## Communication between Siemens S7-1200 PLC and Delta HMI

## 1. Configuration on the HMI side using DOPSoft

1.1 Select "Options" => Communication Setting from the Menu

	Ор	tions Window Help						
		Configuration						
i		Communication Setting						
ĸ		<u>A</u> larm Setup						
-		History Buffer Setup						
c		Password setting						
		Tag Table						
	Print Typesetting							
		Sound Setting						
1		FileSlot Manage						
l		Real Time Clock Setting						
l		Recipe						
l		32 bits recipe						
		Picture Bank						
,		<u>T</u> ext Bank						
		Submacro						
		Initial Macro						
		Background Macro						
1		Clock Macro						
		Environment						

1.2 In the Communication Setting window click on the Ethernet port, select "S7 1200 (ISO TCP)" as the controller and specify the IP address and Port of the communication partner

	Communication Setting									
	COM1	Device LocalHost SMTP								
	COM2	Link Name     Detail       00-S7-1200     Controller       S7 1200 (ISO TCP)       Communication Parameter								
(	сема Ethernet	Controller IP : Port 192 . 168 . 0 . 1 : 102 -								
	$\smile$	PLC Station 2 Password 12345678 Comm. Delay Time(ms) 0								
		Timeout(ms) 300 Retry Count 3								
		✓ Optimize								

## 2. Configuration on the PLC side using TIA Portal

- 2.1 Ethernet communication with manual connection management using TCON System Function Block (SFB)
- 2.2 Open the "Main [OB1]" operation block
- 2.3 In "Instructions" -> "Extended instructions" -> "Communications" -> "Open user communication", open the "Others" folder and drag the "TCON" block to the operation block. This automatically generates an instance data block for the "TCON" function that you have to confirm with "OK"

Network 6:	Call options	×	Program control
Comment		Datablock	<ul> <li>Communications</li> </ul>
			Open user communication
XM0.0 ??		Name T_CON_DB	TSEND_C
"Others" TCUN	1		TRCV_C
	Single	Number 6	<ul> <li>Others</li> </ul>
ID BUSY	Instance	Manual	TCON
< TTO - CONNECT ERROR -			TDISCON
STATUS -		Automatic	TSEND
		The called function block saves its data in its own instance	TRCV ==
	-	data block.	Point to point
	Multi		PORT_CFG
Network 7:	Instance	More	SEND_CFG
Comment			RCV_CFG
			SEND_PTP
		OK Cancel	RCV_PTP

2.4 Set the Input and Output parameters of the TCON block. Press F1 when selecting the TCN Block to access online help



