Configuring a Connection between WinCC flexible Runtime (PC/Panel) and a SIMATIC S7-300/S7400 via PROFIBUS

WinCC flexible

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Question

How do you configure a connection between WinCC flexible Runtime (PC/Panel) and a SIMATIC S7-300/S7400 via PROFIBUS?

Answer

Follow the instructions and notes listed in this document for a detailed answer to the above question.

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1 Introduction

The FAQ describes how to establish a connection between a panel or a PC Runtime and an S7-300 or S7-400 controller via MPI/PROFIBUS DP.

Note Information on connecting PC Runtime or panels to an S7-300/400 via Ethernet is available in Entry ID: <u>24109937</u>.

2 Preliminary Considerations

2.1 When should you use an HMI station and when a PC station?

HMI Station

You should use an HMI station if you want to connect the PC Runtime or an operator panel to an S7 controller and do not wish to use any software PLC.

If, for example, you want to use WinAC or OPC, you must use a PC station, because an HMI station does not support this.

PC Station

You should use a PC station if another application on the same PC is using the same communication channel. If, for example, you are working with WinAC, you must use a PC station.

2.2 Which PROFIBUS CP should you select?

PC Runtime

The following communication processors are released and should be used for connecting a PC Runtime to a controller:

- CP5711
- CP 5512
- CP 5611 A2
- CP 5621
- CP 5613 A2
- CP 5614 A2
- Exception: for Microbox 420/427 and Panel PC 477/677 via the internal MPI/DP interface.

Panels

The "IF1B MPI/DP" CP is to be used for all connections of panels to a controller. The "IF1B MPI/DP" CP is released only for connections with panels.

Note The communication driver for communication on SIMATIC S7-200 and on SIMATIC S7-300/400 is supplied together with WinCC flexible and is installed automatically.

Special blocks for the connection are not necessary in the controller.

Information on connecting S7-200 and WinCC flexible is available in Entry ID: <u>28263099</u>.

3 Connecting a Panel via PROFIBUS

3.1 Requirements

Software

- WinCC flexible compact, standard or advanced
- STEP 7 as from V5.3
- STEP 7 project with PROFIBUS connection

Note The SIMATIC software components released for SIMATIC WinCC flexible are given in Entry ID <u>22635649</u>.

Operator Panels

- KTP600 Basic color DP¹
- KTP1000 Basic color DP¹
- OP73²
- OP77A, OP77B³
- TP170A, TP177A³
- TP170B, TP177B³
- TP177B 4" Widescreen ¹
- OP170B, OP177B³
- Mobile Panel 170, Mobile Panel 177 DP³
- Mobile Panel 277²
- TP270, TP277²
- OP270, OP277²
- MP177¹
- MP270B, MP277²
- MP370, MP377²

¹ Configuration possible as from WinCC flexible 2008

² Configuration possible as from WinCC flexible 2005 SP1

³ Configuration possible as from WinCC flexible 2005

3.2 Configuration in STEP 7 and WinCC flexible as well as on the panel

Proceed as follows to establish a connection between an S7-300/400 and a panel.



No.	Procedure		
1.	Configuration in STEP 7		
	Open a STEP 7 project with PROFIBUS connection or create a new project.		
2.	Add and configure a SIMATIC HMI station		
	Add a SIMATIC HMI station via "Insert > Station > SIMATIC HMI Station".		
	 In the dialog that opens, you select the relevant HMI operator panel - this case an MP277 10" Touch. 		
	Figure 3-1		
	SIMATIC Manager - [S7300_Profibus_WinCCflex C:\Program Files\Siemens\Step7\s7proj\S7_Pro1]		
	ST300_Profibus_WinCCflex SIMATIC 300-Station PROFIBUS(1)		
	E I SIMATIC 300-Station		
	Properties - WinCC flexible RT		
	General Device type		
	Select device by name and version		
	Mobile Panel A		
	⊕-Panels		
	States Team		
	⊡-270 ([#] Tauch		
	- MP 270 10" Touch		
	MP 277 10" Key		
	± 370		
	SIMATIC C7 Sinumerik		
	Device version		
	Additional operating devices		
	OK Cancel Help		
1			

No.	Procedure
3.	 Open the HMI configuration Mark the HMI station in the left project window. Open the configuration of the HMI station by double-clicking on "Configuration". The Hardware Configuration of the HMI station opens. Double-click on "IF1B MPI/DP" on the mounting channel (here slot 4). Network "IF1B MPI/DP" with the PROFIBUS interface type of the S7 controller by configuring with the IP address and appropriate subnetwork address.
	Figure 3-2
	 Save and compile the configuration. Close the HMI station's hardware configuration and return to the SIMATIC Manager. Note If you set a baud rate of 1.5 Mbaud for OP 73 or OP 77A, the highest station address must be less than or equal to 63. If you connect a TP 170A to a SIMATIC S7 via PROFIBUS DP with a baud rate of 1.5 Mbaud, the highest station address (HSA) values must be less than or equal to 63.

No.	Procedure
4.	 Set the interface in WinCC flexible In the SIMATIC Manager, navigate via the SIMATIC HMI station to "WinCC flexible RT > Communication > Connections". In the right project window, double-click on "Connections". WinCC flexible ES opens. The PROFIBUS connection configured in the Hardware Configuration is transferred automatically to WinCC flexible ES if a SIMATIC HMI station has been configured. Activate the connection by the setting "On" for the "Active" parameter.
	Figure 3-3 Image: Ima
5.	Load the WinCC flexible project into the operator panel.

How many simultaneously active controller connections can be configured for a panel is described in Entry ID <u>15363798</u>.

Note

How any number of controllers can be addressed one after the other is described in Entry ID $\underline{35508221}$.

4 Connecting a WinCC flexible Runtime to SIMATIC S7-300/400 Without Station Configuration Editor

4.1 Requirements

- WinCC flexible Advanced
- STEP 7 as from V5.3
- PC with PROFIBUS CP (in the example: CP5512)
- STEP 7 project with PROFIBUS connection

4.2 Connecting an HMI station

Proceed as follows to establish a connection between an S7-300/400 and a WinCC flexible PC Runtime (HMI station).

Table 4-1

No.	Procedure
1.	Configuration in STEP 7Open a STEP 7 project with PROFIBUS connection or create a new project.
2.	 SIMATIC HMI station Add a SIMATIC HMI station via "Insert > Station > SIMATIC HMI Station". In the dialog that opens you select the SIMATIC HMI station. Figure 4-1

Note The SIMATIC software components released for SIMATIC WinCC flexible are given in Entry ID <u>22635649</u>.

No.	Procedure
	SIMATIC Manager _ [\$7300_Profibus_WinCcflex ~ C:VProg F to Edit Treet RC Vew Options Window Help Statistic 305 station Statistic 305 station ST software ST software ST software ST software Statistic 5-Satistic Statistic 5-Satistic S
	General Device type Select device by name and version Multiple Danel Multipl
	Select "WinCC flexible Runtime" in the dialog that opens.
3.	 Open the HMI station configuration. Mark the HMI station. Open the configuration of the HMI station by double-clicking on "Configuration".
4.	 Incorporate "CP5512". Insert the "CP5512" module from the hardware catalog into any available slot of the HMI station's rack. The "CP5512" module is located in the hardware catalog under "SIMATIC HMI Station > CP PROFIBUS > CP5512".
5.	 Object properties "CP5512". Define the parameters for the interface under "General > Interface > Properties > Parameters".0 Network the CP5512 with the "PROFIBUS" network of the S7-300/S7-400 controller. Under "Address" you select a valid PROFIBUS address for the HMI station. Acknowledge the settings with the "OK" button. Save and compile the PC station via "Station > Save and compile". Close the Hardware Configuration of the HMI station.
	Figure 4-2

Properties - PROFIBUS interface CP 5512 (R0/S2) General Parameters Address: Highest address: 126 Transmission rate: 1.5 Mbps Subnet: not networked PROFIBUS(1) 1.5 Mbps	New Properties Dejete
OKCar	ncel Help
 Setting the PG/PC interface on the Runtime PC Open the PG/PC interface via your Runtime computer's Co Under "Interface Parameter Assignment Used" use the sett (STEP 7)> CP5512 (PROFIBUS)". Open the properties of the interface parameterization selec Under "Address", you set the same PROFIBUS address as CP in the Hardware Configuration of the HMI station. Check the network parameters and change them if necessar must match across stations. 	ntrol Panel. ing "S7ONLINE ted. you assigned to the ary. These values
	Properties - PROFIBUS Interface CP 3512 (k0/52) General Parameters Address: Highest address: 126 Transmission rate: 1.5 Mbps Subnet: Image: not networked Image: not net

No.	Procedure
	Set PG/PC Interface
	Access Path LLDP
	Access Point of the Application:
	S70NLINE (STEP 7)> CP5512(PROFIBUS)
	(Standard for STEP 7)
	Interface Parameter Assignment Used:
	CP5512(PR0FIBUS)
	ISO Ind. Ethernet -> Marvell Yukon 🗸 Delete
	(Parameter assignment of your communications processor CP5512 for a PROFIBUS network) Interfaces Add/Remove: Sele <u>c</u> t
	OK Cancel Help
	Note
	You can select a different access point instead of "S7ONLINE"; however, the access point selected must be specified in WinCC flexible ES under "Communication > Connection".
7.	Set the interface in WinCC flexible
	 In the SIMATIC Manager, navigate via the SIMATIC HMI station to "WinCC flexible RT > Communication > Connections".
	• In the right project window, double-click on "Connections".
	WinCC flexible ES opens.
	 The PROFIBUS connection configured in the hardware configuration is transferred automatically to WinCC flexible ES.
	• Activate the connection by the setting "On" for the "Active" parameter.
	Figure 4-4

				Procedu	ire			
Bild_1 "Con	inections							
							CONNECLI	ION
Name	Active	ommunication driver	Station	Partner	Node	Online	Comment	
Verbindung_1	On 🗾 🖬	MATIC 57 300/400	 \\$7300_Profibus 	CPU 317-2PN/DP	MPI/DP	• On	•	
Parameters Are	a pointer							
	CP 5512	~						
Type	Baudirate	MI device			Network		PLC	device
O TTY	1500000 🗸			Profile DP	~		Address	
O R5232	Address 4	_		Highest station	address (HSA)		Expansion slot	
© R5485	Access point 57	ONLINE			126		Rack	
 Simatic 	Only master on the	he bus		Number of mast	ers 1		Cyclic operation	
	Verme Verbindung_1	Name Active Vetindung_1 0 Vetindung_1 0 Parameters Arespointer WerCe flexible Runtme Interface Umme Interface Umme Interface Type Baud rate Type Baud rate Type Address Address Acces point, 57 O Smatic O rate state of the state	Name Active rommunication driver Verbindung_1 Cn BMATC 57 300/400 Parameters Interface Parameters Interface UVECC flexible Runtime Interface Display IP 5512 Type Baud rate Type Baud rate UVEC Interface UP 5512 INT Staddrate Interface Open Access point Stroke Crew sport	Manne Active Gammunication driver Station Vetindung_1 Cn RMATIC 57 300/400 \$57300_Fird/Bus Parameters Arespointer WerCe flexible Runtime Interface Image: Status Image: Status Image: S	Name Active communication driver Station Partner Vetindurg_1 0 MATIC 57 300/400 \$57300_Profess CPU 317-25N/DP Parameter Area pointer Marine Image: Station of the station of t	Name Active sammunication driver Station Partner Node vetindung_1 on HWTC 57 300/400 \$57300_Profibus CPU 317-294/UP Per[CP Parameter Area pointer Image: Station address of the same transformed and	Name Active Gommunication driver Station Partner Node Online Veterinding 1 0 N ST300_Profbus CPU 317.5PN(CP MPR(CP On Parameter Acespointer Acespointer Acespointer Acespointer Veterinding 1 CPU 317.5PN(CP MPR(CP On On Parameter Acespointer Acespointer Acespointer Veterinding 2 CP 5512 Veterinding 2 Acespointer Type Baud rate Hill device Highest station address (HSA) Image: CP 5512 0 Smate Cloque master on the bus Image: CP 5512 Image: CP 5512 Image: CP 5512	CONNECTION Veterinding 1 Command Veterinding 1 On WHITCS 7 300/400 ST300_Probus © CPU 317-254([CP © MPI (CP © On © Parameter Ares pointer Station Station Parameter Ares pointer Station Parameter Viscof Roodle Runtime Interface Point Point Address Point Viscof Roodle Runtime Interface Point Point Point Point Point Viscof Roodle Runtime Interface Point Point Point Point Point Viscof Roodle Runtime Interface Interface Point Point Point Point Station Interface Interface Interface Interface Point Point Or Try Boud rate Interface Inter

4.3 Connecting a PC station

Proceed as follows to establish a connection between an S7-300/400 and a WinCC flexible PC Runtime (PC station).

No.			Procedure	
1.		on in STEP 7	ct with PROFIBUS connection or create a new project	
2.	Add a SIMA Add a SIMA Add a S In the c Figure 4-5 SIMATIC M	ATIC PC station SIMATIC PC st dialog that oper	ation via "Insert > Station > SIMATIC PC Station". Is you select the SIMATIC PC station. D_Profibus_WinCCflex C:\Prog	
	SIN	Station Subnet Program	1 SIMATIC 400 Station 2 SIMATIC 300 Station 3 SIMATIC H Station 4 SIMATIC PC Station	
		S7 Software	5 SIMATIC HMI Station	

Table 4	- 2
---------	------------

No.	Procedure
3.	Configure the PC station
	 Mark the PC station. Open the configuration of the PC station by double-clicking on "Configuration". The Hardware Configuration of the PC station opens. Open the Properties by double-clicking on the rack's "upper" edge. In the rack's Properties, in the "Configuration" tab, you deactivate the check box "S7RTM is installed". (This is only selected if the components are set using the Station Configuration Editor.)
	Click "OK" to close the dialog box.
	Figure 4-6
	We HW Config - [SIMATIC PC-Station(1) (Configuration) S7300_Profibus_WinCCflex] Station Edit Insert PLC View Options Window Help
	D 😅 💱 📓 🖏 🥌 🖻 🛍 🏙 🏙 🕕 🖽 😫 校
	Image: CP 5512 Image
	8 9 9 Compatibility: 10 S7RTM is installed for example with SIMATIC NET CD 7/2001 or later) 11 Memory location of the configuration file:
	UK Cancel Help
	Note The check box is checked by default in a PC station, so it has to be changed.
4.	Insert "WinCC flexible RT"
	 Insert the "WinCC flexible RT" module from the hardware catalog into any available slot of the PC station's rack. The "WinCC flexible RT" module is located in the hardware catalog under
	"SIMATIC PC Station > HMI > WinCC flexible RT".
5.	 Incorporate "CP5512". Insert the "CP5512" module from the hardware catalog into any available slot of
	the PC station's rack.

No.	Procedure
	 The "CP5512" module is located in the hardware catalog under "SIMATIC PC Station > CP PROFIBUS > CP5512".
6.	 Object properties "CP5512". Define the parameters for the interface under "General > Interface > Properties> Parameters". Network the CP5512 with the "PROFIBUS" network of the S7-300/S7-400 controller. Under "Address" you select a valid PROFIBUS address for the PC station.
	Properties - PROFIBUS interface CP 5512 (R0/S2) General Parameters Address: Image: Comparison of the second sec
	OK Cancel Help

No.	Procedure
7.	 Setting the PG/PC interface on the Runtime PC Open the PG/PC interface via your Runtime computer's Control Panel. Under "Interface Parameter Assignment Used" use the setting "S7ONLINE (STEP 7)> CP5512 (PROFIBUS)". Open the properties of the interface parameterization selected. Under "Address", you set the same PROFIBUS address as you assigned to the CP in the Hardware Configuration of the PC station. Check the network parameters and change them if necessary. These values must match across stations.
	Figure 4-8
	Set PG/PC Interface
	Access Path LLDP
	Access Point of the Application: S70NLINE (STEP 7)> CP5512(PR0FIBUS)
	(Standard for STEP 7)
	CP5512(PROFIBUS)
	CP5512(MPI) CP5512(PPI) CP5512(PROFIBUS) Copy Copy Dejete
	(Parameter assignment of your communications processor CP5512 for a PROFIBUS network)
	Add/Remove: Sele <u>c</u> t
	OK Cancel Help
	Note You can select a different access point instead of "S7ONLINE"; however, the access point selected must be specified in WinCC flexible ES under "Communication > Connection".
8.	Set the interface in WinCC flexible
	 In the SIMATIC Manager, navigate via the SIMATIC PC station to "WinCC flexible RT > Communication > Connections".
	 In the right project window, double-click on "Connections". WinCC flexible ES opens.
	 The PROFIBUS connection configured in the hardware configuration is transferred automatically to WinCC flexible ES. Activate the connection by the setting "On" for the "Active" parameter.

••					Procedu	ure			
	Bild_1 _Stor	inections							90
								CONNE	CLION
	Name Verbindung_1	Active On	Tommunication driver	Station Station Israol_Profibus	Partner CPU 317-2PN/DP	Node MPJ/DP	Online On	Comment	
	Parameters Are	a pointer							
	WinCC flexible	Runtime						s I	Station
		CP 5512						l	
	Type TYY R5232 R5425	Baud rate 1500000 V Address Access point	HHII device		Profile DP Highest station	Network v address (HSA)		Address Expension slot Rack	PLC device

5 Connecting a WinCC flexible Runtime to SIMATIC S7-300/400 With Station Configuration Editor

5.1 Requirements

- WinCC flexible Advanced
- STEP 7 as from V5.3
- PC with PROFIBUS CP (in the example: CP5512)
- STEP 7 project with PROFIBUS connection
- SIMATIC NET PC software as from 11/2003

5.2 Connecting an HMI station

Proceed as follows to establish a connection between an S7-300/400 and a WinCC flexible PC Runtime (HMI station) using the Station Configuration Editor.

Table 5-1

No.	Procedure
1.	Configuration in STEP 7
	• Open a STEP 7 project with PROFIBUS connection or create a new project.

Note The SIMATIC software components released for SIMATIC WinCC flexible are given in Entry ID <u>22635649</u>.



No.	Procedure
	SIMATIC HMI Station
	General Settings Configuration
	Construction
	Compatibility: ISZBTM is installed (for example with SIMATIC NET CD 7/2001 or later)
	Charge location of the configuration file:
	VXDBs/HmiS 2 vdb Browse.
	OK Cancel Help
1	
4.	Insert the "WinCC flexible RT" module from the hardware catalog into any
	available slot of the PC station's rack.
	The "WinCC flexible RT" module is located in the hardware catalog under "ON MATIO DO Obsider
-	"SIMATIC PC Station > HIVI > WINCC TIEXIDIE RT".
5.	Incorporate CP3512 module from the hardware catalog into any available slot of
	the HMI station's rack.
	The "CP5512" module is located in the hardware catalog under "SIMATIC HMI
^	Station > CP PROFIBUS > CP5512".
6.	Object properties "CP5512".
	Properties> Parameters".
	Network the CP5512 with the "PROFIBUS" network of the S7-300/S7-400 controller.
	Under "Address" you select a valid PROFIBUS address for the HMI station.
	Acknowledge the settings with the "OK" button.
	• Save and compile the PC station via "Station > Save and compile".
	Close the Hardware Configuration of the HMI station.

No.	Procedure					
	Properties - PROFIBUS interface CP 5512 (R0/S2)					
	General Parameters					
	Address:	1				
	Highest address: 126					
	Transmission rate: 1.5 Mbps					
	Subnet					
	not networked	<u>N</u> ew				
	PROFIBUS(1) 1.5 Mbps	Properties				
		Delete				
	1	Dejete				
		Cancel Help				
7.	Station Configuration Editor					
	Start the "Station Configuration Editor" via the icon in the	taskbar.				
	DE 🔇 😋 🗑 🛃 🔡 👯 >> 🕮 15:46					
	Assign a station name by clicking on the "Station Name .	" button.				
	Here you enter the name of the HMI station. (This must be computer name.)	be identical to the				
	computer name.) There are now two options for inserting the components in the Station Configuration					
	Editor.					
	 You insert the separate components via the "Add" butto You insert the components via the "Import Station " butto 	on. ton				
	Re Point 1: Insert components separately					
	The "CP5512" and "WinCC flexible RT" slots in the Station C	onfiguration				
	Editor must match the index of the Hardware Configuration.	enngaration				
	Mark Slot 2 of the Station Configuration Editor.					
	 Click on the "Add" button The "Add components" window opens. From the list unde "CP5512" and confirm the input with "OK". 	er "Type" you select				
	Follow the same procedure for Slot 3.					
	Here, you select "WinCC flexible RT" from the list under "Type	e".				
	Figure 5-4					

No.	Procedure					
	Station Configuration Editor - [ONLINE]					
	Components Diagnostics Configuration Info					
	Station: PC1 Mode: RUN_P					
	Index Name Type Ring Status Run/Stop Conn					
	2 IF CP 5512 CP 5512 S					
	4					
	6					
	8					
	10					
	13 14					
	15					
	I 17					
	OK Help					
8.	Import components					
	Re Point 2:					
	Note					
	An "XDB" file is generated by saving and compiling in the HMI station's hardware					
	You can specify the storage path of this file.					
	For this you open the Hivil station's configuration One of the Depression builded by the station set the set of					
	Open the Properties by double-clicking on the rack's upper edge.					
	Open the "Configuration" folder.					
	 Order Memory location of the configuration file you can specify the path and name of the "XDB" file 					
	Figure 5-5					
	WHW Canfin (SWATIC HALStation/2) (Configuration) - \$7300 Deafbur WinCffley]					
	W Config - [SIMATIC HMI-Station(2) (Configuration) S7300_Profibus_WinCCflex]					
	😐 (0) HMI					
	1					
	2 HE CP 5512					
	5 SIMATIC HMI Station					
	6 7 General Settings Configuration					
	Compatibility:					
	✓ [57] HIM is installed (for example with SIMATIU NET CD 772001 or later)					
	Storage location of the configuration file:					
	.\XDBs\HmiS_2.xdb					
	Open the Station Configuration Editor.					
	Click the "Import Station" button.					

No.	Procedure	9	
	Acknowledge the subsequent message with "OK".		
	 The "Import XDB file" window opens. Select the appropriate "subdirectory" that you used previously for the "XDB" file in the HMI station's Hardware Configuration and open the corresponding *.xdb file. 		
	 Acknowledge the subsequent message with 	th "OK".	
	• The configuration is loaded automatically.		
9.	Setting the PG/PC interface on the Runtime PC	;	
	 Open the PG/PC interface via your Runtim Use the setting "PC internal (local)" under 'Used". 	e computer's Control Panel. "Interface Parameter Assignment	
	Figure 5-6		
	Set PG/PC Interface		
	Access Path LLDP		
	Access Point of the Application:		
	S70NLINE (STEP 7)> PC internal (loca	al) 🔽	
	(Standard for STEP 7)		
	Interface Parameter Assignment Used:		
	PC internal (local)	Properties	
	ISO Ind. Ethernet -> VMware Virtua		
	E PC internal (local)	Сору	
		Delete	
	<		
	(Communication with SIMATIC components in this PG/PC)		
	cinterfaces		
	Add/hemove:		
		Cancel Help	
10.	Set the interface in WinCC flexible		
	 In the SIMATIC Manager, navigate via the flexible RT > Communication > Connection 	SIMATIC HMI station to "WinCC	
	 In the right project window, double-click on 	"Connections". WinCC flexible ES	
	opens.		
	 The PROFIBUS connection configured in t transferred automatically to WinCC flexible 	he hardware configuration is	
	Activate the connection by the setting "On"	for the "Active" parameter.	
	Figure 5-7		

No.	Procedure
	Stonnections Stonnection Active CONNECTIONS Nume Active Communication drive: Station Partner Node Dalane Comment Connect Con Connect Connect Con Con Connect Con
	Parameters Ares pointer
	Station manager PLC device Address 2 Expansion faile 2 Rack 0 C/Cyck operation C/Cyck operation
	 Then complete your configuration in WinCC flexible ES (create tags, configure pictures,). Start the WinCC flexible RT.

5.3 Connecting a PC station

Proceed as follows to establish a connection between an S7-300/400 and a WinCC flexible PC Runtime (PC station) using the Station Configuration Editor.

Table 8	5-2
No.	Procedure
1.	 Configuration in STEP 7 Open a STEP 7 project with PROFIBUS connection or create a new project.
2.	Add a SIMATIC PC station Add a SIMATIC PC station via "Insert > Station > SIMATIC PC Station". In the dialog that opens you select the SIMATIC PC station. Figure 5-8 SIMATIC Manager - [S7300_Profibus_WinCCflex C:\Program File Edit Insert PLC View Options Window Help File Edit Insert PLC View Options Window Help Subnet Frogram Subnet Software S7 Software S7 Software
3.	 Open the PC station configuration Mark the PC station. Open the configuration of the PC station by double-clicking on "Configuration". The Hardware Configuration of the PC station opens.

No.	Procedure
4.	 Incorporate "CP5512". Insert the "CP5512" module from the hardware catalog into any available slot of the PC station's rack. The "CP5512" module is located in the hardware catalog under "SIMATIC PC Station > CP PROFIBUS > CP5512".
5.	 Insert "WinCC flexible RT" Insert the "WinCC flexible RT" module from the hardware catalog into any available slot of the PC station's rack. The "WinCC flexible RT" module is located in the hardware catalog under "SIMATIC PC Station > HMI > WinCC flexible RT".
6.	Object properties "CP5512". • Define the parameters for the interface under "General > Interface > Properties> Parameters". • Network the CP5512 with the "PROFIBUS" network of the S7-300/400 controller. • Under "Address" you select a valid PROFIBUS address for the PC station. Figure 5-9 Properties - PROFIBUS interface CP 5512 (R0/S2) General Parameters Address: Image: Address: 126 Transmission rate: 1.5 Mbps Properties Delete
	OKCancelHelp

No.	Procedure
7.	 Station Configuration Editor Start the "Station Configuration Editor" via the icon in the taskbar.
	 Assign a station name by clicking on the "Station Name" button.
	 Here you enter the name of the PC station. (This must be identical to the computer name)
	There are now two options for inserting the components in the Station Configuration Editor.
	 You insert the separate components via the "Add" button. You insert the components via the "Import Station" button.
	Re Point 1: Insert components separately
	The "CP5512" and "WinCC flexible RT" slots in the Station Configuration
	Editor must match the index of the Hardware Configuration.
	 Mark Slot 2 of the Station Configuration Editor. Click the "Add" button.
	The "Add components" window then opens. From the list under "Type" you
	select "CP5512" and confirm the input with "OK". Follow the same procedure for Slot 3.
	Here, you select "WinCC flexible RT" from the list under "Type".
	Figure 5-10
	Station Configuration Editor - FONLINE
	Components Diagnostics Configuration Info
	Station: PC1 Mode: RUN_P
	Index Name Type Ring Status Run/Stop Conn
	2 1 CP 5512 CP
	7 8
	9 10
	14 15
	16
	New diagnostic entry arrived
	Add Edit Delete Ring DN
	Station Name Import Station Disable Station
	<u>OK</u> Help

No.	Procedure	
8.	 Import components Re Point 2: Note An "XDB" file is generated by saving and compiling in the PC configuration. You can specify the storage path of this file. For this you open the PC station's configuration. Open the Properties by double-clicking on the rack's "up Open the "Configuration" folder. Under "Memory location of the configuration file" you specified the "XDB" file. 	Sstation's hardware oper" edge. ecify the path and name
	Figure 5-11	
	Image: HW Config - [SIMATIC PC-Station(1) (Configuration) S7300_Pro Image: Station Edit Insert PLC View Options Window Help Image: Station Edit Insert PLC View Options Window Help Image: Station Edit Insert PLC View Options Window Help	ofibus_WinCCflex]
	0) PC 1 2 Image: CP 5512 3 WinCC flexible RT 4 5 Properties - SIMATIC PC Station 6 7 General Settings Configuration 8 Compatibility: 10 Image: Configuration Relation 11 Image: Configuration Relation Rel	1 or later) Browse
	ОК	Cancel Help
	 Open the Station Configuration Editor. Click the "Import Station" button. Acknowledge the subsequent message with "OK". The "Import XDB file" window opens. Select the appropryou used previously for the "XDB" file in the HMI station" Configuration and open the corresponding *.xdb file. Acknowledge the subsequent message with "OK". The configuration is loaded automatically. 	iate "subdirectory" that 's Hardware

No.	Procedure	9
9.	 Setting the PG/PC interface on the Runtime PC Open the PG/PC interface via your Runtim Use the setting "PC internal (local)" under 'Used". 	c e computer's Control Panel. "Interface Parameter Assignment
	Figure 5-12	
	Set PG/PC Interface	
	Access Path LLDP	
	Access Point of the Application:	
	S70NLINE (STEP 7)> PC internal (loca	el) 💌
	(Standard for STEP 7) Interface Parameter Assignment Used:	
	PC internal (local)	Properties
	ISO Ind. Ethernet -> VMware Virtua A	Conv
		Delete
	(Communication with SIMATIC components in this PG/PC)	
	C Interfaces	
	Add/Remove:	Sele <u>c</u> t
	ОК	Cancel Help

No.	Procedure		
10.	 Set the interface in WinCC flexible In the SIMATIC Manager, navigate via the SIMATIC PC station to "WinCC flexible RT > Communication > Connections". In the right project window, double-click on "Connections". WinCC flexible ES opens. The PROFIBUS connection configured in the hardware configuration is transferred automatically to WinCC flexible ES. Activate the connection by the setting "On" for the "Active" parameter. 		
	Figure 5-13		
	Premeters Presederation Station Station Station Station Station Address Expansion skt Expansion skt Back Image: Cyclic operation Then complete your configuration in WinCC flexible ES (create tags, configure pictures).		