Training document for the company-wide automation solution Totally Integrated Automation (T I A)

MODULE A2

Installation of STEP 7 V5.x /

Authorization Process

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The following symbols stand for the specified modules:



Information



Installation



Notes



1. FORWARD

SIEMENS



The module A2 is assigned content wise to the **Basics of STEP 7- Programming**.

Learning goal:

In this module, the reader should be shown how the software STEP 7 V 5.x is installed and how the interface for the SIMATIC S7-300 is set.

- Installation of the software
- Handling of the authorization
- Setting of the program interface

Requirements:

For the successful use of this module, the following knowledge is assumed:

Knowledge in the use of Windows 95/98/2000/ME/NT4.0

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Required hardware and software

- 1 PC, Operating system Windows 95/98/2000/ME/NT4.0 with
 - Minimal: 133MHz and 64MB RAM, approx. 65 MB free hard disk space
 - Optimal: 500MHz and 128MB RAM, approx. 65 MB free hard disk space
- 2 Software STEP 7 V 5.x
- 3 MPI- Interface for the PC (e.g. PC- Adapter)
- 4 PLC SIMATIC S7-300

Example configuration:

- Power supply: PS 307 2A
- CPU: CPU 314
- Digital inputs: DI 16x DC24V
- Digital outputs: DO 16x DC24V / 0.5 A



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2. NOTES FOR THE OPERATION OF STEP 7 V5.X

The software STEP 7 is the program tool for the automation systems

- SIMATIC S7-300
- SIMATIC S7-400
- SIMATIC WinAC

With STEP 7, the following functions can be used for the automation construction:

- Configuring and parameterization of hardware
- Programming
- Debug, commissioning, and service
- Documentation, archiving
- Operation-/Diagnostic functions

All functions are supported and described through elaborate online help documentation.

Also contained as options by STEP7 V 5.x:

- Acrobat Reader V3.01 in order to be able to read the provided handbooks.
- NCM S7 PROFIBUS V5.1 incl SP3
- NCM S7 Ind. Ethernet V5.1 incl SP3
- AuthorsW V2.2

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3. INSTALLATION OF THE SOFTWARE STEP 7 V 5.X



STEP 7 has three different versions:

- **STEP 7 Professional version**, which can use all applications provided by STEP 7(S7- GRAPH or S7- PLCSIM). This software package must be authorized.
- **STEP 7 Software for Students** contains the option package S7- PLCSIM. This software package must be authorized and then it can be used for 120 days.
- **STEP 7 Mini** is a restricted version that does not need to be authorized, however, no further option packages can be used (e.g. S7- PLCSIM or S7- GRAPH).

STEP 7 comes on a CD-ROM, which contains the software. With the CD-ROM comes a floppy disk, which contains the authorization of the software. After the data from this disk is transferred to the PC, STEP 7 professional version can be used by the operator.

This authorization disk can also be used on another PC or can be copied in order to authorize the software.

To install STEP 7, please proceed to the following steps.

- 1. Place the STEP 7 CD in the CD- ROM drive.
- 2. The setup program should start automatically. If not, it can be started by double clicking on the **setup.exe** executable file on the CD. The setup program will guide you through the whole installation process of the STEP 7 software.
- 3. In order to use the professional version of STEP 7, the software must be authorized on your computer. The files from the authorization disk must be transferred onto the PC. This process will execute at the end of the software installation. If you place the authorization disk in the floppy drive at the beginning of the installation, the authorization will automatically transfer onto your computer.

Place the authorization diskette in the floppy drive now during the setup start.

 When setup runs, you are first asked in which language to continue setup in. Choose the desired language and accept it Next (→ Next).

STEP 7 Professional Setur SIMATIC Software	 Setup language Setupsprache: Deutsch Setup language: Englishi Langue d'installation: Erançais Idioma de installación: Español Lingua di installazione: Italiano 	Cancel		
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5. After language selection, the optional software packages are chosen. For the execution of all modules of this training document, the option **NCM S7-PROFIBUS** is needed (\rightarrow Next).

STEP 7 Professional Setup: Components					
	Programs to be installed.				
SIMATIC Software	✓ STEP 7 V5.1 incl. SP4 □ NCM S7 - Ind. Ethernet V5.1 incl. SP3 ✓ NCM S7 - PROFIBUS V5.1 incl. SP3 □ S7-SCL V5.1 incl. SP3 □ S7-GRAPH V5.1 incl. SP1 □ S7-PLCSIM V5.0 incl. SP1	220 MB 20 MB 29 MB 40 MB 40 MB 20 MB			
	Description SIMATIC AuthorsW V2.4.2. Manage Authoriz Select the target directory for this component.	ations. <u>R</u> eadme			
	Target directory: c:\siemens Estimated installation time: 00:25 (hh:mm)	Browse			
	< <u>B</u> ack <u>N</u> ext>	Cancel			

6. Then a window is displayed, that shows you which of the desired components is being currently installed. The installation can be **Abort**ed if necessary (\rightarrow Abort).

STEP 7 Professional Setup: Installation	
STEP 7 V5.1	Installing
STEP 7 V5.1 SP4	
NCM S7 - PROFIBUS_V5.1 incl. SP3	
S7-SCL V5.1	
S7-SCL V5.1 SP3	
AuthorsW V2.4.2	
· · · · · · · · · · · · · · · · · · ·	
	Abort

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Finally you come to the first page of the STEP 7- Setup with a warning about copyright(\rightarrow Next).



8. Now you can see the **Readme** if desired (\rightarrow Next).

STEP 7 Professional Set	up: Readme
SIMATIC Software	The readme file contains important information on installing and using the software. We recommend that you read this file before installing the software. Do you want to read the readme file now?
	< Back Next > Cancel

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9. The Hard- and Software requirements are given in the following window. You can find **Internet Explorer V4.01 SP1** on the included STEP 7 CD in case it is needed (\rightarrow Next).

STEP 7 Professional Setu	ip: Requirements	×
STEP 7 Professional Setu SIMATIC Software	p: Requirements Note: The following requirements must be fulfilled for the successful installation and operation of STEP 7 Professional: Internet Explorer V4.01 SP1 (or higher) should be installed. Work Memory >= 32 Mbytes Disk Space > 200 Mbytes	×
	Note: The value for hard disk space refers to the net volume for a standard installation in one language for an optimally configured computer. The total amount of space actually required can be significantly higher, depending on the operating system () (<u>Back</u> <u>Next</u>) Cance	▼ ▼

10. Now read the license agreement and accept it with **Yes** (\rightarrow Yes).

S 1	TEP 7 P	rofessional Setup: Software License Agreement 🛛 🔀
	Ð	Please read the following License Agreement. Press the PAGE DOWN key to see the rest of the agreement.
	1.	One Off Licence
	1.1 Confirma data me purchas together	The Customer is supplied with the software products detailed in the ation of Order/Software Product List (hereinafter referred to as "Software") on the dium indicated therein. The Documentation relating to the Software must be ed separately, unless the Confirmation of Order states that it shall be supplied with the Software.
	1.2 unlimited each So Licence at one ti licence,	The Customer is granted the non-exclusive right to use the Software for an d period of time on the Hardware indicated in the Confirmation of Order, although ftware supplied to the Customer and - if the Customer has been granted a Copy - each copy made by the Customer shall only be used on one item of Hardware me. Provided that the Customer is not merely granted a production or run time he shall be entitled to use the Software for a limited time on the appropriate
	Do you a Professio	gree with all of the conditions in the license agreement provided? To install STEP 7 inal, you must agree to the conditions. If you select "No," Setup will be closed.
		< <u>B</u> ack <u>Y</u> es <u>N</u> o

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11. You must register and enter the ID number of your software license. You can find the ID number on the included software certificate. This number begins with ID: KHE... (→ Name → Company → Identnr. ID: KHE → Next).

STEP 7 Professional Se	tup: User Reg Enter your nai valid ID numb Certificate.	<mark>tistration</mark> me, company, and ID number. You ca er for your product on the Software Pr	n find the oduct
Software	N <u>a</u> me: Co <u>m</u> pany: ID number: ID:KHE	RD2671	
		< Back Next >	Cancel

12. Here the target folder on the desired hard disk partition is chosen (\rightarrow Next).

STEP 7 Professional Set	up: Select Program Folder	×
SIMATIC Software	Click "Next" to install STEP 7 Professional in the destination folder displayed. Click "Browse" to select a different destination folder. Use "Cancel" to exit Setup. Destination Folder C:\Siemens\Step7	1
	< <u>B</u> ack <u>Next</u> > Cancel	

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13. The Standard setup type is recommended because it is the least costly and is also installed with examples (\rightarrow Next).

STEP 7 Professional Set	TEP 7 Professional Setup: Setup Type						
	Select the required setup type.						
SIMATIC Software	• <u>Standard</u>	All components of STEP 7 Professional will be installed on your computer. You can change the language in the next dialog box.					
	O <u>M</u> inimum	A compact version of STEP 7 Professional with the minimum number of components necessary will be installed (without examples). You can change the language in the next					
	O <u>U</u> ser-defined	The next dialog box displays all installable components. Select which of them you want to install.					
		< <u>B</u> ack <u>N</u> ext > Cancel					

14. Now you can choose the installation languages to be installed (\rightarrow Next).

TEP 7 Professional Se	tup: Install Language-Specific Files	
	Select the languages to be installed. You must select at least one language.	
SIMATIC	Components	
Software		ΠΚ
	✓ English	25075 K
	🔲 French	0 K
	🗖 Spanish	OK
	🔲 Italian	OK
different for the	- Description	
	Installs language-specific files.	
and the second second		
	Space Required:	222474 K
	Space Available:	48920 K
	< <u>B</u> ack <u>N</u> ext >	Cancel

Forward	d Notes	Installation	Authorization	Interface	



15. The installation is now started. One can see all the options expanded on the screen (\rightarrow Next).

STEP 7 Professional Set	up: Start Installation	X
SIMATIC	The program files can now be installed. Click "Back" if you wa to change the settings. Click "Next" to start the installation.	nt
	Current settings: Setup Type Standard Programs English Examples Mix Zebra Com_sfb Com_sfc1 Com_sfc2 GetStarted TI-S7 Converter	
	< <u>B</u> ack <u>Next</u> > Cancel	

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4. HANDLING OF THE AUTHORIZATION



The professional version of STEP 7 requires authorization that must be transferred onto the PC in order to make the use of the professional of STEP 7 possible.

In order to be used on another PC, the authorization can be returned to the disk when needed.

This happens as follows:

1. First the authorization disk must be placed in the disk drive and then the tool **AuthorsW** opened $(\rightarrow \text{START} \rightarrow \text{Simatic} \rightarrow \text{AuthorsW})$.



2. Then the **AuthorsW** tool is opened and the hard disk as well as the disk are searched for authorizations.



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3.



In order to transfer the authorization, highlight the desired authorization with a mouse click and then transfer onto the disk with the button \leftarrow (\rightarrow SIK/SIMATIC STEP 7-Basis V5.0 \rightarrow \leftarrow).

	Eile Edit Authorization View Eavorites	<u>Options</u> <u>H</u> elp			
ſ	Manage Authorizations Transfer Authorizati	ions			
1	A'	-	▼ 🛃	C/	
	Product SIK/SIMATIC 57-GRAPH V5.1 SIK/SIMATIC 57-GRAPH V5.1 SIK/SIMATIC 57-GRAPH V5.0 SIK/SIMATIC 57-DECSIM V5.0 SIK/SIMATIC 57-DECSIM V5.0 SIK/SIMATIC 57-SEL V5.1 SIK/SIMATIC 57-SEL V5.1 SIK/SIMATIC 57-SEL V5.1 SIK/SIMATIC STEP 7-BASIS V	Counter Validay 0 Unimited 1 14 Days 1 Unimited 1 14 Days 0 Unimited 1 14 Days 0 Unimited 1 14 Days 0 Unimited 1 14 Days	Name AIS761 AIS721 AIS721 AIS721 AIS104 AIS104 AI7104	Product Solution Soluti	Counter Validity Name 1 Unlimited A1S7Gi 1 Unlimited A1PLCS 1 Unlimited A17104
	Ready				



Note:

Likewise one proceeds to transfer authorizations from the authorization disk to the hard disk.

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5. **UPGRADE OF THE AUTHORIZATION**



When an older version of STEP 7 needs to be updated, there is the possibility to purchase a price efficient Upgrade. Before this can be installed, the authorization from your old authorization disk must be transferred to the new disk and then upgraded to the new version. The requirement is that the authorization from the PC was transferred onto the old disk.

It is explained in the following, how version 4.x is upgraded to version 5.x.

First the update-authorization disk must be placed in the disk drive and the tool AuthorsW 1. opened (\rightarrow START \rightarrow Simatic \rightarrow AuthorsW \rightarrow AuthorsW).



2. Then the AuthorsW tool is opened and the hard disk as well as the disk are searched for authorizations.



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3. The available authorizations on the disk and hard disk are displayed. On the disk, you can find the upgrade-license.

AUTHORSW	.							_ 🗆 ×
File Edit Authorization View Favorites	Uptions	Help						
Manage Authorizations Transfer Authorizat	tions							
					l— ai			
A:\			<u> </u>					<u>_</u> <u></u>
Product	Counter	Validity	Name		Product	Counter	Validity	Name
SIK/SIMATIC S7-GRAPH V5.1	0	Unlimited	A1S7GI	>	SIK/SIMATIC S7-GRAPH V5.1	1	Unlimited	A1S7GI
SIK/SIMATIC S7-GRAPH V5.1 *14	1	14 Days	X1S7GI		💡 SIK/SIMATIC S7-PLCSIM V5.0	1	Unlimited	A1PLC:
SIK/SIMATIC S7-HIGRAPH V5.0	1	Unlimited	A1S7Z(≦	💡 SIK/SIMATIC STEP 7-BASIS V5.1	1	Unlimited	A17104
SIK/SIMATIC S7-HIGRAPH V5.0 *	1	14 Days	X197Z(A.B. [
SIK/SIMATIC S7-PLCSIM V5.0	0	Unlimited	A1PLCS					
SIK/SIMATIC S7-PLCSIM V5.0 *14	1	14 Days	X1PLCS	2411				
SIK/SIMATIC S7-SCL V5.1	0	Unlimited	A1SCL	CHÌI				
SIK/SIMATIC S7-SCL V5.1 *14 DA	1	14 Days	X1SCL					
SIK/SIMATIC STEP 7-BASIS V5.1	0	Unlimited	A17104					
SIK/SIMATIC STEP 7-BASIS V5.1	1	14 Days	×17104					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A1S7ZC					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A1PLC:					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A17104					
			ك		1.1			
Press Fill for help.							A	

4. First the **Upgrade** of the **Authorization** is started (\rightarrow Authorization \rightarrow Upgrade).

Manage	Upgrade	iorizati	ons							
🔒 A:					-		C:\			- 2
Produ	Show <u>H</u> istory Set Search Paths		Counter	Validity	Name		Product	Counter	Validity	Name
🖾 SIK	Joimanic Strange	n vo.1	0	Unlimited	A1S7GI	>	💡 SIK/SIMATIC S7-GRAPH V5.1	1	Unlimited	A1S70
🎩 🚨 SIK	/SIMATIC S7-GRAP	H V5.1 *14	1	14 Days	X1S7GI		SIK/SIMATIC S7-PLCSIM V5.0	1	Unlimited	A1PL0
🧏 SIK	SIMATIC S7-HIGR/	APH V5.0	1	Unlimited	A1\$7Z(<u>≤</u>	SIK/SIMATIC STEP 7-BASIS V5.1	1	Unlimited	A1710
SIK 🗸	/SIMATIC S7-HIGRA	APH V5.0 *	1	14 Days	X197Z(
L SIK	/SIMATIC S7-PLCSI	M V5.0	0	Unlimited	A1PLCS	<u>A</u> II/				
SIK	/SIMATIC S7-PLCSI	M V5.0 *14	1	14 Days	X1PLCS	< 411				
L SIK	75IMATIC 57-SCL V	5.1	0	Unlimited	A1SCL					
I SIK	VSIMATIC S7-SUL V	5.1 *14 DA	1	14 Days	X15UL					
	JOIMATIC STEP 7-8	ASIS VS. I	1	Unimited 14 Daws	A17104					
	JOIMATIC STEP 7-B	ASIS VO.1	1	14 Days	A107704					
I SIK	VSIMATIC Upgrade 5	TEP 7-BA	1	Uniimited	AIS7ZI					
	VSIMATIC Upgrade S	TEP 7-BA		Unlimited	AIPLU:					
4.05 DIN	a otmer no opgrade c	TEL POA		Uniimiteu	ATTTO					
							1			
1					Þ					

Forward Notes		Installation	Authorization	Interface

L



The displayed warning is accepted with **OK** (\rightarrow OK). 5.

Information	×
You should on no account reset the computer during the u	pgrading procedure, otherwise you will lose your authorization.
	DK

6. Then choose from which authorization version you want to update $(\rightarrow \text{Upgrade STEP 7- Basis V4.x-V5.1} \rightarrow \text{Open})$

Select Upgra	de Program				? ×
<u>S</u> uchen in:	🖃 अर्थ-Diskette (A:)	•	£	Ċ	
Ax nf zz Ax_check Cupgrade Cupgrade	STEP 7-Basis V3.x - V5.1 STEP 7-Basis V4.x - V5.1 STEP 7-Basis V5.0 - V5.1				
, Filename: Filetype:	Upgrade STEP 7-Basis V4.x - V5.1 Upgrade programs (UP*.exe)		•		OK Cancel

7. Now the authorization disk with the authorization for V4.x must be inserted and accepted with $\mathbf{OK} (\rightarrow \mathbf{OK}).$

Information	X
Please place the authorization disk for SIK/SIMATIC STEP 7-Basis V4.x in drive A(
Cancel	

It is then restated if the upgrade should be processed because the activity can no longer be 8. canceled when started (\rightarrow OK).

Information		X
Do you really want	t to upgrade?	
OK	Cancel	

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9. The update-authorization disk must be placed in the disk drive and the activity accepted with **OK** (\rightarrow OK).

Information	х
Please place the authorization disk for SIK/SIMATIC STEP 7-Basis V5.x in drive A $\!\lambda$	
Cancel	

10. Finally it is displayed, that the upgrade was successful (\rightarrow OK).

Information	×
The authorization was u	upgraded successfully
	Cancel

11. At the end of the process, the V5.1- License is displayed on the update- authorization disk.

🚽 AUTHORSW								_ 🗆 ×
<u>File Edit Authorization View Favorites</u>	<u>O</u> ptions	<u>H</u> elp						
	1							
	1							
Manage Authorizations Transfer Authorizations	ations							
					les ci			
A:1			<u> </u>					<u> </u>
Product	Counter	Validitu	Name		Product	Counter	Validitu	Name
SIK/SIMATIC S7-GRAPH V5.1	0	Unlimited	A1S7GI	~2	SIK/SIMATIC S7-GRAPH V5.1	1	Unlimited	A1S7GI
SIK/SIMATIC S7-GRAPH V5.1 *14.	. 1	14 Days	×1S7GI		SIK/SIMATIC S7-PLCSIM V5.0	1	Unlimited	A1PLCS
🕵 SIK/SIMATIC S7-HIGRAPH V5.0	1	Unlimited	A1S7Z(≦	SIK/SIMATIC STEP 7-BASIS V5.1	1	Unlimited	A17104
SIK/SIMATIC S7-HIGRAPH V5.0 *	1	14 Days	X1S7Z(
SIK/SIMATIC S7-PLCSIM V5.0	0	Unlimited	A1PLCS					
I SIK/SIMATIC S7-PLCSIM V5.0 *14	. 1	14 Days	X1PLCS					
SIK/SIMATIC S7-SCL V5.1	0	Unlimited	A1SCL	<aļi< td=""><td></td><td></td><td></td><td></td></aļi<>				
I SIK/SIMATIC S7-SCL V5.1 *14 DA	. 1	14 Days	X1SCL					
SIK/SIMATIC STEP 7-BASIS V5.1	0	Unlimited	A17104					
🎩 🎩 SIK/SIMATIC STEP 7-BASIS V5.1	. 1	14 Days	×17104					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A1S7ZC					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A1PLC:					
SIK/SIMATIC Upgrade STEP 7-BA	1	Unlimited	A17104					
			•		•			► I
Press F1 for help.							1	

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PROGRAM INTERFACE ADJUSTMENT (PC- ADAPTER)



6.

In order to program a SIMATIC S7-300 from the PC or PG, an MPI-Connection is needed. MPI stands for **M**ulti **P**oint Interface and is a communication interface that has connections for up to 32 devices(e.g. PCs,HMI systems, etc.). It is used with HMI (Human Machine Interface) systems to program, serve and observe data exchange between SIMATIC S7 CPUs.

Each SIMATIC S7-300 possesses an integrated interface.

There are many possible ways to attach a PC or laptop to an MPI:

- Integrated ISA- Communication processors for the PG
- ISA- Communication processors for the PC (e.g. MPI-ISA- Card)
- PCI- Communication processors for the PC (e.g. CP5611)
- PCMCIA- Communication processors for the laptop (e.g. CP5511)
- Adapter for the communication over the serial interface of a PC or laptop (e.g. PC-Adapter)

The following steps below describe the calibration and parameters of a PC-Adapter for a PC.

1. Call Set PG-PC-Interface. (\rightarrow Start \rightarrow SIMATIC \rightarrow STEP 7 \rightarrow Set PG-PC-Interface)



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•					

2.



The module **Select** is available as the MPI-interface (\rightarrow Select).

Set PG/PC Interface		×	
Access Path			
Access Point of the Application:		_	
S7ONLINE (STEP 7)		V	
(Standard for STEP 7)			
Interface Parameter Assignment Used:			
<none></none>	Properties		
Kone>	Copy Dejete		
			Choose 'Select
_ Interfaces			
Add/Remove:	Sele <u>c</u> t		
ОК	Cancel H	elp	

3. Select the desired module e.g. choose **PC-Adapter** and **Install** (\rightarrow PC-Adapter \rightarrow Install).





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4.



Make sure the desired module is present (\rightarrow PC Adapter \rightarrow Close).

Installing/Uninstalling Inte	erfaces				×
Selection: Module CP5411 CP5511 CP5611 MPI-ISA Card	_install>	Installe <u>d</u> : Module C Adapter	Hooule r Board 1	number	'PC Adapter' Board 1 should be present
	< <u>U</u> ninstall			<u>R</u> esources	
MPI/PROFIBUS access via	serial interface				
Close				Help	

5. Choose **Properties** of **PC-Adapter (MPI)** (\rightarrow PC Adapter(MPI) \rightarrow Properties).

Set PG/PC Interface	
Access Path	
Access Point of the Application:	
S7ONLINE (STEP 7)> PC Adapter(MPI)	
(Standard for STEP 7)	
Interface Parameter Assignment Used: PC Adapter(MPI)	
Image: Second system Copy Image: Second system Copy Image: Second system Dejete	Choose 'Properties'
(Parameter assignment of your PC adapter for an MPI network)	Choose 'PC Adapter (MPI)'
Add/Remove:	
OK Cancel Help	

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6.



Set the COM-Port and the Transmission Rate of the serial interface.



Note: The transmission rate must be suitably adjusted for the PC adapter! Older PC adapters (PC/MPI cables) should only be processed with a slower transmission rate of 19200 Bit/s .

7. Set the MPI-Address, Timeout, Transmission Rate and Highest Node Address.

MPI Local Connection	
Station Parameters MPI-Addre	ess of the
PG/PC is the gnly master on the bus PC/PG	
Address:	
Timeout: 30 s	
Natural Brunchu	
Transmission Rate: 187.5 Kbps Transmission ra	ate
Highest Node Address: 31	
Highest Node	Address
OK Default Cancel Help	



Note: It is recommended to use the preset values!

8. Accept the configuration (\rightarrow OK \rightarrow OK).

		Forward	Notes	Installation	Authorization	Interface
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9. After the values have been configured, double click on the **SIMATIC Manager** icon (\rightarrow SIMATIC Manager).



- 10. The plug placed from the MPI interface of the PC will appear on the MPI interface of the CPU and switch the voltage supply of the PLC on. The MPI interface is found behind the front flap of the CPU in the form of a 9pin D Sub socket.
- 11. When the button Accessible Nodes is clicked and all parameters were correctly selected, the screen will display the following picture with a folder for the reached MPI interface. The MPI-

Address of the CPU is also shown, which is calibrated with a 2 (\rightarrow \blacksquare).

SIMATIC Manager - Accessible Nodes			_ D ×
<u>File Edit Insert PLC View Options Window</u>	v <u>H</u> elp		
	6 ≗_ 🔛 📰 🏢 / No Filter >	<u>▼</u> <u>≫</u> <u>₩</u> @ <u></u>	
Accessible Nodes			
Accessible Nodes C:\Siemens\St	ep7\S7proj\test		
	PI = 2 (Simulation)		
Opens a window with the accessible nodes.			1

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