:= nOfReg,

nMBAddr:= nAddr + 10 ,

cbLength:= SIZEOF(iWriteReg),

pSrcAddr:= ADR(iWriteReg),

bExecute:= bWriteEnable,

tTimeout:= tTimeOut,

bBusy=> bWriteBusyFlag,

bError=> bWriteErrorFlag,

nErrId=> nWriteErrorID );

bWriteEnable := FALSE;

6.Set IP Adress of Servers as per requirement & port should be specified (Usally 502 but it can be changed if multiple modbus servers are there in same IP)

7.Program will alternately read & write register every 1 secs

Note :

If Address in Modscan is 1 then in MBAddress it should be 0 (-1)

19.Refer Infosys for further information

20. Github Link https://github.com/gokulgbeckhoff/ModbusTCPIP