

FAQ • 03/2014

Why can you not transfer the HMI configuration to the panel? - PROFIBUS Connection -

http://support.automation.siemens.com/WW/view/en/88633853

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Caution

The functions and solutions described in this entry are predominantly limited to the realization of the automation task. When linking your system to other system components, to the company network or to the internet, appropriate industrial security measures must be taken. More information about this is available in Entry ID: !50203404!.

http://support.automation.siemens.com/WW/view/en/50203404

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1 General

1.1 Contents

This entry describes different solutions if you should encounter problems when transferring the configuration file to the HMI operator panel. Possible causes are listed and remedies given for clearing them.

Requirement

Transfer of the HMI configuration to the operator panel is by PROFIBUS or MPI.

1.2 Settings

You must open different menus to check the settings. This chapter describes how to get to the menus and settings. In later error analyses we refer to this chapter.

1.2.1 Settings on the Panel

Set the panel to the Transfer mode



Note The document describes troubleshooting using PROFIBUS. The procedure using MPI is done in the same way.

Make Transfer settings on the panel



Change bus parameters on the panel



Tuble						
No.	Action					
1.	 Select the "Control Panel" button in the "Loader" menu. In the "Control Panel" you select the "Transfer" icon. Select the "Channel" tab. Select "PROFIBUS" from the list. Click the "Properties" button. Transfer Settings OK Remote Control Properties Profile Profile Panelers					

1.2.2 Settings on the Configuration PC

Settings of the PG/PC interface (WinCC flexible 2008)

Table 1	I-4				
No.	Action				
1.	 Click the Windows "Start" button and open the Control Panel. Select the "Set PG/PC interface" item. In the "Set PG/PC interface" dialog you select the interface parameter assignment and access point. Click "Properties" to set the properties of the CPs. 				
	Search Control Panel				
	File Edit View Tools Help Adjust your computer's settings Access Path LLDP / DCP PNIO Adapter Info				
	Computer Parential Controls Personalization Power Options QuickTime (32-bit) Region and Language SIMATIC HMI DH485 (92-bit) SIMATIC HMI DH485 (92-bit) Simatric HMI DH485 (92-bit) Simatric HMI DH485 (92-bit) Windows CardSpace Windows Firewall Windows Firewall Computer OK Cancel Help				
2.	• You specify the properties of the CP in the window. Properties - CP5611.PROFIBUS.1 PROFIBUS Station Parameters P G/PC is the only master on the bus Address: Check address Transmission rate: 1.5 Mbps Highest station address: 126 Profile: Profile: Decide address: 126 Bus Parameters Use the following network configuration Master: Sloves:				

Parameterize the MPI/PROFIBUS interface (WinCC (TIA Portal))

10.	Action			
	 Action In the project tree, the "Online access" folder gives you all the enabled interfaces of the PG/PC. Right-click the CP you are using. Select the "Properties" command in the pop-up menu. The "Properties" dialog opens. The area navigation is on the left. Select and change the relevant parameters as required. Notes Make sure that the bus settings are identical to those of the configured and connected PROFIBUS. Details on the parameters are available in the Online Help. 			
	Project tree Image: CPS611 [PROFIBUS] Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of the configuration Image: Complexity of th			

Network settings in the HMI configuration

Table '	I-6						
No.	Action						
1.	 Open the Device Configuration of the HMI operator panel. Enable Network View. Mark the PROFIBUS segment with the mouse. You can make different network settings under "Properties > General > Network settings". 						
	🖉 Topology view 🔥 Network view 📑 Device view						
	Network Connections HML_connection V S Connection V						
	HMI_02_PROFI TP1200 Comfort						
	< III > 1						
	Network data						
	PROFIBUS_1 [Profibus] Properties I Info 1 Diagnostics I I I						
	General IO tags Texts General Network settings Cable configuration Additional network devices Bus parameters Highest PROFIBUS address: 126 Transmission speed: 1.5 Mbps Profile: Standard						

Transfer settings in the HMI configuration

Exten	ded download t	to device Configured access	nodes of*HM	I_02_PROFIBUS*	-	-	_	-
		Device		Device type	Slot	Туре	Address	Subnet
		HMI_RT_4				S7USB	-	
		HMI_02_PROFIBUS	.IE_CP_1	PROFINET Interface	51	PN/IE	192.168.0.2	
		HMI_02_PROFIBUS	.MPI/DP_CP_1	MPI/DP Interface	7 X2	PROFIBUS	10	PROFIBUS_
				Type of the F	G/PC interfa	ace:	ROFIBUS	•
		PG/PC interface: 🔤 CP5611 💌						
		Connection to subnet: PROFIBUS_1						
					1st gatev	vay:		
		Compatible device	s in target sul	onet:			Show all co	mpatible devi
		Device	Device	type Type		Address	Target	device
		-		PROFIB	US	10		
	Flash LED							

2 Basic Check

This chapter describes the most common sources of error.

If you cannot now transfer the configuration to the HMI operator panel, then you must run a detailed check. Refer here to chapter $\underline{3}$.

2.1 General Settings

Check the PROFIBUS address

Check the PROFIBUS address and associated network parameters

- On the panel (for details about calling functions see <u>1.2.1</u>).
- On the configuration PC (for details about calling functions see <u>1.2.2</u>).
- In the HMI configuration (for details about calling functions see <u>1.2.2</u>).

Network parameters to be checked

- Address
- Transmission rate
- Highest station address
- Profile

2.1.1 Settings on the panel

Table 2-1

No.	Action					
1.	Panel in Transfer mode					
	• Set the panel to Transfer mode.					
	Note Also set the panel to Transfer mode even if you have chosen the "Enable automatic transfer" (Remote Control) option in the transfer settings on the panel.					
	Loader					
	Transfer					
	Start					
	Control Panel					
	Taskbar					

No.	Action				
2.	 Settings for the transfer and bus parameters (Comfort Panel) Compare the settings made here with the transfer settings in the HMI configuration. Check the PROFIBUS network installation. Make sure that the "Enable Transfer" option is enabled. 				
	Transfer Settings OK Channel Directories Image: Channel Directories Image: Channel Directories				
	PN/IE PP0/IE Properties Properties PROFIBUS OK ×				
	OK Station Parameters Address: 10 Time-out: 10 s				
	Network Parameters Transmission Rate: 1,5 Mbits\s Highest Station Address: 126 Profile Standard Bus Parameters				

2.1.2 Settings on the PC

Table 2-2



No.	Action
3.	Transfer settings
	 Compare the transfer settings with those made on the operator panel.
	Estanded downland to device
	Configured access nodes of "HMI 02 PROFIBUS"
	Device Device type Slot Type Address Subnet
	HML_01_PROFIBUS.IE_CP_1 PROFINET Interface 5 1 PN/IE 192.168.0.2
	Type of the PGIPC interface:
	PGIPC interface: CP5611
	1st geteway:
	Compatible devices in target subject:
	Device Device type Type Address Target device
	Flash LED
	Befresh
	Online status information:
	Connection established to the device with address 10. ① Scan completed.1 compatible devices of 1 accessible devices found.
	Retrieving device information
	Load Cancel
1	BG/BC interface (WinCC florible 2008)
4.	
	• Check the settings of the PG/PC interface (only necessary when using WinCC flexible).
	Set PG/PC Interface Properties - CP5611.PROFIBUS.1
	Access Path LLDP / DCP PNIO Adapter Info PROFIBUS
	Access Point of the Application:
	S7ONLINE (STEP 7) -> CP5611.PROFIBUS.1 Address: 0
	(Standard for STEP /) I Check address
	CP5611.PROFIBUS.1 <active> Properties. Network Parameters</active>
	Diagnostics. Transmission rate: 1.5 Mbps
	Beg CP5611.PPI.1 Beg CP5611.PROFIBUS.1 <active> Copy Highest station address: 126 ▼</active>
	Profile: DP Standard Universal (//P/EMS)
	(Parameter assignment of your
	communications processor CP5611 for a Bus Parameters PROFIBUS network)
	Interfaces Network Configuration Use the following network configuration
	Add/Remove: Select Master: 1 - Slaves: 0 -
	OK Cancel OK Defect Cancel Help

2.1.3 PROFIBUS male bus connectors

Check the PROFIBUS male bus connectors for the following points. Figure 2-1



- Switch position of the bus terminating resistor.
 - ON: The switch position must be "ON" (terminator activated) on the PROFIBUS for the first and last station (activated terminator). There is only one incoming line on the connector.
 - OFF: The switch position must "OFF" (terminator deactivated) on the PROFIBUS for all the other stations. There is an incoming and an outgoing line on the connector.
- Incoming cables are always connected on the **left** (see coding A1, B1).
- Incoming cables are always connected on the left (see coding A1, B2).
- Check the cable connections as necessary. Make sure that the connectors are wired in properly.
 - Incoming line and outgoing line mixed up.
 - Incorrect connection (green/red mixed up).
 - Defective shielding.

2.1.4 Repeater

Check the network topology.

Is the HMI operator panel connected after a repeater in the network? Make sure that the repeater power supply is switched on.

2.1.5 Cable Connections

Cable connections between the operator panel, the PC and other PROFIBUS stations.

PROFIBUS cable

Always use an original PROFIBUS cable.

Figure 2-2



MPI cable

Always use an original PROFIBUS cable also in MPI networks and for transferring the configuration.

PC Adapter USB

Note that the "PC Adapter USB" is not released for all operator panels. More information about this is available in the FAQ response in Entry ID $\underline{19109408}$.

Network structure

Wire the PROFIBUS stations as shown in the figure below. Pay attention here to the switch position of the bus terminating resistor (for this see section 2.1.3). Figure 2-3



3 Detailed Check

3.1 PC Settings

3.1.1 Check the Interface

WinCC (TIA Portal)

When using WinCC (TIA Portal), there is no need to make any settings in the PG/PC interface for transferring the configuration to the operator panel. All the required settings are made in the "Extended download" menu.

To check the properties of the CP used, refer to the description in section <u>1.2.2</u>.

WinCC flexible 2008

When using WinCC flexible 2008, check the settings in the PG/PC interface.

No.	Action					
1.	 Change the settings of the PG/PC interface In the dialog window you select the CP you are using. In this example "CP5611 PROFIBUS". Under "Access Point of the Application" you select "S7ONLINE (STEP 7) → your CP". 					
	Control Panel All Control Panel Items	✓ 4y Search Control Panel				
	File Edit View Tools Help					
	Action Center Administrative Tools B Set PG/PC Interface Image: Computer Access Path LLDP / DCP PNIO Adapter Info Image: Computer Access Path LLDP / DCP PNIO Adapter Info Image: Computer Access Path LLDP / DCP PNIO Adapter Info Image: Computer Access Path LLDP / DCP PNIO Adapter Info Image: Computer Access Path LLDP / DCP PNIO Adapter Info Image: Computer Properties Image: Computer Properties Image: Computer	 AutoPlay Credential Manager Desktop Gadgets Display Flash Player (32-bit) Getting Started Thremet Options Location and Other Sensors Network and Sharing Center Performance Information and Tools Power Options Set PG/PC Interface (32-bit) Sound System User Accounts Windows CardSpace Windows Update 				

No.	Action
2.	 Change the properties of the PG/PC interface Open the Properties of the selected interface with the "Properties" button. Enable the option "PG/PC is the only master on the bus". Enter "0" (null) for the "Address". The other parameters must match the transfer settings on the operator panel and the HMI configuration. Click "OK" to confirm the settings.
	Set PG/PC Interface EX Access Path LLDP / DCP PNIO Adapter Info Access Point of the Application: Froperties - CP5611.PROFIBUS.1 Image: CP5611.PROFIBUS.1 (Standard for STEP 7) Interface Parameter Assignment Used: Properties Properties [CP5611.PROFIBUS.1 <active> Properties Diagnostics Image: CP5611.PROFIBUS.1 <active> [CP5611.PROFIBUS.1 <active> Diagnostics Copy Diagnostics Image: CP5611.PROFIBUS.1 <active> [CP5611.PROFIBUS.1 <active> Copy Diagnostics Image: CP5611.PROFIBUS.1 <active> Image: Copy [Parameter assignment of your communications processor CP5611 for a PROFIBUS network) Delete Network Parameters Image: Copy Interfaces Add/Remove: Select DP Profile: Profile: OK Cancel Use the following network configuration Master: Image: Sleves: Image: Copy Sleves: Image: Copy</active></active></active></active></active></active>
3.	OK Default Cancel Help Troubleshooting Note If you cannot change the PG/PC interface, check whether "PLC SIM" or an HMI Runtime is still enabled. PLC SIM disables all other online interfaces. In this case, first close the running application (assuming that this is allowed to be closed).
	Perform network diagnostics. See section <u>3.1.2</u> for this.

3.1.2 Network Diagnostics: Display Accessible Devices

WinCC (TIA Portal)

No.	Action					
1.	Online access					
	Open the WinCC (TIA Portal) configuration.					
	Open the "Online access" folder in the project tree. The folder contains all the analysis of your PC/PC					
	I he folder contains all the enabled interfaces of your PG/PC.					
	Open the subtolder of the CP used. In this example "CP5611 PROFIBUS". To undate the list you double-click					
	"Update accessible devices".					
	If the panel is accessible in the network, it is listed underneath the interface used. In this example these are the PROFIBUS devices with the addresses "2" (PLC) and "10" (HMI operator panel).					
	Note Detailed information about "Online access" is available in the Online Help.					
	Devices					
	1800					
						
	>] Projekt]					
	Projektz					
		1990				
	COM IRS 232/PPI multi-master cable 1					
	COM <3> [RS 232/PP] multi-master cable]					
	COM <4> [RS232/PPI multi-master cable]					
	Intel(R) 82566DM-2 Gigabit Network Connection					
	CP5611 [PROFIBUS]					
	The Update accessible devices					
	▶ PLC_1 [PB =2]					
	Filmehmer [PB =10]					
	PC Adapter [MPI]	122				
	PC internal					
	PLCSIM [PN/IE]					
	TeleService [Automatic protocol detection]					
	Card Reader/USB memory					

No.	Action
2.	Troubleshooting
	 The panel is in the list of accessible devices. If the panel you are using is in the list of accessible devices, check the PROFIBUS addresses of the other devices in the list. There might be a device there with the same PROFIBUS address. Set the panel to Transfer mode.
	 The panel is not in the list of accessible devices. Check the cable connection. See section <u>2.1.5</u> for this. Check the PROFIBUS male bus connectors. See section <u>2.1.3</u> for this. Check the PROFIBUS settings in the HMI configuration. See section <u>3.2</u> for this. Check the PROFIBUS settings on the operator panel. See section <u>3.3</u> for this.

Network diagnostics: WinCC flexible

No.	Action
1.	Call diagnostics (open the PG/PC interface)
	Call the PG/PC interface.The access point / interface must be set to PROFIBUS.
	Search Control Panel > All Control Panel Items > +
	File Edit View Tools Help
	Action Center Administrative Tools AutoPlay Image: AutoPlay Image: AutoPlay Image: AutoPlay Ima
	Image: Section 2 of LD // model and and for STEP 7) Image: Section 2 of LD // model and and for STEP 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for Step 7) Image: Section 2 of LD // model and for /
	Image: Cost 11, Prot/FildDo 11, 2-ActiveS Copy Image: Cost 11, Prot/FildDo 11, 2-ActiveS Copy Image: Cost 11, Prot/FildDo 12, 2-ActiveS Copy Image: Cost 11, Prot/FildDo 12, 2-ActiveS Image: Cost 11, 2-ActiveS Image: Cost 11, Prot/FildDo 12, 2-ActiveS Image: Cost 12, 2-ActiveS Image: Cost 11, Prot/FildDo 12, 2-ActiveS Image: Cost 12, 2-ActiveS Image: Cost 11, Prot/FildDo 12, 2-ActiveS Image: Cost 12, 2-ActiveS Image: Cost 12, 2-
	SI PROFIBUS network) Sound Imperfaces Imperfaces Imperfaces T. Add/Remove: Select Windows ConfState Windows ConfState
	Windows Update
	Click the "Diagnostics" button. The "SIMATIC NET diagnostics" window opens.

No.	Action						
	SIMATIC NET diagnostics" window						
	Set PG/PC Interface						
	SIMATIC NET diagnostics - CP5611.PROFIBUS.1						
	PROFIBUS/MPI Network Diagnostics Hardware						
	Test OK						
	Station address: 0 Properties						
	Baudrate: 1500.00 Kbps A Diagnostics						
	Highest station address (HSA): 126 Minimum station delay Time (Min Tsdr): 11 tBit Maximum station delay Time (Max Tsdr): 150 tBit Setup time (tset): 1 tBit ▼ Delete						
	Bus Nodes 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19						
	60						
	Read Station active						
	OK Cancel Help						
	 Perform network diagnostics for the CP by clicking the "Test" button. 						
	• If the network diagnostics test is "OK", click the "Read" button.						
	 The "Bus Nodes" table shows all the recognized PROFIBUS stations. In this example these are the bus nodes with the addresses "0" (PC); "2" (PLC) and 						
	"10" (HMI operator panel).						
2.	Troubleshooting						
	 The panel is in the list of accessible devices. If the panel you are using is in the list of accessible devices, check the PROFIBUS. 						
	addresses of the other devices in the list. There might be a device there with the same						
	- Set the panel to Transfer mode.						
	Network diagnostics. If the apprenting mode is not "OK", sheek the herdware and the herdware and the hus						
	parameters in the PG/PC interface. If necessary, check the CPU settings in the Hardware						
	 Configuration and the settings on the panel. The panel is not in the list of accessible devices 						
	- Check the cable connection. See section <u>2.1.5</u> for this.						
	- Check the PROFIBUS settings in the HMI configuration. See section <u>3.2</u> for this.						
	- Check the PROFIDUS settings on the operator panel. See section 3.3 for this.						

3.2 HMI Configuration

3.2.1 Check the PROFIBUS Settings

No.		Action					
1.	Network view						
	 Open the Device Vie Mark the PROFIBUS	ew of the operator panel and call the Network View. S interface of the operator panel and check the parameters entered.					
		🚽 Topology view 🛔 Network view 👔 Device view					
	Network						
	PROFIBUS_1						
	HMI_02_PROFI TP1200 Comfort	HMI_21_PROFI MP 277 10* Tou					
	< III						
	Network data						
	HMI_02_PROFIBUS.MPI/DP_CP_1 [PBM 🔯 Properties 12 Info 1 Diagnostics 📑 🖃 🗸						
	General General						
	PROFIBUS address	Interface patencied with					
	opcialing mode						
		Subnet: PROFIBUS_1 Add new subnet					
		Parameters					
		Interface type: PROFIBUS					
		Highest address: 126					
		Transmission speed: 1.5 Mbps 💌					
2.	Troubleshooting						
	• Is the papel in the c	orrect subpet?					
	Do the settings mate	ch those on the operator panel?					
	 Is there a router in the 	he network? Make sure that the power supply is switched on.					

3.2.2 Check the Transfer Settings

		Act	ion				
Extended downlo	ad						
Chack aach param	otor in the "Exter	adad dawalaa	d" diala	a			
Check each paran			u ulaiu	y.			
PG/PC interfa	ce type						
- Here you	select PROFIBU	S.					
PG/PC interfa	ce						
- Select the	e CP you are usin	ig. In this exar	nple "C	P5611".			
Connection to Here you	select the network	rk in which the	n an al i	s located	If the nanel	is connected	
directly to the	he PC, you can a	Iso use the "D	irect at	slot" sett	ing.	15 connected	
Show all comp	patible devices (o	ption)					
- Select this	s option if you do	not know the	address	s of the op	erator pane	l, for example,	or
,							
Note							
Next to the drop-de	own list box of the	e PG/PC inter	face you	u can use t	he "Configu	ure Interface" i	con
(1) to call the para	meters of the CP	used. See als	so sectio	on <u>1.2.2</u> foi	r this.		
In the second	ter sin						
Extended download to	device						×
	Configured access nod	les of "HMI_21_PROFI	BUS"				
	Device HMI 21 PROFIBUS.IE	Device type PROFINET Interface	Slot 5 1	Type PN/IE	Address 192.168.0.2	Subnet	~
	HMI_21_PROFIBUS.M	MPI/DP Interface	7 X2	PROFIBUS	10	PROFIBUS	1
							=
							-
							~
		Ту	pe of the PC	i/PC interface:	PROFIBUS		
		Ту	pe of the PC PC	i/PC interface: i/PC interface:	PROFIBUS	•	
		Ту	pe of the PC PC Connecti	i/PC interface: i/PC interface: on to subnet:	PROFIBUS CP5611 PROFIBUS_1		
		Ту	pe of the PC PC Connecti	i/PC interface: i/PC interface: on to subnet: 1st gateway:	PROFIBUS		
	Compatible devices in	Ty target subnet:	pe of the PC PC Connecti	JPC interface: JPC interface: on to subnet: 1st gateway:	PROFIBUS CP5611 PROFIBUS_1	v (v P Q P ices
	Compatible devices in Device	Ty target subnet: Device type	pe of the PC PC Connecti	i/PC interface: i/PC interface: on to subnet: 1st gateway: Add	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v D D ices
	Compatible devices in Device Accessible device PLC 1	target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	i/PC interface: i/PC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ ₽
	Compatible devices in Device Accessible device PLC_1	Ty target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	SIPC interface: SIPC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ ₽ ices
	Compatible devices in Device Accessible device PLC_1	Ty target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	i/PC interface: i/PC interface: on to subnet: 1st gateway: S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ ₽ ices
Flash LED	Compatible devices in Device Accessible device PLC_1	target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	i/PC interface: i/PC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ ₽
Flash LED	Compatible devices in Device Accessible device PLC_1	Ty target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	SIPC interface: SIPC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ 0 ices
Flash LED	Compatible devices in Device Accessible device PLC_1	Ty target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	SIPC interface: SIPC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	v ₽ ₽ ices
Flash LED	Compatible devices in Device Accessible device PLC_1	target subnet: Device type CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	i/PC interface: i/PC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	v all compatible dev Target device	rces
Flash LED Online status information ₽ Connection establis	Compatible devices in Device Accessible device PLC_1	Ty target subnet: Device type CPU 315-2 PN/DP dress 10.	pe of the PC PC Connecti Type PROFIBU PROFIBU	SIPC interface: SIPC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	w all compatible dev Target device	h
□ Flash LED Online status information P Connection establis ③ Scan completed. 2 co p ⁴ ? Retrieving device inf	Compatible devices in Device Accessible device PLC_1 hed to the device with ad compatible devices of 2 a formation	Ty target subnet: Device type CPU 315-2 PN/DP CPU 315-2 PN/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	SIPC interface: SIPC interface: on to subnet: 1st gateway: Add S 10 S 2 I I I I I I I I I I I I I	PROFIBUS PROFIBUS_1 PROFIBUS_1	v all compatible dev Target device	h
Flash LED Online status information P Connection establis Connection	Compatible devices in Device Accessible device PLC_1 hed to the device with ad compatible devices of 2 a formation	target subnet: Device type CPU 315-2 PN/DP CPU 315-2 sn/DP	pe of the PC PC Connecti Type PROFIBU PROFIBU	i/PC interface: i/PC interface: on to subnet: 1st gateway: Add S 10 S 2	PROFIBUS PROFIBUS_1 PROFIBUS_1	v all compatible dev Target device	v P C C C C C C C C C C C C C

No.	. Action					
2.	 Troubleshooting The panel is in the "Compatible devices in target subnet" table. If the panel you are using is in the list of accessible devices, check the PROFIBUS 					
	 addresses of the other devices in the list. There might be a device there with the same PROFIBUS address. Set the panel to Transfer mode. 					
	 The panel is not in the "Compatible devices in target subnet" table. Check the entry for "Type of the PG/PC interface:". Have you selected MPI here? Compare this with the transfer settings on the operator panel. PG/PC interface. Check the settings of the CP used. Refer here to chapter <u>1.2.2</u>. Enable the "Show all compatible devices" option. The panel is recognized even if a different PROFIBUS address is entered on the panel. Check the cable connection. See section <u>2.1.5</u> for this. Check the PROFIBUS settings in the HMI configuration. See section <u>3.2</u> for this. Check the PROFIBUS settings on the operator panel. See section <u>3.3</u> for this. 					

3.3 Operator Panel Settings

3.3.1 Transfer Settings in the Control Panel

No.	Action
1.	Transfer settings
	Check each setting in the "Transfer Settings" dialog.
	 Enable Transfer This option must be enabled if you want to transfer the configuration to the panel. Remote Control If you disable this option, you have to set the panel manually to Transfer Mode before you can transfer the configuration to the panel. Interface selection Specify the transfer protocol. This setting must be identical to the one in the configuration.
	Channel Directories Channel Directories PN/IE PN/IE PN/IE PN/IE PN/IE PN/IE
	USB device Properties OK Cancel
2.	Troubleshooting
	 Transfer protocol Have you selected MPI here? This setting must be identical to the transfer settings in the configuration. Properties Use the "Properties" button to call the network settings. Check the PROFIBUS parameters set there. They must match the parameters used in the HMI configuration. See section <u>3.3</u> for this.

3.3.2 Network Settings on the Operator Panel

Tabl	е	3-7

Action
PROFIBUS parameters
Check the PROFIBUS parameters. Make sure that the PROFIBUS parameters match those in the configuration.
PROFIBUS OK X
Station Parameters
Address: 10
Time-out:
Network Parameters
Transmission Rate: 1,5 Mbits\s 💌
Highest Station Address: 126
Profile Dialitaru
Troubleshooting
Check the PROFIBUS parameters entered.
 Check whether the PROFIBUS address has not already been assigned in the network. For this you remove the PROFIBUS cable and have all the accessible devices displayed (see section <u>3.1.2</u>).

4 Tips for Configuring and Commissioning

Configuration

Make a list of all the devices in the network. Note the following information for each device.

- Device designation
- PROFIBUS address and the parameters used

Compare the list with the devices in the plant. This avoids duplicate assignment of PROFIBUS addresses.

Commissioning

Before you start testing the network connection to the panel, take a good look at the network structure of the plant. If necessary, get together with a network manager before commissioning.

- Check the cable connections.
- Are there repeaters in the network?
- Are there multiple PROFIBUS networks?
- Are there already multiple devices/operator panels in the network?
- Is there a list of the devices already in the network?
- Are all the devices in the same PROFIBUS network?
- First make a direct connection with the panel and then try to establish a connection. Only when that works should you connect the panel to the network.

5 Link List

WinCC (TIA Portal)

Table 5-1

No.	Туре	Link
1.	FAQ	Which connector cables are available for connecting to SIMATIC Panels? http://support.automation.siemens.com/WW/view/en/19109408
2.	FAQ	How can you transfer a WinCC (TIA Portal) configuration to an operator panel using MPI/PROFIBUS?
3.	Application	Remote access to SIMATIC HMI Panels
		http://support.automation.siemens.com/WW/view/en/109476153
4.	Manual	WinCC Comfort / WinCC Advanced V12.0
		http://support.automation.siemens.com/WW/view/en/68075405

WinCC flexible 2008

Table 5-2

No.	Туре	Link
1.	FAQ	Which connector cables are available for connecting to SIMATIC Panels?
		http://support.automation.siemens.com/WW/view/en/19109408
2.	FAQ	How can you transfer a WinCC flexible project via MPI/PROFIBUS to a Windows-based panel?
		http://support.automation.siemens.com/WW/view/en/23802404
3.	FAQ	What settings have to be made for a PROFIBUS DP connection between a panel or a PC with WinCC flexible Runtime and an S7-200?
		http://support.automation.siemens.com/WW/view/en/19839489
4.	FAQ	How do you configure a connection between WinCC flexible Runtime (PC/Panel) and an S7-300/S7400 via PROFIBUS/MPI?
		http://support.automation.siemens.com/WW/view/en/42918861
5.	FAQ	How do you use WinCC flexible to configure communication between an operator panel and an S7 station via S7 routing?
		http://support.automation.siemens.com/WW/view/en/22257781
6.	Manual	SIMATIC HMI WinCC flexible 2008 WinCC flexible 2008 Compact / Standard / Advanced
		http://support.automation.siemens.com/WW/view/en/18796010