Operating Manual



Network T8 Control Unit

Version 2.0

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1. Basic informations

For reasons of simplicity, this manual refers to desktop PCs and laptops collectively as *PCs*.

1.1 Operating modes setup

1.1.1 T8 control unit with desktop PC/laptop

The T8 control unit can be networked with any PC that has a 10/100 megabit/s Ethernet network card. Chapter *1.2 Preconditions for network operation* contains the exact requirements to be met by PCs operating in these networks.



Figure 1.1: left: T8 Control Unit

NOTE

Right: Desktop PC

Figure 1.2: left: T8 Control Unit

Right: Laptop

The following modes can be implemented with this configuration:

No special software on PC

All designs accommodated on the PC's hard disk can be loaded to the T8-control unit memory via the network by selection from the T8 control unit.

Sources of design data on the PC's hard disk:

Design data received by e-mail

Design data generated by third-party software, such as a punch system

Design data loaded from data media, such as CD-ROMs or floppy disks etc

with GiS BasePac software on PC

Monograms/designs created with BasePac can be saved in a ZSK memory on the PC. Designs stored in the PC's ZSK memory can be accessed via the network by selection from the T8 control unit.

When the monogram machine mode is activated on the T8 control unit, the designs created with GiS software are transferred directly to the connected machine via the network. Designs cannot be selected from the T8 control unit in this mode.

with GiS Production Manager software on PC

Embroidery jobs generated by the Production Manager can be transferred to a machine with a T8 control unit that is connected via a network. For this purpose the monogram machine mode must be activated on the T8 control unit.



1.1.2 T8 control unit with other ZSK machines

The T8 control unit **cannot** be networked with machines having an MSCD or MSCA control, LCD control unit or even a T8 control unit.

It can **only** be networked with other ZSK machines having a TFT or MPC control unit.

However, this requires:

- 1. that at least the Windows 95 operating system is installed on the TFT or MPC control unit and
- 2. that a connection is made via a *RJ45 to BNC media converteror* an *RJ45 hub with BNC uplink connector*.

The TFT and MPC control units have a BNC connector, whereas the T8 control unit has an RJ45 connector. To allow the two different network connectors to be linked, additional hardware - in the form of the forenamed hub - is required.

In principle, a hub is a multiple socket-outlet for RJ45 networks. In principle, a hub is a multiple socket-outlet for RJ45 networks. The variant to be used here also requires a BNC uplink connector for linking a BNC network segment to an RJ45 network segment. This device then automatically supports the necessary 10 megabit standard.



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Figure 1.3: Rear view of the hub with BNC uplink

RJ45 connector

BNC connector



Basic informations

Figure 1.4: left: T8 Control Unit

Centre: Hub

Right: TFT

Figure 1.5: left: T8 Control Unit

Centre: Hub

Right: MPC control unit



The following operation can be implemented with this configuration:

Designs in the ZSK memory of a networked machine equipped with a TFT or MPC control unit can be loaded from the T8 control unit.

A machine equipped with a TFT or MPC control unit cannot, however, transfer designs to a machine equipped with a T8 control unit.



1.2 Preconditions for network operation

This chapter lists the minimum requirements that the PC and the machine must satisfy for network operation.

1.2.1 Hardware requirements for desktop PC/laptop

As a general rule, <u>any PC with an Ethernet network card</u> can be integrated in a network. The hardware requirements outlined below are for a PC that is to host GiS BasePac or Production Manager software:

- 10/100 megabit/s Ethernet network card with RJ45 connector and drivers.
- Pentium II with 300 MHz or more powerful processor
- 64 MB main memory (RAM) or more (depending on operating system)
- 1,2 GB hard disk or larger (depending on operating system)
- Graphic card with drivers.
- The resolution must be at least 800 x 600 pixels in the HiColor mode (16-bit color depth).
- 15-inch or larger color monitor.
- The monitor must be capable of depicting the mode selected on the graphic card.
- At least one parallel interface (LPT) for the GiS Software dongle
- Desktop PC keyboard
- Mouse or trackball
- Suitable network cables
 - Direct connection between PC and machine with RJ45 UTP cable: crossed cable for connecting 2 computers
 - Connection between PC and machine via a hub with RJ45 UTP cable: uncrossed cable for connecting PC and machine via a hub



1.2.2 Required operating system for desktop PC/laptop

All Microsoft operating systems **fromWindows 95** upwards can be used (including Windows 95)!

The local language version of the operating system can be used.

1.2.3 Required GiS software for desktop PC/laptop

All GiS BasePac software packages from version 98 can be used.

All versions of the GiS Production Manager can be used. The GiS Production Manager version must be compatible with the GiS BasePac version.

1.2.4 Operating system for a machine with TFT/MPC control unit

Machines with a TFT/MPC control unit must be equipped with the Windows 95 operating system or a later version if they are to be operated in a network with a T8 control unit.

Windows for Workgroups 3.11 is the operating system most commonly installed on existing machines with a TFT/MPC control unit. If you wish to establish a network connection from a machine with an T8 control unit to one with a TFT/MPC control unit, you therefore need to install a **new operating system**.

Windows 95 or Windows 98 is already being used on some machines that have a TFT/MPC control unit. In particular, these are machines on which **BasePac 98** or a more recent version of the GiS monogram software is installed.

You also need to make certain in the Windows 95 or Windows 98 operating system that the TCP/IP network protocol has already been installed.

The protocol may need to be installed or configured.

NOTE

To create a network, additional hardware is required (see chapter *1.1.2 T8 control unit with other ZSK machines*).

1.3 Network cabling

NOTE

All systems must be switched off before you modify any network connections.

The network cables must be run separately from mains and power cables.

1.3.1 RJ45 cable connection (standard)

The T8 control unit is connected by means of an RJ45 network, also known as a twisted-pair Ethernet.

A 10/100 megabit network card is installed in the T8 control unit. It has an RJ45 network connector.

Figure 1.6: Rear of control unit: Male and female RJ45 connectors











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Note the following when using an RJ45 network:

• Star network arrangement

Exception: the direct connection of exactly two systems by way of a special cable.

- Transfer rate 10 megabit/s or 100 megabit/s
- The network can be expanded to embrace more than one segment by installing additional hardware (switch/hub/router)
- Maximum of 1024 network users; distribution by additional hardware (switch/ hub/router)
- Maximum distance between network user and switch/hub/router 100 m
- Coverage depends on the *link segments*
- Network connecting cable type UTP CAT 5 (<u>Unshielded Twisted Pair</u>)
- A crossed cable is required for the direct connection between the T8 and PC.
- Uncrossed cables are required for connecting the T8 and PC via a hub: Cable 1 for connecting the T8 and hub Cable 2 for connecting the PC and hub
- The UTP cables are inserted directly in the relevant RJ45 connector of the network user or hub.



NOTE

Since the appearance of the UTP network cables is identical, clearly mark them as crossed and uncrossed as soon as they are purchased.





Example: RJ45 cabling with two network users:

Figure 1.7: 2 network users

Left: system 1 (control unit)

Right: system 2 (PC)





A crossed UTP network cable is required.

Example: RJ45 cabling with three network users by way of a hub:

Figure 1.8: 3 network users with hub

Left: system 1 (control unit 1) system 2 (control unit 2)

Right: system 3 (PC)









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NOTE

The network cables are shown in different colors for the purposes of illustration. However, they are all identical uncrossed UTP network cables.



1.3.2 BNC cabling (special case)

NOTE

The use of a BNC cable connection is only necessary when connecting the T8 control unit to a TFT or MPC control unit.

Additional hardware is required [Chapter 1.1.2 T8 control unit with other ZSK machines]

Note the following when using an BNC network:

- Linear network arrangement (bus) The network consists of several stations arranged in a consecutive series.
- Operation is possible **only** with additional hardware (hub/RJ45 cable) [Chapter *1.1.2 T8 control unit with other ZSK machines*]
- Transfer rate 10 megabit/s
- Maximum of 30 users per network segment
- Maximum length per segment 185 m, minimum distance between two users 0.5 m
- Network connecting cable type black Cheapernet RG 58
- Each end of the network segment must have a BNC terminator (50 Ohm)
- Each network segment is to be grounded at one end

NOTE

The BNC network cable must never be ported directly to the BNC connector of a network user although it may be possible in theory. A BNC T adapter has to be installed on the systems being networked (TFT, hub) first. To link the systems, connect each end of a network cable to the BNC T adapters of the systems that are to constitute the network. To terminate the network properly, a BNC terminating resistor (50 Ohm) has to be connected to the unassigned ports of the BNC terminators.





2. Configuration

This chapter describes the operating system settings required to operate a PC in a network with a T8 control unit.

Simple tips on checking operability and troubleshooting, if necessary, are contained in the last section of this chapter.

This guide cannot cover every conceivable on-screen dialog and security response, however, because these generally depend on the exact configuration of the PC.

In case of doubt, consult an engineer with a specialist knowledge of PCs. By referring to this guide, he will be able to help you to adjust the PC accordingly.

The descriptions below assume that the network card has been installed correctly. This guide does not cover the installation and configuration of the PC's network card.

ATTENTION

NOTE

You need appropriate administrator rights on your PC in order to make the necessary settings.

2.1 Necessary operating system settings (Windows)

Operating system settings that need to be made:

- Set up the TCP/IP protocol
- Setting up File and Print Sharing
- Install Client for Microsoft Networks in Windows
- Define identifiers by means of computer names and workgroups
- System-specific settings

Windows 95/98/ME: - Enable access control for network resources

Windows XP Professional: - Disable simple file sharing

Windows Vista Business/Enterprise/Ultimate Edition:

- Disable Sharing Wizard

2.1.1 Setting up the TCP/IP protocol

The TCP/IP network protocol must be available on the PC and fully configured.

Each system connected to the network must be assigned a unique IP address. The IP address consists of four three-digit number blocks each separated by a dot (xxx.xxx.xxx). The number range is 1 through 254. Issuing IP addresses:

N Sk

a) Small networks embracing a small number of systems and not connected to a company network

Typical application: connecting an T8 to a PC, or an T8 to a TFT

Issue the IP addresses in the range from 192.168.0.1 through 192.168.0.254. It is best practice to start with 1 and increment by 1 for each subsequent network user (PC, machine).

Example: PC1: IP address 192.168.0.1 PC2: IP address 192.168.0.2 and so on

A network of this type can accommodate up to 255 users.

Use the setting 255.255.255.0 as the subnet mask for all systems.

b) Small networks embracing a small number of systems and not connected to a company network but including ZSK EPCunix systems:

Typical application: connecting an T8 to a PC and EPCunix system, or an T8 to a TFT and EPCunix system

Für EPCunix Systeme sind zwangsweise die IP-Adressen 192.6.2.x zu verwenden (mit x = 0...9). The other systems must be assigned IP addresses 192.6.2.y (where y = 11 to 254).

Example: EPC1: 192.6.2.1 PC1: 192.6.2.11 PC2: 192.6.2.12

A network of this type can accommodate up to 255 users. Use the setting 255.255.255.0 as the subnet mask for all systems.

c) Larger networks or when integrating the network in a company network

Typical application: company network with central data processing

The IP addresses and subnet mask for new network users have to be defined in consultation with the network administrator.

2.1.2 Setting up File and Print Sharing

File and Print Sharing must be installed. Data cannot be exchanged via the network unless File Sharing is enabled. Since Print Sharing is not required for exchanging data with the embroidery machine, it can remain disabled.

2.1.3 Install Client for Microsoft Networks in Windows

In the Network Neighborhood Properties, the *Client for Microsoft Networks* must be installed and enabled.

2.1.4 Defining identifiers: computer names and workgroups

Besides its IP address, each PC must have a unique name The name can contain no more than 15 characters and comprise only the characters a...z, A...Z. A different computer name must be assigned to each PC and each machine in the network An appropriate name for a PC using GiS software, for example, would be *GISPC*. Make a note of the computer name; it has to be entered when setting up a network connection from the T8 control unit to the PC.

2.1.5 System-specific settings

Enabling access control for network resources:

Under Windows 95/98/ME share-level access control must be enabled in the Network Neighborhood Properties.

Disable simple file sharing:

Under Windows XP Professional *Use simple file sharing (recommended)* should be deselected in the folder options.

Disable Sharing Wizard:

Under Windows Vista Business/Enterprise/Ultimate Edition *Use Sharing Wizard (Recommended)* should be deselected in the folder options.

2.2 Usingguest or user accounts (Windows)

To grant other network users access to your PC under Windows NT 4.0/2000/XP/ Vista , you must enable a guest account or create and enable a user account.

2.2.1 Guest account

This allows all network users to access the partitions/directories that are enabled on the PC. A password is not needed to obtain access. Although this makes for simple network operation, it is also very insecure.

ATTENTION

If integrated in a company network, a guest account is generally not permissible. Consultation with the responsible network administrator is essential.

When the PC is no longer connected to the control unit, the guest account should be turned off.

2.2.2 User account

Setting up a special user account for network access to the PC (from the T8 control unit) is practicable only under Windows **NT 4.0/2000/XP Professional** and Windows Vista **Business/Enterprise/Ultimate**. A user name and a user password must be entered when creating the account. Directories can be enabled specially for this account, i.e. only network users having the user name and user password can access the directory.

NOTE

When creating the password, please note the following The password should contain at least eight characters; the longer it is, the more secure it becomes (max. 15 characters). It should consist of upper and lower case letters, numbers and symbols.

You should make a note of the *user name* and the *password*. You will need these data when creating the *network user name* and the *network password* on the T8-control unit (Section 2.3 T8 control unit settings).



Figure 2.1: T8 control unit, machine basic screen

Figure 2.2: T8 control unit,

software/hardware settings

2.3 T8 control unit settings

After it has been switched on (and the machine initialization routine has been completed), the T8 control unit basic screen appears.



• Press the **[L7] software/hardware settings key** to open the dialog of the same name.

	/hardware settings
Display software versions	Language for dialog texts
Display hardware versions	Set system clock
List of fault occurrences	Network setup
Create service disk	Software settings

- Press [R3] Network setup key .
 - ⇒ The*network setup* dialog appears, in which the following four configurations for network operation by the T8 control unit can/must be entered:



Figure 2.3: T8 control unit, network setup

Ne	twork setup
Editing will t	rigger a software restart!
	rigger a soltware restart:
IP address and subnet mask	Network user name
Computer name	Network password
Network test (ping)	Previous
Network test (ping)	Previous

- 1. IP address and subnet mask
- 2. Computer name
- 3. Network user name
- 4. Network password







etwork IP address:		
🖌 Issue manually	IP address:	0.0.0
Obtain from DHCP server)	
fetwork subnet mask:		
✔ Use default value)	
Issue manually	Subnet mask:	0.0.0.0
Recommended for experts only)	,	
Confirm	Previous	

• Press button **[R3]** to enter the *IP address*.

	Enter network IP adress
	For small local networks use IP adress from adress range as follows:
	192.168.0.x x = 1254
	For further inquiry contact your local network administrator.
	IP address: 192 168 0 .
Con	firm
1	

Enter the IP address with the aid of the **[U1]-[U0]** keys (below the display) and**[TAB] key**. In the current example, 192.168.0.1 was entered as the IP address. When assigning the IP address, note the remarks in Subsection *2.1 Necessary operating system settings (Windows)* as well.

• To accept the IP address, press the [L8] Confirm key.

Figure 2.7: T8 control unit, entering network IP address



Figure 2.8: T8 control unit, network IP address and subnet mask

✓ Issue manually	. IP address:	192.168.0.
Obtain from DHCP server		
Network subnet mask:		
🕑 Use default value		
Issue manually	Subnet mask:	255.255.25
(Recommended for experts only)		
(Recommended for experts only)	Subnet mask:	255.255.2
	\neg	

- Check that the **[L6] Use default value** option is selected.
- To accept the settings, press the **[L8] Confirm** key.

2. Computer name

NOTE

Figure 2.9: T8 control unit, network setup

It is not necessary to change the computer name. You can go straight to section *3. Network user name*.

The control unit has already been allocated a computer name as standard. This comprises the designation **ZSKMID** and the relevant machine number. In the current example, the computer name is **ZSKMID26039**. Including the machine number ensures the computer name is allocated once only.

	Network setup
	Editing will trigger a software restart!
IP	address and subnet mask Network user name
-	
Cor	mputer name Network password
Net	twork test (ping)
Net	twork test (ping) Restart software
Net	
Net	
Net	

• Select the[L3] Computer name key.



Figure 2.10: T8 control unit, network setup



• You can allocate a new computer name with the available keys.

Close the menu dialog by pressing the **[OK]** or **[ESC]** keys on the cursor pad. Press the **[OK]** key to accept the new computer name. If the **[ESC]** key is pressed, the new computer name is not accepted.



3. Network user name

Figure 2.11:
T8 control unit,
network setup

	N	Network setup
	Editing will	trigger a software restart!
TP address a	and subnet mask	Network user name
II dddress e	ing subject huse	Network user manie
Computer nam	ne	Network password
Network test	; (ping)	
Network test		

• Select the [R3] Network user name key.

The default network user name setting is *guest*. This setting can remain unchanged with the Windows 95/98/ME operating systems and for using a guest account. If a user account is being used, enter the relevant name.

When using a guest account or under Windows 95/98/ME



Figure 2.12: T8 control unit, entering network user name



Figure 2.13: T8 control unit, entering network user name

When using a user account

The name of the user account previously set up as an example was *Net-User*. The network user name **must** then also be *Net-User*!

Enter network user name	
a	z
b Own user identification for access to other network PC's Special characters and blanks are not allowed!	Y
C	×
d	W
e Net-User	v
f	u
g TAB Switching to other characters	t
h Delete character left of cursor	s
i j k l m n o p q 02060015	r

Close the menu dialog by pressing the **[OK]** or **[ESC]** keys on the cursor pad. Press the **[OK]** key to accept the new network user name. If the **[ESC]** key is pressed, the new network user name is not accepted.



Figure 2.14: T8 control unit, network setup Editing will trigger a software restart! IP address and subnet mask Network user name Computer name Network test (ping) Restart software D200012

• Select the **[R4] Network password** key.

A network password is not issued as standard. This setting can remain unchanged with the Windows 95/98/ME operating systems and for using a guest account under Windows NT 4.0/2000/XP . If using a user account under Windows NT 4.0/2000/XP Professional, enter the password for the created user account.

When using a guest account or under Windows 95/98/ME



Figure 2.15: T8 control unit, entering network password


When using a user account

The password previously entered as an example under Windows was *-Terminal-T8*. The network password **must** then also be*-Terminal-T8*.

	Enter network password	
a		z
b	User password for access to other network PC's Special characters and blanks are not allowed!	У
C		×
d		W
e	-Terminal-T8	v
f		u
g	TAB Switching to other characters	t
h	Delete character left of cursor	s
i j	k 1 m n o p q	r

Close the menu dialog by pressing the **[OK]** or **[ESC]** keys on the cursor pad. Press the **[OK]** key to accept the new network password. If the **[ESC]** key is pressed, the new network password is not accepted.

If you have made changes, you need to restart the software.

	Network s	etup
Editing w	ill trigger a	a software restart!
IP address and subnet m	ask	Network user name
Computer name		Network password
Network test (ping)		
	Restart so	Change and a second sec

Use the [L7]/[R7] Restart software key to initiate the restart.

• Then follow the instructions that appear on the screen.



Figure 2.17: T8 control unit, network setup



Figure 2.18: T8 control unit, switching off machine

≥ +0+≥
0 30 sec. 1
The following steps are necessary:
1. Switch off machine
2. Wait 30 seconds
3. Switch on machine

NOTE

If necessary, in order to use the T8 control unit in large company networks, special configurations of the T8 control unit can be entered in consultation with the network administrator (e.g. automatic allocation of the IP addresses by a DHCP server).

2.4 Checking the network and tips on troubleshooting

Network functionality at the lowest level can be tested simply by means of the ping test. This can be used to test:

- the network cable (switch/hub)
- the installation and configuration of the network card (PC)
- the installation and configuration of the TCP/IP protocol (PC)
- the configuration of the IP address and subnet mask on the T8 control unit.

2.4.1 Network test from the T8 control unit to the PC

To arrive at the depicted *Network setup* menu, press the **[L7] Software/hardware settings** key in the basic screen and then the **[R3] Network setup key**[Section 2.3 *T8 control unit settings*].



• Now press the [L6] Network test (ping) key.

The IP address required for the test can either be entered directly or obtained by entering the computer name. Entering the computer name has the advantage that, in addition to data transfer, the functioning of the PC's *Name resolution* is also tested. For this reason, this method is preferable to that of entering the IP address directly. (In the example the PC's IP address is *192.168.0.2* and the computer name is *GISPC*).

Figure 2.19: T8 control unit, network setup

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Figure 2.20: Network test (ping) T8 control unit, network test (ping) T8 control unit -192.168.0.1 IP address: Computer name: ZSKMID26039 IP address Destination computer IP address: Computer name Computer name Execute test Previous 5 8 1 2 з 4 6 7

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• Enter the PC's computer name by way of the **[L6]** or **[R6]** keys (recommended).

Alternatively:

• Enter the PC's IP address directly using the keys beneath the display **[U1]-[U0]** and with the **[L5]**, **[R5]** or **[TAB]** keys.

Proceed as follows: Enter the computer name as documented below and carry out the ping test. If the test is <u>unsuccessful</u>, try it by entering the IP address directly. If the test then succeeds, something is probably wrong with the *Name resolution* of your PC. Tips on

Name resolution and tips on what to do if the test fails again are contained in Section *2.4.3 Troubleshooting hints*.

If the IP address is entered directly, continue with the Network test (ping) dialog.





Figure 2.21: T8 control unit,

entering computer name

The following menu appears for entering the computer name. (The **[L6]** or **[R6]** keys were previously pressed)

	Enter computer name	
a		z
b	Identification of destination computer within network Special characters and blanks are not allowed!	Y
c		×
d		w
e		v
f		u
g	TAB Switching to other characters Image: Switching to capital letters	t
h	Delete character left of cursor	s
i (j k 1 m n o p q	r

- Enter the computer name and exit the menu with the **[OK] key.**
 - ⇒ You are returned to the *Network test (ping)* menu, in which the PC's IP address is now displayed.

	Network test (ping)
	T8 control unit IP address: 192.168.0.1 Computer name: ZSKMID26039
	Destination computer IP address: 192 . 168 . 0 . 2 Computer name
Execute test	Previous
1 2	3 4 5 6 7 8 9 0

- To carry out the test now press the [L8] Test key.
 - ➡ If the following menu appears, the test (transmission) has been successful.

Figure 2.22: T8 control unit, network test (ping) with IP

address entered



Figure 2.23:

T8 control unit,

Network test (ping) network test (ping) with T8 control unit -192.168.0.1 IP address: IP address entered Computer name: ZSKMID26039 Destination computer IP address: 192 168 0 2 Computer name Transmission successful Execute test Previous 2 3 4 5 6 7 1

02060022

You can now return to the basic screen (e.g. by pressing the [ESC] key repeat-• edly).

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2.4.2 Network test from PC to T8 control unit



- From the *Start* menu, select the *Run* ... option: •
- In the window that appears, enter cmd for Windows NT 4.0/2000/XP/Vista ٠ and confirm with [OK].

Figure 2.24: Windows NT 4. 0/2000/ XP/Vista, run...





Figure 2.25: Windows 95/98/ME, run...

T	Type the name of a program, folder, or d Windows will open it for you.	ocument, an
<u>Open</u> :	command	
<u>o</u> pen.	Jeonimana	
	OK Cancel	Browse

- Enter *command* for Windows 95/98/ME and confirm with [OK].
 - \Rightarrow The MS-DOS prompt appears.
- Enter *ping xxx.xxx.xxx* in the MS-DOS prompt.

The x's are to be replaced by the IP address of the network user being tested. **Example:** *ping 192.168.0.1*

This test examines whether the network PC can contact the network user with the IP address 192.168.0.1.

• Terminate the input with RETURN.

The IP address 192.6.1.7 in the illustrations is only an example.





NOTE

Figure 2.26: MS-DOS prompt, Screenshot following a successful ping test:

Figure 2.27: MS-DOS prompt, Screenshot illustrating faulty network: To test the settings of the network PC, start the *ipconfig* program by entering the command together with the *all* parameter at the *MS-DOS prompt*. Enter *ipconfig/all* and confirm with **RETURN**. A list similar to the one below appears on the screen. It shows the configuration of the system on which the program was started.

Windows 98 IP Configuration

Host Name	: PRINTER
DNS-Server	:
Node type	: Broadcast
NetBIOS Scope ID	:
IP Routing Enabled	: No
WINS Proxy Enabled.	: No
NetBIOS Resolution uses DNS	: No

0 Ethernet adapter:

Description	: Novell 2000 Adapter
Physical Address	: 00-00-B4-39-28-9C
DHCP Enabled.	: No
IP Address	: 192.6.1.27
Subnet mask	: 255.255.255.0
Default Gateway	
Primary WINS Server	
Secondary WINS Server	
Lease Obtained	
Lease Expires	
*	



2.4.3 Troubleshooting hints

In the event of problems with *Name resolution* on the PC, as described in Section *2.4.1 Network test from the T8 control unit to the PC*:

Windows 2000 operating system and later versions:

Advanced TCP/IP Settings I Solutions IP Settings DNS WINS Options WINS addresses, in order of use: I addresses, in order of use: I addresses, in order of use: Add Edit Remove If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled. Import LMHOSTS NetBIOS setting Import LMHOSTS VetBIOS setting Import LMHOSTS VetBIOS setting Options Is NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP Fnable NetBIOS over TCP/IP Disable NetBIOS over TCP/IP OK Cancel	 Select the option Enable Net- BIOS over TCP/IP under the WINS tab of the Advanced TCP/IP Settings dialog.
00491623	
	IP Settings DNS WINS Options WINS addresses, in order of use: Add Edk Remove If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled. Enable LMHOSTS lookup Import LMHOSTS NetBIOS setting Default Use NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP Fnable NetBIOS over TCP/IP Disable NetBIOS over TCP/IP Disable NetBIOS over TCP/IP Disable NetBIOS over TCP/IP DK Cancel

How to arrive at this dialog is described in the section of the relevant operating system dealing with *Necessary operating system settings*.

(In most instances the default option is the correct setting.)

NOTE

Continue with the following sections even if *Name resolution* fails to work after you have proceeded according to the tip: network operation may still nonetheless be possible.

Further troubleshooting tips

Have both systems (PC and machine) been switched off and, after a brief delay, back on following completion of all configuration routines?

If applicable, are the RJ45 cabling and connectors correct?

- ➡ crossed patch cable in case of direct connection from network card to network card
- \Rightarrow uncrossed patch cable if the network users are connected via a hub

Could it be that the RJ45 cables are defective?

- \Rightarrow Test cables on a functioning network
- \Rightarrow Change cables

Is the network card installed correctly and do any resource conflicts arise?

➡ Depending on the operating system, check in the device manager or control panel /hardware etc.

Is a firewall or an antivirus program enabled on the PC that is preventing the data exchange?

- ⇒ With Windows XP and Windows firewall switched on: From the *Start* menu and *Settings* option, start the *Control Panel* program. In the *Control Panel* double-click *Windows Firewall*. On the *Advanced* tab under *ICMP settings* switch on the *Allow incoming echo request* option.
- ⇒ With Windows Vista and Windows firewall switched on: From *the Start* menu and the *Search* option, select the *For files or Folders...* option. Enter *Firewall* as the search term. Then double-click the search result *Windows Firewall with Advanced Security*. There, click on *Incoming Rules* and activate the rule*File and printer sharing (echo request – ICMPv4 incoming)*. If multiple rules are present, you can verify which one is relevant for you in the *Network and sharing center*. (You can start the *Network and sharing center* by keying in *net* as the search term.)

Have all the configuration tasks described in Section 2.1 Necessary operating system settings (Windows) been performed?

- \Rightarrow TCP/IP installed?
- \Rightarrow Different IP addresses issued to all network users?
- \Rightarrow Same subnet mask used?
- \Rightarrow Different computer names entered?
- ⇒ Microsoft Network Client installed?
- ⇒ Share-level access control enabled in Windows 95/98/ME?

Additional tips if using BNC connections

Are the BNC cabling and connectors correct?

⇒ Have BNC T adapters with terminating resistors been used on the *up-link switch* and LCD/TFT/MPC control unit network components?

Are the BNC cables defective?

- \Rightarrow Measure the continuity of the cables' core and shield
- ➡ Test for absence of a short circuit in the cable between the core and shield

Is the resistance of the terminating resistors 50 Ohm, or are they defective?

 \Rightarrow Measure the resistance with a multimeter

Is the connected cable type compatible with the PC network card?

 \Rightarrow Automatic detection of media type or correct setting for media type

Is operating system Windows 95 or later installed for TFT/MPC control unit?



2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software

NOTE

Network testing, as explained in Chapter 2.4 *Checking the network and tips on troubleshooting*, should have already been completed from this point onwards.

All subsequent chapters refer to the conditions made in this section under *Typical application 1*.

This section illustrates three typical applications for a possible network configuration:

Typical application 1: simplest configuration

Network comprising:

- One machine with an T8 control unit
- A PC with GiS BasePac software (referred to as GISPC in the following)
- The data exchange directory is created on the GiSPC

Typical application 2: advanced configuration

Network comprising:

- Machine 1 with T8 control unit
- Machine 2 with T8 control unit
- Machine n with T8 control unit
- A PC with GiS BasePac software (referred to as GISPC in the following)
- The data exchange directories are created on the GISPC

Typical application 3: special configuration

Network comprising:

- Machine 1 with T8 control unit
- Machine 2 with T8 control unit
- Machine n with T8 control unit
- A PC with GiS BasePac software (referred to as GISPC in the following)
- Additional PC containing the data exchange directories (e.g. a server)

These three typical applications are each subdivided into 4 operations that need to be carried out. Details of how to carry out these operations are contained in the following sections and in Chapter 3. Network operation with GiS BasePac software.

- The 4 necessary operations are stated below, together with the relevant section numbers:
- 1. Create data exchange directory Kapitel 2.6
- 2. Enable data exchange directory for network operation Kapitel 2.6
- 3. Set up the access path for the GiS software to the data exchange directory *Kapitel 2.7*
- 4. Set up network connection at T8 control units *Kapitel 3.1.2* and *Kapitel 3.2.1*



Typical application 1: simplest configuration

1. Create data exchange directory

On the **GISPC**:

• Create the data exchange directory for the machine: typically *C*:*ZSK* *MUSTER*

2. Enable data exchange directory for network operation

On the **GISPC**:

- Set up the **access rights** for the directory to **full access**, i.e. write and read access rights.
- If a user account has been set up as described in section 2.1 Necessary operating system settings (Windows) (Net User), grant access authorization for this account. Alternatively, if a guest account is used, leave the access authorization setting on *Everyone*.
- Use the following **share name**:
 - ➡ For the machine enable the directory C:\ZSK under the share name: FRZSK

3. Set up the access path for the BasePac software to the data exchange directory

On the **GISPC**:

• In the BasePac software, set up the access path to the ZSK memory of machine: *C*:*ZSK* *MUSTER*

4. Set up network connection at T8 control unit.

On the machine's T8 control unit:

• Set up the network connection for the machine to \\GISPC \FRZSK.

Typical application 2: advanced configuration

1. Create data exchange directories:

On the **GISPC**:

- For machine 1: typically C:\MACH_001 \ZSK \MUSTER
- For machine 2: typically C:\MACH_002 \ZSK \MUSTER
- For machine n: typically C:\MACH_00n \ZSK \MUSTER

2. Enable data exchange directories for network operation:

On the **GISPC**:

- Set up the **access rights** for each directory to**full access**, i.e. write and read access rights.
- If a user account has been set up as described in section 2.1 Necessary operating system settings (Windows) (Net User), grant access authorization for this account (for every directory!). Alternatively, if a guest account is used, leave the access authorization settings on *Everyone*.
- Use the following share names:
 - ➡ For machine 1, enable the directory C:\MACH_001 \ZSK under the share name:
 FRMA 001.
 - ➡ For machine 2, enable the directory C:\MACH_002 \ZSK under the share name: FRMA 002.
 - ➡ For machine n, enable the directory C:\MACH_00n \ZSK under the share name: FRMA_00n.



3. Set up access paths for BasePac software to data exchange directories:

On the **GISPC**:

- In the BasePac software, set up the access path to the ZSK memory of machine 1: C:\MACH_001 \ZSK \MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine 2: C:\MACH_002 \ZSK \MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine n: C:\MACH_00n \ZSK \MUSTER

4. Set up network connections at T8 control units:

On the machines' T8 control units:

- Set up the network connection for machine 1 to ||GISPC |FRMA_001.
- Set up the network connection for machine 2 to \\GISPC \FRMA_002.
- Set up the network connection for machine n to \\GISPC \FRMA_00n.

Typical application 3: special configuration

1. Create data exchange directories:

On the **SERVER**:

- For machine 1: typically C:\MACH_001 \ZSK \MUSTER
- For machine 2: typically C:\MACH_002 \ZSK \MUSTER
- For machine n: typically C:\MACH_00n \ZSK \MUSTER

2. Enable data exchange directories for network operation:

On the SERVER:

- Set up the **access rights** for each directory to**full access**, i.e. write and read access rights.
- If a user account has been set up as described in section *Necessary operating system settings (Windows)* (Net User), grant access authorization for this account (for every directory!). Alternatively, if a guest account is used, leave the access authorization settings on *Everyone*.
- Use the following share names:
 - ⇒ For machine 1, enable the directory C:\MACH_001 \ZSK under the share name: *FRMA_001*.
 - \Rightarrow For machine 2, enable the directory C:\MACH_002 \ZSK under the share name: *FRMA_002*.
 - For machine n, enable the directory C:\MACH_0n3 \ZSK under the share name: $FRMA_00n$.

NOTE

If using BasePac software that is older than BasePac21 Version 4.06, the following data exchange directories must also be enabled:

- ➡ For machine 1, enable the directory C:\MACH_001 under the share name: *FRMA_001_GIS*.
- ➡ For machine 2, enable the directory C:\MACH_002 under the share name:: *FRMA_002_GIS*.
- ➡ For machine n, enable the directory C:\MACH_00n under the share name: *FRMA_00n_GIS*.

3. Set up access paths for BasePac software to data exchange directories:

On the **GISPC**:

- In the BasePac software, set up the access path to the ZSK memory of machine 1: \\SERVER \FRMA_001 \MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine
 2: \\SERVER \FRMA_002 \MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine n: *SERVER* *FRMA_00n* *MUSTER*

NOTE

If using BasePac software that is older than BasePac21 Version 4.06, the forenamed access paths to the data exchange directories must be changed as follows:

- In the BasePac software, set up the access path to the ZSK memory of machine 1: \\SERVER \FRMA_001_GIS \ZSK \MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine 2: \\SERVER \FRMA_002_GIS \ZSK\MUSTER
- In the BasePac software, set up the access path to the ZSK memory of machine n: *SERVER* *FRMA_00n_GIS* *ZSK* *MUSTER*



4. Set up network connections at T8 control units:

On the machines' T8 control units:

- Set up the network connection for machine 1 to \\SERVER \FRMA_001.
- Set up the network connection for machine 2 to \\SERVER \FRMA_002.
- Set up the network connection for machine n to \\SERVER \FRMA_00n.



2.6 Create data exchange directory and enable for network operation (Windows)

Machines equipped with a T8 control unit need a subdirectory on the network PC for exchanging data with the GiS software. Create a directory named ZSK on the PC's hard disk with the Windows Explorer. The path to the directory is irrelevant, but it must be named *ZSK*. *The ZSK directory must also contain a subdirectory named* MUSTER ("designs"). Notes on creation:

2.6.1 For GiS BasePac software on PC

With one machine:

- \Rightarrow The directory c:**zsk****muster** is to be created.
- \Rightarrow The ZSK directory (c:\zsk) is to be enabled for network operation.

With n machines:

➡ For machine 1: the directory c:\mach_001\zsk\muster is to be created (directory for Machine_001).

For machine n: the directory c:*mach_00n***zsk****muster** is to be created.

 $\Rightarrow The ZSK directories (c:\mach_00x\zsk [with x = 1...n]) must be enabled for network operation with$ **different**share names.



2.6.2 For GiS Production Manager software on PC

The directories can be created in exactly the same way as when using the GiS BasePac software with n machines. However, the directories should additionally be created in a main directory, e.g. c:\prodman\... (for **Prod**uction-**Man**ager). This would then look as follows:

For machine 1:	the directory c:\prodman\ <i>mach_001</i> \ zsk\muster is to be created.

For machine n: the directory c:\prodman $mach_00n$ **zsk\muster** is to be created.

The ZSK directories (c:\prodman\mach_00x\zsk [with x = 1...n]) must be enabled for network operation with **different** share names.

To sum up, the following parameters are to be set for allowing access to the directory/directories:

- Share name: Any text not exceeding 15 characters (A...Z, a...z, 0...9) (use **different** share names).
- Access rights: Set up full access, i.e. write and read access rights.
- Access authority: If a user account has been set up as described in section *Nec-essary operating system settings (Windows)* (Net User), grant access authorization for this account. Alternatively, if a guest account is used, leave the access authorization setting on *Everyone*.





Figure 2.29: GiS BasePac File >>> Open...

Figure 2.30: GiS BasePac Select a single design



00491105

In the main menu of the GiS BasePac software:

The following descriptions are based on a GiS BasPac21 Version 4.03.

- Select the *File* menu item and then the *Open* ... option.
- Move the mouse pointer to the dialog's title bar and click the right mouse button.

⇒ The menu that appears allows you to set the parameters for accessing the ZSK memory.

2.7 Set up the access path for the GiS software

to the data exchange directory

Drive	⊻erschieben XSchließen Alt+	•F4 🔀			
C: HARDDISK	Change the directory for temporary files Change the ZSK-Memory directory	De	signs	Date	4
R:	Color settings	•			
@: Import	EPC-Connection ✓ Access to the ZSK-Memory				
	Select drives for searching only DOS Disk format		52		7
A Number N	Double click on a design = show header ✓ Double click on a design = 0K	/pe	Stitches	Backup	<u></u>
	Directory export Directory print				
	marked Pictograms export				
	Version 4.04				
					Y
≝ 491102					

Figure 2.31: GiS BasePac Parameter setting Accessing ZSK memory



- First select the menu item Change the ZSK Memory directory.
 - ⇒ This opens a window in which you can define the access paths for ZSK memory directories.



If the list in the large window does not contain the path *c:\zsk\muster*, take the following action:

- In the smaller window at the top, enter *c:\zsk\muster* and confirm with Add.
- Exit the window by clicking **OK**.

NOTE

Figure 2.32:

GiS BasePac

Paths to ZSK memories

The access path you enter here must correspond exactly to the location of the data exchange directory you created and enabled earlier when installing the network. In this context also observe the remarks in the Subsection entitled 2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software).

• In the *Select a single design* dialog, open the menu once again by clicking the right mouse button.

Figure 2.33:	
GiS BasePac	
Select a single design	

X <u>S</u> chließen	Alt+F4
Change the directory for temporary files	
Change the ZSK-Memory directory	
<u>C</u> olor settings	
EPC-Connection	
✓ Access to the ZSK-Memory	
Select drives for searching	
only DOS Disk format	
Double click on a design = show header	
Double click on a design = OK	
Directory export	
Directory print	
marked Pictograms export	
Version 4.04	

- Now check whether the menu item *Access to the ZSK memory* is ticked.
- If it is not ticked, click the option with the left mouse button to enable it.

Once this setting is adopted, monograms and designs created with GiS BasePac can be saved directly to the ZSK memory (the data exchange directory).

A machine with a T8 control unit can subsequently load the designs contained in this data exchange directory via the network.



Figure 3.1:

memory

GiS BasePac

Saving designs in the ZSK

3. Network operation with GiS BasePac software

3.1 Normal operation

3.1.1 Saving designs in the data exchange directory

Create a design with the desired parameters on the network PC with the BasePac software:



To save the design in the data exchange directory,

• click on the **[ZSK]** button.

or

- In the *File* menu, select the *Save in ZSK-Memory* option.
- or
- Use the **[CTRL]+[1]** shortcut.

In the *Saving options* dialog, define the start and end points of the design:

- Enable desired options.
- Confirm the dialog with **[OK]**.



starting point	ending point
C original	C original
	C at Starting poin
cc	o
1	
ċċ	• — • — •
	C Additional path
	X: 0 mm
	Y: 0 mm

00491104



Figure 3.3: GiS BasePac, assigning design number

Filename	Name	Stitches	Date
00000000.Z00	Jürgen	9615	5.01.1
00000000.Z01	Möseltierchen	31941	13.01.1
00000000.Z02	A02 METZLER TEST	1940	28.01.1
00000000.Z03		290	28.01.1
00000000.Z04	bout of africa	155411	28.01.1
000 Assign desi	an number	- 69 - 198. - 198	× I
000			1
000			1
000 Numbe	er: 39	unused num	ber 1
000			þ
000 Versio	n: 0	unused vers	ion 1
000 Versio	n: jo	unuscu vers	
000	F .		— Þ
000 Name:	Test		1
000			1
000		1	1
000	UK	Cancel	h

- In the *Assign design number* dialog, confirm the defaulted design number with **[OK]**.
 - \Rightarrow The created design is saved in the ZSK memory under this number.
- You can enter a different design number and name if you wish.

3.1.2 Connection from the T8 control unit to the data exchange directory

To make a connection to the data exchange directory, a choice of 2 variants is available.

Variant 1

ZSK	Machine	23.02.2007 13:46
		\$ -@
*		
		0 / 0
		V 1
		1 2 3 4 5 6 7 8 9 10 11 21 14 15 1 2 0 4 5 6 7 8 9 10 11 11 11 11
****		0 RPM
	Machine standstill	
*		
02060005		

• Press [R1] Select machine design.

Figure 3.4: T8 control unit, machine basic screen



Figure 3.5: T8 control unit, machine basic screen Variant 1

ZSK	Machine	26.02.2007	13:23
			\$ -∰
*			÷0
		0 / 0	(((()))
		V 1	Ì!
		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 2 0 4 5 6 7 8 9 10 11 11 11 11 11	
***		0 RPM	
		№ <i>B</i> V	
	Machine standstill		
02060023			

• Press [U5] Select design from network key .

Border frame - silk stitch No.: 002 Vers.: 00	>>	Border						Vers.:	
		Border	frame -	• silk	stitch	No.:	002	Vers.:	00
Confirm	C				Conf				

- In the *Check pantograph configuration* dialog, enter the machine setup used with the cursor keys.
- Select with the [L8], [R8] or [OK] keys.

Figure 3.6: T8 control unit, check pantograph configuration



Machine

Machine standstill

01102788 02073410 01005278 23.02.2007 13:46

0/0

! 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 2 0 4 5 6 7 8 9 10 11 11 11 11 11

0 RPM

🔹 🕭 🎙

\$→@

4 **•** • •

ļ ţ

<mark>*</mark>]

2

MORE

0

Variant 2

ZSK

80 84

÷\$

9999 9999

8

*

٠

Press [L4] Design manager.

*

NOTE

Variant 2 is not available in Simple operation mode.

Figure 3.7: T8 control unit, machine basic screen

Figure 3.8: T8 control unit, Disk/memory/network/ USB device, Variant 2

	Disk / memory / m	etwork / 0.	SB GEVICE
	Load from disk	-	Write data to disk
(1)	Load from USB device	.	Write to USB device
	Load via network		Write to network
	Delete design on disk		Format disk
(191 ⁻)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1	Delete from USB device	a • a	Initialize memory
_ ;	Delete from network	9 • 9	Copy within memory
9- %	Delete from memory	→]	Previous
2060024			

• Press [L3] Load design from network key.

NOTE



Figure 3.9: T8 control unit, network connections If a connection has already been set up on the T8 control unit, it will now be displayed and can be used. Otherwise, a new connection can be set up as follows:

	connections
Select existing connection:	
No entry available	
Set up new connection	Delete entry
Set up new connection	Delete entry
Set up new connection	Delete entry Previous

• Press [L7] Set up new connection button.

For connection purposes, enter the computer name [Section 2.1 Necessary operating system settings (Windows)] and the share name [Section 2.6 Create data exchange directory and enable for network operation (Windows)] of the directory being connected, or the computer name on its own as follows:

Variant 1

	Enter net connection name as follows:	
a		z
b		У
c	Server or \\Server\SharedDirectory	x
d		W
e	\\GISPC\FRZSK	v
f		u
g	TAB Switching to other characters	t
h	Delete character left of cursor	s
i j	k 1 m n o p q	r

Press the **[OK]** button to create the connection.

Figure 3.10: T8 control unit, enter net connection name as follows, \\Computer name\ Share name

Variant 2

Figure 3.11: T8 control unit, enter net connection name as follows, Computer name

Figure 3.12: Select T8 control unit, Select newnetwork connection

Bitter het connection name as forrows.	
a	z
b	У
c Server or \\Server\SharedDirectory	×
a	w
e (\\GISPC	v
ſ	u
g TAB Switching to other characters	t
h Delete character left of cursor	s
i j k l m n o p q	r

- Press the **[OK]** button to display all directories enabled for network operation and visible on the selected PC in the following menu dialog.
 - \Rightarrow Display of enabled and visible directories on the PC named *GISPC*

S	elect new	network connection
\\GISPC\FRMA_001		:
\\GISPC\FRMA 002		:
\\GISPC\FRMA_003		:
\\GISPC\FRZSK		:
1		
Select network connec	ction	Previous
Select network connec	ction	Previous
Select network connec	ction	Previous

• Select the desired directory with the cursor keys and create the connection with **[L8] Select network connection**



The following sequence applies to both variants.

Figure 3.13: T8 control unit, Load network design	Load network design: 00000021.200 ? <td< th=""></td<>
	Select design Previous
	 The design most recently created with the GiS BasePac software is always preselected in the network directory. Alternatively, a different design can be selected for loading with the cursor keys or the other directory operating elements. Press the [L8] Select design key to load/save the selected design.
NOTE	This manual does not go into the remaining menu dialogs for loading designs. Information on this subject is contained in the <i>Quick refer-</i> <i>ence guide T8 control unit</i> .



3.2 Automatic mode, monogram machine

3.2.1 Connection from the T8 control unit to the data exchange directory



• Press [R1] Select machine design .



• Press the [U6] Activate operating mode monogram machine button.

Figure 3.14: T8 control unit, machine basic screen

Figure 3.15: T8 control unit, machine basic screen



Figure 3.16: T8 control unit, network connections If a connection has already been set up on the T8 control unit, it will now be displayed and can be used. Otherwise, a new connection can be set up as follows:

No entry available	.on:
Set up new connection	Delete entry
Set up new connection	Delete entry
Set up new connection	

Press [L7] Set up new connection button.

For connection purposes, enter the computer name [Section 2.1 Necessary operating system settings (Windows)] and the share name [Section 2.6 Create data exchange directory and enable for network operation (Windows)] of the directory being connected, or the computer name on its own as follows:



0.17.		
rol unit,	Enter net connection name as follows:	
t connection name	a	
ws, uter name∖	b	•
ame	c Server or \\Server\SharedDirectory	
	d w	-
	e (\\GISPC\FRZSK v	•
	ſ u	
	g TAB Switching to other characters t	
	h DEL Delete character left of cursor s	
	i j k l m n o p q r 02060027	

Press the **[OK]** button to create the connection.

Figure 3.17: T8 contr enter ne as follow \\Compi Share na

Variant 2

Figure 3.18: T8 control unit, enter net connection name as follows, Computer name

Figure 3.19: Select T8 control unit, Select newnetwork connection

	Enter net connection name as follows:	
a		z
b		У
c	Server or \\Server\SharedDirectory	×
d		w
e		v
f		u
g	TAB Switching to other characters	t
h	Delete character left of cursor	s
i j 02060028	k 1 m n o p q	r

- Press the **[OK]** button to display all directories enabled for network operation and visible on the selected PC in the following menu dialog.
 - \Rightarrow Display of enabled and visible directories on the PC named *GISPC*

S	elect new	network connection	
\\GISPC\FRMA_001		:	
\\GISPC\FRMA 002		:	
\\GISPC\FRMA 003		:	
\\GISPC\FRZSK		:	
1			
Select network connec	ction	Previous	
Select network connec	ction	Previous	
Select network connec	ction	Previous	

• Select the desired directory with the cursor keys and create the connection with **[L8] Select network connection**



NOTE

The following sequence applies to both variants.

⇔ The display area changes to the machine basic screen once the connection has been created. The active monogram machine mode is indicated by a symbol in this display.



⇔ The machine awaits the transfer of a design by the GiS BasePac or GiS Production Manager software.

Figure 3.20: T8 control unit, machine basic screen

3.2.2 Saving monogram in ZSK ring buffer

Create a monogram with the desired parameters on the network PC with the BasePac software.

.#GiS BasePac'21 ∀4.04 ZSK Machine - 0.00 *	To 1
File Edit Display Block Settings Picture Drawing Layout	mac
✓ 1 G _F Helvetica ▼ 20.0	• e
	b
	or
Test	• In <i>S</i> S
00491101	or

To transfer the monogram to the machine:

- either click on the **[Embroider]** button
- In the *File* menu, select the *Save in ZSK-Memory* option. Select *Save in MSCI ring buffer*
- Use the [CTRL]+[2] shortcut.
- In the following *Saving options* dialog, define the start and end points of the monogram, and confirm with **[OK]**.

If the machine is not currently processing a design, the design is immediately transferred to the machine ready for execution by way of the operating lever.

If the machine is busy processing another design, the design remains in the ring buffer until the machine reaches the end of the current design. The first design in the ring buffer is then automatically assigned to the machine.

While the machine is embroidering, up to 99 further designs can be committed to the ring buffer. These designs are executed by the machine in the sequence in which they were created.

The GiS BasePac software contains a dialog that lists all of the designs transferred to the machine for execution.

Figure 3.21: GiS BasePac basic screen




Network operation with GiS BasePac software

Figure 3.22: GiS BasePac Ring buffer



Design name	Date
Desgin 1	30.04.2002 / 16:11
vtr. President	30.04.2002 / 16:11
Hallo World	30.04.2002 / 16:12
ZSK	30.04.2002 / 16:12
GiS	30.04.2002 / 16:12
Delete	Delete all

00491113

- This ring buffer display is accessed by means of the button displayed on the left.
 - ➡ Click the button in this window to obtain a list of the designs currently saved in the *ring buffer*:



Network operation with GiS BasePac software



4. Windows 95/98/ME

4.1 Necessary operating system settings

NOTE

For this installation routine you need the original CD-ROM containing the Windows operating system.

The procedure described here applies to Windows 95/98/ME. The individual steps and screenshots that you will encounter may differ, depending on the computer configuration and operating system version.

The operating system may have to be restarted between individual steps of the installation routine.



Figure 4.1: Windows 95/98/ME, Network Neighborhood Properties, context menu

Figure 4.2: Windows 95/98/ME, Network

Figure 4.3: Windows 95/98/ME, Networking components

4.1.1 Setting up the TCP/IP protocol



work		
onfiguration Identific	ation Access Co	ntrol]
The following network	k components are	installed:
📃 Client for Microso	ift Networks	
Macronix MX987	xx Family Fast Ethe	ernet Adapter (ACPI)
VetBEUI		
TCP/IP		
🛃 File and printer st	naring for Microsoft	: Networks
1		
Add	Remove	Properties
800	<u>Hemove</u>	
Primary Network Log	on:	
Client for Microsoft N	letworks	
	1	
<u>File</u> and Print Sha	aring	
Description		
TCP/IP is the proto wide-area networks		nnect to the Internet an
		OK Car



- Move the mouse pointer to the *Network Neighborhood* symbol and click the right mouse button. In the context menu that is displayed, enable the *Properties* option with the left mouse button.
- Here you can check whether the TCP/IP protocol is already installed.
- In this example the protocol is already installed. You can check the existing settings by selecting *TCP/IP* in the list of components and then clicking *Properties*.
- If TCP/IP is missing from the list of components, the protocol has not been installed.
- To do this, click on the **[Add...]** button.
- Mark the entry *Protocol*.
- Click on [Add...].



Figure 4.4: Windows 95/98/ME, Network



- In the window labeled *Manufacturers*, select *Microsoft*.
- In the window labeled *Network Protocols*, select *TCP/IP*.
- Confirm the selection with **[OK]**.
- ⇒ This takes you back to the *Network* dialog. The list of components should now contain an entry for *TCP/IP*.
- In the *Network* dialog, select *TCP/IP* in the list of components and then click *Properties*.

CP/IP Properties		?
Bindings	Advanced	NetBIOS
DNS Configuration	Gateway WINS Con	figuration IP Address
If your network do	n be automatically assign bes not automatically assig inistrator for an address, a	gn IP addresses, ask
◯ <u>O</u> btain an IF	address automatically	
Specify an I	P address:	
<u>I</u> P Address	192.168. 0	•
S <u>u</u> bnet Ma	sk: 255.255.25	5.0
	0	K Cancel

- Select the *IP address* tab.
- Enable the option *Specify an IP address*.
- Enter the *IP address*.

For small networks, use *192.168.0.x*, replacing the x with a different number between 1 and 254 for each network user.

Enter **255.255.255.0** as the **Subnet Mask**.

When assigning the IP address, note the remarks in Subsection 2.1 Necessary operating system settings (Windows) as well.

The settings on all the other tabs are correct when the TCP/IP protocol is configured for the first time. For verification purposes, the default settings are illustrated below:

Figure 4.5: Windows 95/98/ME, TCP/IP Properties









- Check all settings.
- Confirm the *Properties of TCP/IP* dialog with the **[OK]** button.
 - ⇒ The *Network* dialog appears again.



Configuration Identific	ation Access Cont	rol
The following networ	k components are in	stalled:
 Client for Microso Macronix MX987 NetBEUI TCP/IP 	oft Networks 'xx Family Fast Ethen	net Adapter (ACPI)
📑 File and printer s	haring for Microsoft N	letworks
<u>A</u> dd	<u>R</u> emove	Propertie
Primary Network Log	on:	
Client for Microsoft N	letworks	
Eile and Print Sha	aring	
Description TCP/IP is the proto wide-area networks	icol you use to conni s.	ect to the Internet
		ок с

- Select the *Identification* tab.
- Enter computer name.



4.1.2 Setting up File and Print Sharing

Client for Micros	oft Networks 7xx Family Fast Etherne	alled:
NetBEUI	r with dinny that E the inc	
🛃 File and printer s	sharing for Microsoft Ne	tworks
<u>A</u> dd		Properties
rimary Network <u>Log</u>	j jon:	, <u> </u>
Client for Microsoft I	Networks	
<u>F</u> ile and Print Sh	aring	
and Print Shari	ng	?
I want to be able	to give others access I	o my <u>f</u> iles.

- Select *File and Print Sharing*.
- Enable the option *I* want to be able to give others access to my files.
- Exit the dialog with **[OK]**.

Sharing

Figure 4.13: Windows 95/98/ME, Network, File and Print The *Network* dialog must contain an entry for *Client for Microsoft Networks*. If this entry is not there:

• Press the [Add...] button in the Network dialog.

Click the type of network com	Add
Adapter Protocol Service	Cancel
Select Network Client	Client that you want to install, then click OK. If you h
	< for this device, click Have Disk.
Manufacturers:	Network Clients:
Banyan	Client for Microsoft Networks Client for NetWare Networks
Aicrosoft	
Microsoft Svovell SunSoft	
🔜 Novell	Have Dist

- Then in the dialog Select Network Component Type, mark the Client entry and press [Add].
- In the dialog *Select Network Cli* ent mark the manufacturer *Mi*crosoft and the Network Client *Client for Microsoft Networks*.
- Click **[OK]** to confirm the selections and initiate the installation routine.

Checking properties of the Client for Microsoft Networks:

• In the *Network* dialog, mark the entry for *Client for Microsoft Networks* and click the *Properties* button.

Logo	on validation
LE	Log on to Windows NT domain
	When you log on, your password will be verified on a Windows NT domain.
	Windows NT domain:
Netv	vork logon options
0	Quick logon
	Windows logs you onto the network, but network drives are not reconnected until you use them.
	Logon and restore network connections
	When you log onto the network, Windows verifies that each network drive is ready for use.

- Check the settings and click **[OK]** to close the dialog.
- Also close the *Network* dialog by clicking **[OK]**.

Figure 4.14: Windows 95/98/ME, Network, Select Network Component Type, Select Network Client

Figure 4.15: Windows 95/98/ME, Network, Client for Microsoft Networks Properties



Configuration Ider	tification Access Control
comput comput	ws uses the following information to identify you er on the network. Please type a name for thi rer, the workgroup it will appear in, and a short tion of the computer.
Computer name:	GISPC
Workgroup:	Stickerei
Computer Description:	PC zur Erstellung von Monogrammen
	OK Cano

- Enter a unique *Computer name* and an identical *Workgroup* identifier for all network users.
- In this context also observe the remarks in Subsection 2.1 Necessary operating system settings (Windows).
- An optional field is provided for additional text describing the computer.
- The select the *Setting up File and Print Sharing* tab.

Figure 4.16: Windows 95/98/ME, Network, Client for Microsoft Networks Properties



4.1.5 System-specific settings

Enabling access control for network resources

Figure 4.17: Windows 95/98/ME, Network, Client for Microsoft Networks Properties

Configuration Identification	n Access Control	
resource. C User-level acces Enables you to s access to each	ess control upply a password for each s	
	ОК	Canc

- Enable the option *Share-level access control*.
- Go back to the *Configuration* tab.



4.2 Create data exchange directory and enable for network operation

Various options are available for creating a new directory and enabling it for the network. For reasons of simplicity, one method of creating the data exchange directory on hard disk C is described below:

• From the *Start* menu, select the *Run* ... option:

		ame of a pro will open it for	gram, folder, o uou	or documer	it, and
		will open it for	you.		
Open:	command				
	-		1		
		OK	Cancel	Br	owse

In the dialog that appears, enter *cmd* and confirm with **[OK]**.



• To create the directories, enter the following commands and, in each case, confirm with **[RETURN]**.

mkdir c:\zsk

mkdir c:\zsk\muster

Figure 4.18: Windows 95/98/ME, run...

Figure 4.19: Windows 95/98/ME, MS-DOS prompt





• Click the left mouse button to select the *ZSK* directory and then click the right mouse button.

Open

Explore

Se<u>n</u>d To Cu<u>t</u>

<u>C</u>opy Create <u>S</u>hortcut

<u>D</u>elete Rena<u>m</u>e P<u>r</u>opertie

Netlog

Ξ

• In the displayed context menu, select *Sharing...*.

Win95cd

(SB)

00491500

Windows

nmand.co

-

Displays the properties for sharing the sele



Figure 4.22: Windows 95/98/ME, Zsk Properties, Sharing tab

Properties	
General Sharing	
O Not Shared	
🕞 Shared As:	
Share <u>N</u> ame: FRZSK	
Comment:	
Access Type:	
C Read-Only	
• Eul	
Depends on Password	
Passwords:	
Read-Only Password:	
Full Access Password:	
OK Cano	el <u>A</u> pply

- Enable the options *Shared As* and *Access Type Full*.
- Do <u>not</u> enter any **Passwords**.
- The suggested share name **ZSK** is to be changed to **FRZSK** in this example.
- Confirm the settings by clicking [Apply] and then [OK].

The ZSK directory on hard disk C can now be accessed by another PC via the network. This is illustrated by the change in the directory symbol in the overview of files and directories on hard disk C.





- Not enabled for network:

- Enabled for network:

ATTENTION

If the PC is sometimes used to access the Internet as well, all the network enables for directories are to be cancelled while you are using the Internet.

Otherwise, the directories enabled on the PCs are also visible and accessible from the Internet.

Unless the directories are disabled, Internet users with the necessary software and knowledge can gain access to designs stored on your PC.

You can cancel the enable by following the procedure that applies for enabling. (in the dialog for enabling the directory, mark the option *Not Shared* and confirm.)

If several data exchange directories are required (e.g. for the Production Manager software), the steps described in this Subsection have to be repeated. In this context also observe the remarks in Subsection 2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software.



NOTE

Figure 5.1:

button

Windows XP,

Context menu of the Start

Windows XP Home Edition

5. Windows XP Home Edition

5.1 Necessary operating system settings

The individual steps and screenshots that you will encounter may differ, depending on the computer configuration. The operating system may have to be restarted between individual steps of the installation routine.

The description and screenshots below are based on the classic appearance of the Windows Start Menu.



Start Men

O Start meni

00491639

Select this menu style for easy access to the Internet, e-mail, and your favorite programs.

 Classic Start menu Select this option to use the menu style from earlier versions of Windows.

OK Cancel

Select the desired appearance:

- Position mouse on the **[Start]** button.
- Press the right mouse button and select the *Properties* option in the displayed context menu.
- In the dialog *Taskbar and Start Menu Properties* enable the option *Classic Start menu*.
- Confirm the dialog with **[OK]**.

- My Computer 00491602
- ➡ The symbols for *My Computer* and *My Network Places* are now visible on the Windows Desktop (basic screen). The classic start menu has now been activated.

Customize...

Figure 5.2: Windows XP, Taskbar and Start Menu Properties



In the context menu

select Properties.

5.1.1 Setting up the TCP/IP protocol

Open

Explore Search..

Manage

Map Network Drive... Disconnect Network Drive... Create Shortcut Delete Rename Properties

• Select the *My Network Places* symbol with the mouse pointer and click the right button.

•



Figure 5.3: Windows XP, Network connections



- Position the mouse on the entry *Local Area Connection*.
- Press the right mouse button.
- In the menu that appears, select *Properties*.



Windows XP Home Edition

Figure 5.4:
Windows XP,
Local Area Connection
Properties

Figure 5.5:
Windows XP,
Internet Protocol (TCP/IP)
Properties

 Ose the following DNS server Preferred DNS server: 		
-		
<u>A</u> lternate DNS server:		
	Ady	anced
	ОК	Canc
91614		
91614		
01614		
91614		
91614		
91614		
91614		
91614		

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator fo the appropriate IP settings.

Obtain an IP address automatically

O Use the following IP address:

IP address:

Sybnet mask

nschaften von LAN-Verbindun

ein Authentifizierung Erweitert

/erbindung herstellen unter Verwendung von: IIII 3Com 3C905B-COMBO-Ethernetadapter (Standard)

se ⊻erbindung verwendet folgende Elemente:

Symbol bei Verbindung im Infobereich anzeigen

Installieren... Deinstallieren Eigenschaften Beschreibung Ermöglicht den Zugiff auf Ressourcen in einem Microsricht Autzuark

Client für Microsoft-Netzwerke
 Datei- und Druckerfreigabe für M

□ 📮 QoS-Paketplaner ☑ 🐨 Internetprotokoll (TCP/IP)

00490612

Konfigurieren...

OK Abbrechen

- With the mouse select and activate *Internet Pro-tocol (TCP/IP)*.
- Then press the button **Properties** in order to configure the TCP/IP protocol.

- Enable the option *Use the following IP address*.
- Enter the *IP address*.

For small networks, use 192.168.0.x, replacing the x with a different number between 1 and 254 for each network user.

Enter 255.255.255.0 as the *Subnet mask*.

When assigning the IP address, note the remarks in Subsection 2.1 Necessary operating system settings (Windows) as well.

Check the advanced TCP/IP settings with *Advanced* ...:

⇒ The previously entered IP address 192.168.0.x should already be visible on the tab labeled *IP Settings*. (see above)

Figure 5.6: Windows XP, Advanced TCP/IP Settings

 IP-Einstellungen
 DNS
 WINS
 Optionen

 IP-Adressen
 IP-Adresse
 Subnetzmaske

 192...
 255.255.255.0

 Hinzufügen...
 Entfernen

 Standardgateways:
 Gateway
 Metrik

 Gateway
 Metrik
 Entfernen

 V Automatische Metrik
 Schrittstelernnerik
 IM

 DK
 Abbrechen

 00490624



The settings on all the other tabs are correct when the TCP/IP protocol is configured for the first time after Windows XP Home Edition is installed.

For verification purposes, the default settings are illustrated below:

DNS tab:



Windows XP Home Edition



Figure 5.9: Windows XP, Advanced TCP/IP Settings, Options	Options tab
Figure 5.10: Windows XP, Advanced TCP/IP Settings, Options, Properties	<text><text><image/></text></text>
	 After checking all settings, use [OK]to exit from <i>Advanced TCP/IP Settings</i>.



Figure 5.11: Windows XP, Local Area Connection Properties, General

Ilgemein	Authentifizierung	Erweitert			
Verbindu	ng herstellen unter '	Verwendung	von:		
11 30	om 3C905B-COMB	0-Ethernetad	apter (Sta	ndard)	
	binduna verwende			onfigurierer	1
⊻ ¥	QoS-Paketplaner Internetprotokoll (T llieren	CP/IP) Jeinstallieren		jgenschaft	en
	eibung licht den Zugriff auf oft-Netzwerk.	f Ressourcen	in einem		
Symb	ol bei Verbindung in	n Infobereich	anzeigen		
_		_	ОК	Abbr	

Authentication tab

• Select the *Authentication* tab and check the settings illustrated alongside.

ieneral	Authentication	Advanced
Select wired a	this option to pro- nd wireless Ether	vide authenticated network access for net networks.
🗹 Ena	ble network acc	ess control using IEEE 802.1 \times
EAP typ	be: Smart Card	or other Certificate
Auti		puter when computer information is availat st when user or computer information is

Figure 5.12: Windows XP, Local Area Connection Properties, Authentication



Advanced tab

• Then select the *Advanced* tab and, as before, check the settings.

Figure 5.13: Windows XP, Local Area Connection Properties, Advanced



• Go back to the *General* tab.



5.1.2 Setting up File and Print Sharing

In the Local Area Connection Properties dialog:

- Enable the entry *File and Print*er Sharing for Microsoft Networks.
- If this entry is not among the listed items, it has to be added via *Install* ... and *Service*.

5.1.3 Installing Client for Microsoft Networks

In the same place, in the Local Area Connection Properties dialog,

Ctient for Microsoft Networks Properties

Network T8 Control Unit - Version 2.0

- also enable *Client for Microsoft Networks*.
- Click on *Properties* and then check the *Name service provider* setting.
- If *Client for Microsoft Networks* is not among the listed items, it has to be added via *Install* ... and *Client*.

Windows XP, Local Area Connection Properties, General

Figure 5.14:

Figure 5.15: Windows XP, Local Area Connection Properties











5.3 Create data exchange directory and enable for network operation

Various options are available for creating a new directory and enabling it for the network. For reasons of simplicity, one of the methods is described below:

• From the *Start* menu, select the *Run* ... option:



• In the window that appears, enter *cmd* and confirm with **[OK]**.



To create the data exchange directory, enter the following commands and, in each case, confirm with **[RETURN]**.

mkdir c:\ZSK

mkdir c:\ZSK\MUSTER

- ⇒ A directory named *ZSK* and a subdirectory named *MUSTER* are thus created on hard disk C.
- Close the MS-DOS Prompt by clicking the cross symbol at the top right of the screen.

Figure 5.22: Windows XP, Start Menu, Run

Figure 5.23: Windows XP, MS-DOS prompt



Figure 5.24:

Windows XP,

Control Panel, User Accounts • To enable the ZSK directory for the network, double-click the *My Computer* symbol on the Desktop:



- In the My Computer dialog, click the symbol for hard disk C:
 - ⇒ The overview of files and directories on hard disk C appears on the screen. (By way of a security response, you may be required first of all to confirm Show the contents of this folder.))
- Mark the *ZSK* directory with the left mouse button and then click the right button to start the short-cut menu.
- In the menu that appears, select *Sharing and Security...*

Figure 5.25: Windows XP, Control Panel, User Accounts



Windows XP Home Edition

The middle part of the dialog differs according to the current status:





Figure 5.30: Windows XP, zsk Properties



To enable the ZSK directory or folder:

- mark the options Share this folder on the network and Allow network users to change my files.
- The suggested share name *ZSK* is to be changed to *FRZSK* in this example.
- Confirm the settings by clicking *Apply* and then *[OK]*.

The **ZSK** directory on hard disk C can now be accessed by another PC via the network. This is illustrated by the change in the directory symbol in the overview of files and directories on hard disk C.

- Network enabled

- Network not enabled

If the PC is sometimes used to access the Internet as well, all the network enables for directories are to be cancelled while you are using the Internet.

Otherwise, the directories enabled on the PCs are also visible and accessible from the Internet.

Internet users with the necessary software and knowledge could gain access to designs stored in an enabled directory.





ATTENTION

You can cancel the enable by following the procedure that applies for enabling.

• Cancel the marked option, *Share this folder on the network*, and confirm.

If several data exchange directories are required (e.g. for the Production Manager software), the steps described in this Subsection have to be repeated. In this context also observe the remarks in Subsection 2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software.



Windows XP Home Edition



NOTE

6. Windows NT 4.0/2000/XP Professional

6.1 Necessary operating system settings

The necessary settings are very similar for the operating systems mentioned. The steps described below apply to the Windows 2000 version. If using Windows XP Professional, switch to classic view first.

The individual steps and screenshots that you will encounter may differ, depending on the computer configuration and operating system version.

The operating system may have to be restarted between individual steps of the installation routine.

• If using *Windows XP Professional*, proceed as follows to switch to the classic start menu:



Select the desired appearance:

- Position mouse on the **[Start]** button.
- Press the right mouse button and select the *Properties* option in the displayed context menu.
- In the dialog *Taskbar and Start Menu Properties* enable the option *Classic Start menu*.
- Confirm the dialog with **[OK]**.

Figure 6.1: Windows 2000, Context menu of the Start button

Figure 6.2: Windows 2000, Taskbar and Start Menu Properties







Figure 6.3: Windows 2000, Context menu of the Start button

Figure 6.4: Windows 2000, Network connections ⇒ The symbols for *My Computer* and *My Network Places* are now visible on the Windows Desktop (basic screen). The classic start menu has now been activated.

6.1.1 Setting up the TCP/IP protocol



- Position the mouse on the symbol
 - *My Network Places* and press the right mouse button.
- In the menu select *Properties*.



- Position the mouse on the entry *Local Area Connection*.
- Press the right mouse button.
- In the menu that appears, select the *Properties* option.



Windows NT 4.0/2000/XP Professional

Figure 6.5: Windows 2000, Local Area Connection Properties

eneral		
Connect using:		
CNet PR020	0 PCI Fast Ethernet Adap	ter
Components checke	ed are used by this connec	Configure
	ine Network Services ter Sharing for Microsoft N otocol	letworks
	Uninstall	Properties
Install	Uninstall	Topences
Install Description		Topentes
Description	uter to access resources of	

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Γ

192.168.0.2

255 . 255 . 255 . 0

OK

Advanced.

Cancel

et Protocol (TCP/IP) Pr

Obtain an IP address automatically
 Use the following IP address:

Use the following DNS server addresses

General

IP address:

Subnet mask: Default gateway:

Preferred DNS server

Alternate DNS server:

02060040

Figure 6.6: Windows 2000, Internet Protocol (TCP/IP) Properties

Figure 6.7:	
Windows 2000,	
Advanced TCP/IP Settin	igs

IP address			
192.168.0.2		Subnet mask 255.255.255.0	
	Add	Edit	Remove
Default gateways: - Gateway		Metric	
	Add	Edt	Remove
nterface metric:	1	-	

- With the mouse *Internet Protocol (TCP/IP)* select and enable.
- Then press the button [Properties] in order to configure the TCP/IP protocol.

- Enable the option *Use the following IP address*.
- Enter the *IP address*.

? ×

For small networks, use 192.168.0.x, replacing the x with a different number between 1 and 254 for each network user.

Enter 255.255.255.0 as the *Subnet mask*.

When assigning the IP address, note the remarks in Subsection 2.1 Necessary operating system settings (Windows) as well.

- Check the advanced TCP/IP settings with *Advanced* ...:
 - ⇒ The previously entered IP address 192.168.0.x should already be visible on the tab labeled *IP Settings*. (see above)



The settings on all the other tabs are correct when the TCP/IP protocol is configured for the first time after Windows is installed.

For verification purposes, the default settings are illustrated below:

DNS tab:








Figure 6.13:

Properties,

General

Windows 2000,

Local Area Connection

6.1.2 Setting up File and Print Sharing

• In the Local Area Connection Properties dialog:



- Enable the entry *File and Printer Sharing for Microsoft Networks*.
- If this entry is not among the listed items, it has to be added via *Install* ... and *Service*.

6.1.3 Installing Client for Microsoft Networks

• In the same place, in the Local Area Connection Properties dialog,

nt for Microsoft Nel	tworks Properties	Ľ
PC Service		
The name service prov the Remote Procedure	rider and network address can be changed for Call (RPC) service.	
Name service provider		
Windows Locator		
Network address:		

- Enable the entry *Client* for Microsoft Networks.
- Click on *Properties* and then check the *Name service provider* setting.
- If the entry *Client for Microsoft Networks* is not among the listed items, it has to be added via *Install* ... and *Client*.

Figure 6.14: Windows 2000, Client for Microsoft Networks Properties Connection



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٠

6.1.4 Defining identifiers: computer names and workgroups



Figure 6.15: Windows 2000, System properties, network identification

Figure 6.16:	
Windows 2000,	
System Properties,	
Identification Changes	





GISPC

02060050

Select tab Network Identification and, if necessary, click on Properties.

Position the mouse on the sym-

bol My Computer and press the

In the menu select *Properties*.

right mouse button.

- Identification Changes ? × You can change the name and the membership of this computer. Changes may affect access to network resources. Computer name: Full computer name: GISPC.zsk.local More. Member of C Domain: Workgroup: STICKEREI OK Cancel
- Enter the unique computer name.
 - Confirm the entry with [OK] and ٠ the dialog System Properties also with [OK].
 - Follow the restart instructions issued by the system.



6.1.5 System-specific settings

Windows XP Professional: Disabling simple file sharing

• Double-click the *My Computer* symbol on the Desktop.



Figure 6.17: Windows XP, My Computer, Folder Options



• Under *Tools* click on *Folder Options*.



- Click on the *View* tab and deselect *Use simple file sharing (recommended)* under *Advanced settings*.
- Confirm this setting for all folders by clicking on the *Apply to all folders* option.
- Click **[OK]** to close the dialog.

• Close all other dialogs e.g. with the shortcut [ALT]+[F4].

Figure 6.18: Windows XP, Folder Options, Advanced Settings



6.2 Usingguest and user accounts

6.2.1 Enabling (and disabling) a guest account



circle with a white cross in the middle).

- Position the mouse on the symbol *My Computer* and press the right mouse button.
- In the menuselect *Manage*.

NOTE

Figure 6.19:

Manage

Windows 2000.

My Computer,

🖵 Com Action View ⇒ 🔁 💽 🗙 🗗 🖳 😫 Tree | Full Name Name Description Built-in account for administering the. Administrator 📃 Computer Management (Local) 🐞 System Tools Guest Built-in account for guest access to t... Set Password System Hoose
 System Information
 System Information
 System Information All Tasks Growing Control Contro Control Control Control Control Control Control Control Control Co Delete Rename 🖻 🔝 Local Users and Groups Properties 🔁 Users Group Help 🗄 🎰 Storage Disk Management

As standard, the guest account is deselected (indicated by the red

- Under *Local Users and Groups* select the *Users* directory with the left mouse button.
- Move the mouse pointer to the *Guest* user and click the right mouse button.
- In the menu, select *Properties*.

Figure 6.20: Windows 2000, Computer Management



Windows NT 4.0/2000/XP Professional

- Figure 6.21: Windows 2000, Guest Properties
- Cruest Properties
 ? ×

 General
 Member Of
 Profile

 Image:
 Guest
 Full name:

 Description:
 Built-in account for guest access to the computer/dc

 Image:
 Guest

 Image:
 Guest
 </
- Select the *General* tab, then enable the entries *User cannot change password* and *Password never expires*, and disable*Account is disabled*.
- Press the **[OK]** key to accept entry.



- ⇒ The guest account has been enabled. The settings have now been completed and you can close the dialogs (e.g. with the shortcut **[ALT]+[F4]**).
- Continue with Section 6.3 Creating data exchange directory and enabling for network operation.

Figure 6.22: Windows 2000, Computer Management



Figure 6.23:

Manage

Windows 2000,

My Computer,

6.2.2 Setting up a user account



- Position the mouse on the symbol *My Computer* and press the right mouse button.
- In the menu, select *Manage*.

NOTE

If using a user account, the guest account must be disabled. Details of how to disable a guest account are contained in Section 6.2.1 Enabling (and disabling) a guest account. As standard, the guest account is deselected (indicated by the red circle with a white cross in the middle).



- To create the user account, under *Local Users and Groups* now select the *Users* directory with the right mouse button.
- In the menu that appears, select the New User... option.

Figure 6.24: Windows 2000, Computer Management



Windows NT 4.0/2000/XP Professional

- Figure 6.25: Windows 2000, New User
- Enter a *User name* and a *Password* and enable the entries *User cannot change password* and *Password never expires*.

In this example the user name is *Net-User* and the password is *-Ter-minal-T8*. As an option, the *Full name* can be added, and an additional text describing the account can be entered under *Description*.

- Click on [Create] to create the user account.
- Click [Close] to close the dialog.

📮 Computer Management - 🗆 × <u>Action</u> <u>View</u> ← → 🔁 👿 🗙 😭 😣 Tree Name Full Name Description Administrator Built-in account for administering the... 📃 Computer Management (Local) Guest System Tools Built-in account for guest access to t... Event Viewer Net-Use Set Password Rerformance Logs and Alerts ١. All Tasks 👰 Shared Folders (F) 🏹 Device Manager Delete 🔬 Local Users and Groups Rename 🔄 Users Properties Groups 嵹 Storage Help 🚞 Disk Management 👫 Disk Defragmenter

As standard, the new *Net-User* account should already be a member of the group of users.

- This can be checked by pressing the right mouse button on the user.
- In the menu that appears, select the *Properties* option.

Figure 6.26: Windows 2000, Computer Management



Figure 6.27: Windows 2000, Net-User Properties

General Member	Of Profile	
Member of:		
U sers		
1		
Add	<u>R</u> emove	

- Under the *Member of* tab, in the *Member of*: window, the word *Users* should be displayed.
- The settings are correct and you can close the dialogs (e.g. with the shortcut **[ALT]+[F4]**).



Figure 6.28: Windows 2000, Start menu, Run

6.3 Creating data exchange directory and enabling for network operation

Various options are available for creating a new directory and enabling it for the network. For reasons of simplicity, one of the methods is described below:

Documents Documents Documents Settings Search Help Run Shut Down	Run ? Type the name of a program, folder, document, or Internet resource, and Windows will open it for you. Open: cmd OK Cancel Browse
---	---

- From the *Start* menu, select the *Run* ... option:
- In the window that appears, enter *cmd* and confirm with **[OK]**.



• To create the data exchange directory, enter the following commands and, in each case, confirm with **[RETURN]**.

mkdir c:\ZSK

mkdir c:\ZSK\MUSTER

- ⇒ A directory named *ZSK* and a subdirectory named *MUSTER* are thus created on hard disk C.
- Close the MS-DOS Prompt by clicking the cross symbol at the top right of the screen.

Figure 6.29: Windows 2000, MS-DOS prompt



Figure 6.30:

Windows 2000,

My Computer

• To enable the ZSK directory for the network, double-click the *My Computer* symbol on the Desktop.



• In the *My Computer* dialog, click the symbol for hard disk C:

⇒ The overview of files and directories on hard disk C appears on the screen.

(By way of a security response, you may be required first of all to confirm Show the contents of this folder.)

Documents and Settings	MACH_001	MACH_002	2
MACH_003	Program Files	ZSK	Open Explore Search Enqueue in foobar2000 Play in foobar2000 7-Zip ▶
			Sharing
		G	aFilzip 🕨
			Send To +
			Cut Copy
			Create Shortcut Delete Rename
		-	Properties

- Mark the ZSK directory with the left mouse button and then click the right button to start the shortcut menu.
 - \Rightarrow In the menu that appears, select the entry *Sharing...*.

Figure 6.31: Windows 2000, My Computer, ZSK, Sharing...



The *ZSK Properties* dialog for enabling the directory appears on the screen. Depending on the file system used, the following display appears:

6.3.1 NTFS file system





NOTE

Figure 6.34:

Windows 2000,

Share Permissions

Permissions for FRZSK,

If using a Guest account, all the settings have been completed and you can close all the remaining dialogs e.g. with the shortcut [ALT]+[F4]. Note the remarks at the end of the section.

Permissions for FR2 Share Permissions	sk ?X
Name	Add <u>R</u> emove
Permissions: Full Control Change Read	Allow Deny V
)2060069	OK Cancel Apply

- To share the folder only with specific users, click on [Permissions]. The dialog *Permissions for FRZSK* appears (the same for both NTFS and FAT32).
- Click on [Add].

• In the dialog that appears, click on the name of the desired user, on **[Add]** and then on **[OK]**.

ook in: 📃 GISPC		
Name	In Folder	
2 Administrator	GISPC	
Guest	GISPC	
🛿 Net-User	GISPC	
Add Check Names	-1	

Figure 6.35: Windows 2000, Select Users or Groups



Windows NT 4.0/2000/XP Professional

Figure 6.36: Windows 2000, Permissions for FRZSK, Share Permissions



- The added user must be granted *Full Control*, *Change* and *Read* permissions. Then mark the user *Everyone* with a click on the left mouse button, and delete by clicking on the [Remove] button. Click [OK] to exit the dialog.
 - ⇒ This completes the settings for a FAT32 file system.

The NTFS file system also offers the option of matching the security settings for the directory to the relevant user.

Name	Add
R Everyone	<u>R</u> emove
Permissions:	Allow Deny
Full Control	
Modify	
Read & Execute	
List Folder Contents Bead	
Write	
Advanced	
Allow inheritable permissions fro	

On the *Security* tab, click on [Add...] and (in the same way as with the share permissions) enter the *Net-User* as well as the *User* under which you have logged in on the PC. Again, these users are to be granted the full range of permissions. Then remove the user *Everyone*.

Figure 6.37: Windows 2000, zsk Properties, Security



Figure 6.38:

Security

Windows 2000,

ZSK Properties,

٠

Click **[OK]** to exit the dialog.

⇒ The Security tab in the ZSK Properties dialog appears as follows after successful configuration:



The **ZSK** directory on hard disk C can now be accessed by another PC via the network. This is illustrated by the change in the directory symbol in the overview of files and directories on hard disk C.



ZSK 02059075

ATTENTION

- Network enabled

- Network not enabled

If the PC is sometimes used to access the Internet as well, all the network enables for directories are to be cancelled while you are using the Internet.

Otherwise, the directories enabled on the PCs are also visible and accessible from the Internet.

Internet users with the necessary software and knowledge could gain access to designs stored in an enabled directory.

02060620 fm	11.12.07/Ch.Kx	

You can cancel the enable by following the procedure that applies for enabling.

• Cancel the marked option, *Share this folder on the network*, and confirm.

If several data exchange directories are required (e.g. for the Production Manager software), the steps described in this Subsection have to be repeated. In this context also observe the remarks in Subsection 2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software.



NOTE

7. Windows Vista Business/Enterprise/ Ultimate Edition:

7.1 Necessary operating system settings

The necessary settings are very similar for the operating systems mentioned. The procedure described here applies to Windows Vista Ultimate.

The individual steps and screenshots that you will encounter may differ, depending on the computer configuration and operating system version.

The operating system may have to be restarted between individual steps of the installation routine.

The description and screenshots below are based on the classic appearance of the Windows Start Menu.



Select the desired appearance:

- Position mouse on the **[Start]** button.
- Press the right mouse button and select the *Properties* option in the displayed context menu.
- In the dialog *Taskbar and Start Menu Properties* enable the option *Classic Start menu*.
- Confirm the dialog with **[OK]**.

Figure 7.1: Windows Vista Context menu of the Start button

Figure 7.2: Windows Vista Taskbar and Start Menu Properties







⇔

The symbols for *My Computer* and *My Network Places* are now visible on the Windows Desktop (basic screen).

7.1.1 Setting up the TCP/IP protocol

• Select the *My Network Places* symbol with the mouse pointer and click the right button.



• In the context menu select *Properties*.



• Under Tasks select the entry *Manage network connections*.

Figure 7.3: Windows Vista Network, context menu

Figure 7.4: Windows Vista, Network and Internet Network and Sharing Center



Figure 7.5: Windows Vista, Network and Internet Manage network connections

Figure 7.6: Windows Vista, Local Area Connection Properties, Networking



letworking		
Connect using:		
Marvell Yukon	88E8001/8003/8010	PCI Gigabit Ethernet
This connection use	s the following items:	Configure
QoS Packe File and Prir Internet Pro	nter Sharing for Microso	
 ✓ ▲ Internet Pro ✓ ▲ Link-Layer 	tocol Version 6 (ICP/IF tocol Version 4 (TCP/IF Topology Discovery Ma Topology Discovery Res Uninstall	₽v4) pper I/O Driver
Internet Pro Link-Layer Install Description	tocol Version 4 (TCP/IF Topology Discovery Ma Topology Discovery Re:	2v4) pper I/O Driver sponder Properties

- Position mouse on the entry *Lo-cal Area Connection*.
- Press the right mouse button.
- In the menu that appears, select *Properties*.
- In the following *Status* dialog, press the [Properties] button and continue with the *Local Area Connection Properties* dialog.
- With the mouse select and activate *Internet Protocol Version* 4 (*TCP/IPv4*).
- Then press the button [Properties] in order to configure the TCP/IP protocol.



Figure 7.7: Windows Vista, Internet Protocol Version 4 (TCP/IPv4) Properties, General

General	
	d automatically if your network support need to ask your network administrator
Obtain an IP address auto	matically
Ouse the following IP address	SS:
IP address:	192.168.0.2
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server addres	s automatically
O Use the following DNS service of the service o	ver addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced.
	Advanced

- Enable the option *Use the follow-ing IP address*.
- Enter the *IP address*.

For small networks, use 192.168.0.x, replacing the x with a different number between 1 and 254 for each network user.

• Enter 255.255.255.0 as the *Subnet mask*.

When assigning the IP address, note the remarks in Subsection 2.1 Necessary operating system settings (Windows) as well.

• Check the advanced TCP/IP settings with **Advanced** ...:



The previously entered IP address 192.168.0.x should already be visible on the tab labeled *IP Addresses*. (see above).

The settings on all the other tabs are correct when the TCP/IP protocol is configured for the first time after Windows Vista is installed.

Figure 7.8: Windows Vista, AdvancedTCP/IP Settings, IP Settings



For verification purposes, the default settings are illustrated below: DNS tab: Figure 7.9: Windows Vista Advanced TCP/IP Settings ? X IP Settings DNS WINS Advanced TCP/IP Settings, DNS server addresses, in order of use: DNS t 3 Add... Edit... Remove The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names: Append primary and connection specific DNS suffixes
Append parent suffixes of the primary DNS suffix Append these DNS suffixes (in order): t 7 Add... Edit... Remove DNS suffix for this connection: Register this connection's addresses in DNS Use this connection's DNS suffix in DNS registration OK Cancel 02060087 WINS tab: Figure 7.10: Advanced TCP/IP Settings ? 💌 Windows Vista, IP Settings DNS WINS Advanced TCP/IP Settings, WINS addresses, in order of use: WINS t 1 Add... Edit... Remove If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled. Enable LMHOSTS lookup Import LMHOSTS... NetBIOS setting Default:
 Default:
 Use NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP. Enable NetBIOS over TCP/IP Disable NetBIOS over TCP/IP OK Cancel 02060088 Once you have checked all the settings, click the [OK] button to close the Ad-٠ vanced TCP/IP Settings dialog.



Figure 7.11:

Properties,

Networking

Windows Vista,

Local Area Connection

7.1.2 Setting up File and Print Sharing

• In the Local Area Connection Properties dialog:

- Enable the entry *File and Print*er Sharing for Microsoft Networks.
- If this entry is not among the listed items, it has to be added via *Install* ... and *Service*.

7.1.3 Installing Client for Microsoft Networks

• In the same place of the Local Area Connection Properties dialog:

PC Service	
The name service provider and net the Remote Procedure Call (RPC) s Name service provider:	
Windows Locator	
Network address:	

- also enable *Client for Microsoft Networks*.
- Click on *Properties* and then check the *Name service provider* setting.
- If the entry *Client for Microsoft Networks* is not among the listed items, it must be added via *Install* ... and *Client*.

Figure 7.12: Windows Vista, Client for Microsoft Networks Properties, RPC Service



Figure 7.13: Windows Vista, Computer, context menu

Figure 7.14: Windows Vista, Control Panel, System

7.1.4 Defining identifiers: computer names and workgroups



- Position the mouse on the symbol *Computer* and press the right mouse button.
- In the menu select *Properties*.
 - ⇒ Basic information about the computer is displayed.



• Select *Change settings* to display the System Properties dialog.



Figure 7.15: Windows Vista, System properties, computer name

Figure 7.16:

Windows Vista,

Computer Name/

Domain Changes

Computer Name	Hardware	Advanced	System Protection	Remote	
	ows uses th e network.	e following inf	ormation to identify y	our compute	
Computer descr	iption:				
		or example : " computer".	Kitchen Computer" o	or "Mary's	
Full computer na	ame: G	ISPC			
Workgroup:		STICKEREI			
Network ID.				etwork ID	
To rename this	computer or	change its dr	main or	~	
workgroup, click				Change	

• In the *System Properties* dialog, select tab *Computer Name* and, if necessary, click on *Change*.

- In the box labeled *Computer name*, enter the unique computer name.
- Confirm with **[OK]**, close the dialogs and follow the restart instructions issued by the system.



7.1.5 System-specific settings

. 😨

Network Connection

Printers Taskbar and Start Men

Disabling Sharing Wizard

Documents

Help and Support Run... Shut Down...

Search

J.

2

• In the *Start* menu under Settings select the option *Control Panel*.



• Double-click the *Folder Options* directory.



- In the *Folder Options* dialog, click on the *View* tab.
- Under *Advanced settings* deselect the *Use Sharing Wizard* (*recommended*) option.
- Click **[OK]** to accept the changed setting.
- Then close all other dialogs e.g. with the shortcut **[ALT]+[F4]**.

Figure 7.17: Windows Vista, Start Menu

Figure 7.18: Windows Vista, Control Panel

Figure 7.19: Windows Vista, Network and Internet Folder Options, View



7.2 Usingguest and user accounts

7.2.1 Turning off user account control

- Documents Control Panel Control Panel Control Panel Control Panel Network Connections Printers Taskbar and Start Menu Control Panel Taskbar and Start Menu
- In the *Start* menu under Settings select the option *Control Panel*.

🗲 🗲 🗢 🔡 🕨 Control Par	nel 🕨		- 4g	Search		
Control Panel Home	Name	Category				
Classic View					82	52
	System	Tablet PC Settings	Taskbar and Start Menu	Text to Speech	User	Welcome

• Double-click the *User Accounts* directory.



• Press the entry Turn User Account Control on or off.

Windows Vista, Start Menu

Figure 7.20:

Figure 7.21: Windows Vista, Control Panel

Figure 7.22: Windows Vista, Network and Internet User Accounts



Figure 7.23: Windows Vista, Turn User Account Control on or off



- Untick *Turn on User Account Control (UAC) to make your computer more secure* and close the dialog with[OK].
 - \Rightarrow The PC will now instruct you to carry out a restart.



7.2.2 Enabling/disabling a guest account

NOTE

Figure 7.24: Windows Vista, Start Menu

NOTE

Figure 7.25: Windows Vista, Computer Management Before making further settings, deselect the User Account Control [Section 7.2.1 Turning off user account control]



- Position the mouse on the symbol *Computer* and press the right mouse button.
- In the menu, select *Manage*.

As standard, the guest account is deselected (indicated by the red circle with a white cross in the middle).

Computer Management						-
File Action View Help						
🗢 🔿 🖄 📰 💥 🖬 🔒 🛛 🚺						
Computer Management (Local)	Name	Full Name	Desc	iption	Actions	-
System Tools Task Scheduler	🚝 Admin	Admin			Users	
B Event Viewer	🛃 Administrati	or		in account for administering the computer/domain	More	
Shared Folders	🛃 Guest	Set Password.		in account for guest access to the computer/domain	Guest	
Local Users and Groups Users		All Tasks	•		More	
Groups Groups Groups Generation		Delete				
A Device Manager		Rename				
🔛 Disk Management		Properties				
Services and Applications		Help				

- Under *Local Users and Groups* select the *Users* directory with the left mouse button.
- Move the mouse pointer to the *Guest* user and click the right mouse button.
- In the menu, select *Properties*.



Figure 7.26: Windows Vista, Guest Properties



- Select the *General* tab, then the entries *User cannot change password* and *Password never expires*. The deselect the *Account is disabled* entry.
- Press the **[OK]** key to accept entry.

- ⇒ The guest account has been enabled. The settings have now been completed and you can close the dialogs e.g. with the shortcut [ALT]+[F4].
- Continue with Section 7.3 Creating data exchange directory and enabling for network operation.

Figure 7.27: Windows Vista, Computer Management



7.2.3 Setting up a user account

NOTE

Figure 7.28: Windows Vista, Start Menu

NOTE

Figure 7.29: Windows Vista, Computer Management Before making further settings, deselect the User Account Control [Section 7.2.1 Turning off user account control]



- Position the mouse on the symbol *Computer* and press the right mouse button.
- In the menu, select *Manage*.

If using a user account, the guest account must be disabled. Details of how to disable a guest account are contained in Section 7.2.2 Enabling/disabling a guest account. As standard, the guest account is deselected (indicated by the red circle with a white cross in the middle).

File Action View	Help				
Þ 🔿 🙍 🧔					
Computer Manage	ment (Local)	Name	Full Name	Description	Actions
A 👔 System Tools	1.0	Admin	Admin		Users
D De Task Schedi D B Event Viewe		🛃 Administrato	or	Built-in account for administering the computer/domain	More
Shared Fold		🛃 Guest		Built-in account for guest access to the computer/domain	
A M Local Users					
User:					
📑 Grou	New User				
Reliabilit Bevice N	View	•			
a 📇 Storage	Refresh				
Disk Mai Services and	Export List				
S. Stranger and Stranger and	Help				

- To create the user account, under *Local Users and Groups* now select the *Users* directory with the right mouse button.
- In the menu that appears, select the New User... option.



Figure 7.30: Windows Vista, New User

lew User	2 E
User name:	Net-User
Full name:	Net-User
Description:	

• Enter a *User name* and a *pass-word* and select the entries *User cannot change password* and *Password never expires*.

In this example the user name is *Net-User* and the password is *Ter-minal-T8*. As an option, the *Full name* can be added, and an additional text describing the account can be entered under *Description*.

- Click on **[Create]** to create the user account.
- Click [Close] to close the dialog.

Figure 7.31: Windows Vista, Computer Management



As standard, the new *Net-User* account should already be a member of the group of *Users*.

- This can be checked by pressing the right mouse button on Net-User.
- In the menu that then appears, select the *Properties* option.
 - ⇒ The Net-User Properties dialog appears. Under the Member of tab, in the Member of: window, the wordUsers should be displayed.



Figure 7.32: Windows Vista, Net-User Properties

				-?
General	Member Of Pr	ofile		
Membe	r of:			
æ U	sers			
1				
	-		ges to a user's g	group membersh
A	d	nove are no	ges to a user's ; ot effective until ogs on.	group membersh the next time th

• The settings are correct and you can close all dialogs (e.g. with the shortcut **[ALT]+[F4]**).



7.3 Creating data exchange directory and enabling for network operation

Various options are available for creating a new directory and enabling it for the network. For reasons of simplicity, one of the methods is described below:



- From the *Start* menu, select the *Run* ... option:
- In the window that appears, enter *cmd* and confirm with **[OK]**.



• To create the data exchange directory, enter the following commands and, in each case, confirm with **[RETURN]**.

mkdir c:\ZSK

mkdir c:\ZSK\MUSTER

- A directory named *ZSK* and a subdirectory named *MUSTER* are thus created on hard disk C.
- Close the MS-DOS Prompt by clicking the **[cross symbol]** at the top right of the screen.

Figure 7.33: Windows Vista, Start Menu, Run

Figure 7.34: Windows Vista, MS-DOS Prompt





Figure 7.35: Windows Vista, Computer

Figure 7.36: Windows Vista, Overview of files and directories

Figure 7.37: Windows Vista, zsk Properties ⇒ The symbols for *Computer* and *Network* are now visible on the Windows Desktop (basic screen).

O O O O	mputer 🕨				🕶 😽 Search	
🌗 Organize 👻 🚛	Views 👻 📢 P	roperties 🙀	System propertie	s 👼 Uninstall	or change a program »	
Favorite Links	Name	Туре	Total Size	Free Space		
	Hard Disk	Drives (3)				
Documents						

- In the *Computer* dialog, click the symbol for hard disk C:
- (By way of a security response, you may be required first of all to confirm *Show the contents of this folder*.)





- Mark the *ZSK* directory with the left mouse button and then click the right button to open the shortcut menu.
- In the displayed menu, select **Sharing...**.

• On the *Sharing* tab, click on [Advanced Sharing...].



Figure 7.38: In the box labeled *Share name* Windows Vista, ced Sharing 23 enter the name for sharing the di-**ZSK** Properties, Share this folder rectory. In this example it is Advanced Sharing Settings FRZSK. Share name FRZSK Add Remove Limit the number of simultar 10 ents: Permissions Caching OK Cancel Apply 02060114 If using a Guest account, all the settings have been completed and NOTE you can close all the remaining dialogs e.g. with the shortcut [ALT]+[F4]. Note the remarks at the end of the section. To share the folder only with specific users, in the Advanced Sharing dialog click on Permissions Figure 7.39: Click on [Add...]. ٠ Windows Vista, **ZSK** Properties, In the following dialog, click on Permissions for FRZSK 23 Advanced Sharing, [Advanced...]. Share Permissions Permissions for FRZSK Group or user names: Steryone Add... Remove Permissions for Everyone Deny Full Control Change Read Learn about access control and permissions OK Cancel Apply 02060115 Figure 7.40: Click on [Advanced]. Windows Vista, 2 23 Select Users or Groups **ZSK** Properties, Select this object type Users, Groups, or Built-in security princip Object Types... Advanced Sharing, From this location: Permissions for FRZSK, GISPC Locations... Select Users or Groups Enter the object names to select Check Names OK Cancel Advanced... 02060116



Figure 7.41: Windows Vista, ZSK Properties, Advanced Sharing, Permissions for FRZSK, Select Users or Groups

Figure 7.42: Windows Vista, ZSK Properties, Advanced Sharing, Permissions for FRZSK, Select Users or Groups

Figure 7.43: Windows Vista, ZSK Properties, Advanced Sharing, Permissions for FRZSK

elect Users or	Groups	8
Select this object	ct type:	
Users, Groups,	or Built-in security principals	Object Types
From this locatio	en:	
GISPC		Locations
Common Quer	nies	
Name:	Starts with *	Column
		Find No
Description:	Starts with 👻	Find No
Disabled	accounts	Stop
Non expir	ring password	
	31.000	
		0
Days since l	ast logon: 🛛 💌	P
Days since l	ast logon: 🛛 👻	9 1
Days since I	ast logon: 🛛 👻	<i>₽</i>
	ast logon: 🛛 👻	OK Cance
Search results:		OK Cance
Search results: Name (RDN)	In Folder	OK Cance
Search results: Name (RDN)	In Folder	OK Cance
Search results: Name (RDN) Event Log R Everyone	In Folder	OK Cance
Search results: Name (RDN) Event Log R Everyone Guest	In Folder e GISPC	OK Cance
Search results: Name (RDN) Event Log R Everyone Guest	In Folder e GISPC GISPC	OK Cance
Search results: Name (RDN) Event Log R Everyone Guest Guest	In Folder e GISPC GISPC GISPC GISPC	OK Cance
Search results: Name (RDN) Everyone Guest Guest Guest	In Folder e GISPC GISPC GISPC GISPC	OK Cance
Search results: Name (RDN) Event Log R Everyone Guest Guest IS_IUSRS INTERACTIV	In Falder e GISPC GISPC GISPC GISPC //E	OK Cance
Search results: Name (RDN) Event Log R Severyone Guest Guest IS_IUSRS INTERACTIN USR	In Falder e GISPC GISPC GISPC GISPC //E	OK Cance
Search results: Name (RDN) Everyone Guest Guest IIS_IUSRS INTERACTIN IUSR LICAL SER Net-User Net-User	In Folder e GISPC GISPC GISPC GISPC ZE	OK Cance

Select this object type:	
Users, Groups, or Built-in security principals	Object Ty
From this location:	
CIEDO	
GISPC	Location
Enter the object names to select (examples):	
	Location Check Na
Enter the object names to select (examples):	

Group or user names:		
Everyone Net-User (GISPC\Net-Use)	er)	
	Add	Remov
		1.01104
Permissions for Net-User	Allow	Deny
Full Control	V	
Change	V	
Read		

- Click on **[Find now]** and then mark the desired user with the mouse.
- Confirm the selection with **[OK]**.

- By clicking on **[Advanced...]**, other users can be granted permission to use the directory.
- To accept the selection, also press **[OK]** to exit from the dialog.
 - ⇒ The dialog *Permissions* for *FRZSK*, is displayed again.
- The added user must be granted *Full Control*, *Change* and *Read* permissions.
- Then mark *Everyone* with a click on the left mouse button, and delete by clicking on the **[Remove]** button.
- Click **[OK]** to exit the dialog.


Windows Vista Business/Enterprise/Ultimate Edition:

Figure 7.44: Windows Vista, ZSK Properties, Security	Permissions for ZSK
	Object name: C:\ZSK Group or user names: Everyone Add Remove
	Permissions for Everyone Allow Deny Full control V Modify Read & execute V E List folder contents V E Learn about access control and permissions OK Cancel Apply 02060120
Figure 7.45: Windows Vista, Permissions for ZSK, Security	Starting Security Previous Versions Customize Chject name: C-25K Group or user names: CE Everyone
	To change permissions, click Edit. Edit Permissions for Everyone Allow Deny Full control Modify Accessed Read & execute Use folder contents Read & Write For special permissions or advanced settings. Advanced click Advanced. Learn about access control and permissions OK Cancel Acopy 02060121
	⇒ The <i>Security</i> tab in the successful configuration

• On the *Security* tab, click on **[Edit...]**.

- Click on [Add...] and (in the same way as with the share permissions) enter the *Net-User* as well as the *User* under which you have logged in on the PC.
- Again, these users are to be granted the *full range of permissions*. Then remove the user *Everyone*.

➡ The *Security* tab in the *ZSK Properties* dialog appears as follows after successful configuration:



Figure 7.46: Click **[OK]** to exit the dialog. ٠ Windows Vista, **ZSK** Properties, sions for ZSK 23 Security Security Object name: C:\ZSK oup or user names Admin (GISPC\Admin) Add... Remove missions for Admir Allow Deny Full control V m V Modify Read & execute V List folder contents V -Read V Learn about access control and permissions OK Cancel Apply 02060122 The **ZSK** directory on hard disk C can now be accessed by another PC via the network. This is illustrated by the change in the directory symbol in the overview of files and directories on hard disk C. - Enabled for network ZSK 02059123 - not available 7SK 02059124 If the PC is sometimes used to access the Internet as well, all the ATTENTION network enables for directories are to be cancelled while you are using the Internet. Otherwise, the directories enabled on the PCs are also visible and accessible from the Internet. Internet users with the necessary software and knowledge could gain access to designs stored in an enabled directory.



You can cancel the enable by following the procedure that applies for enabling .

• Cancel the marked option, *Share this folder on the network*, and confirm.

If several data exchange directories are required (e.g. for the Production Manager software), the steps described in this Subsection have to be repeated. In this context also observe the remarks in Subsection 2.5 Important information and typical applications for the following sections and chapter Network operation with GiS BasePac software and on Subsection 3. Network operation with GiS BasePac software.



Windows Vista Business/Enterprise/Ultimate Edition:



NOTE

8. Windows Vista Starter/Home Basic/ Home Premium

The required settings are likely to be similar to those with the Windows Vista Professional Editions. Try the settings described in Chapter 7. Windows Vista Business/Enterprise/Ultimate Edition:, with the restriction that only one guest account should be used.



Windows Vista Starter/Home Basic/Home Premium



Appendix A: Options for network operation (T8)

Using last network connection

By way of a setting in the T8 control unit, you can choose **always** to use the most recently used network connection. This option has the effect that the *Network Connections* dialog does not appear on the T8 control unit each time you would like to access the network.

Selecting this option makes sense if only one network connection is set up on the control unit, or if one specific connection is to be used most of the time/on a permanent basis.

Proceed as follows to select/deselect this option:



• In the T8 control unit basic screen, press the **[L7] Software-/hardware set-**tings button.

Figure A.1: T8 control unit, machine basic screen



Figure A.2: T8 control unit, software/hardware settings

Softwar	e-/hardware settings
Display software versions	Language for dialog texts
Display hardware versions	Set system clock
List of fault occurrences	Network setup
Create service disk	Software settings
	Previous

• Press [R4] Software settings.



	Software settings	
	Simple operation mode	
	🖉 Inquiry pantograph configur.	
	All modification options	
	All optimization options	
	Always ask for design number	
(Select network connection	
Defa	alts	
	irm Previous	

• Press [L6]/[R6] Select network connection.



	1			
Figure A.4:		Network	mode options	
T8 control unit, network mode options		▶ Select network connection	on	•
		Use last network connect	tion	
	0206	0034		
	 Press [L2]/[R2] Use last network	connection .	
	⇒ The	selected option Use las	t network connectio	<i>n</i> now appears in the
	Soft	ware settings dialog.		
Figure A.5:		Softwar	e settings	
T8 control unit, Software settings		Simple operation mode		
		🖌 Inquiry pantograph config	gur.	
		All modification options		
		All optimization options		
		Always ask for design number	:	
		Use last network connection		
	De	faults)	
	Co	onfirm	Previous	
	0000	0005		
	0206	0055		
	• To save the	settings, press [L8] Cor	firm to close the dia	log
	• To save the	settings, press [Lo] Cor	mini to close the dia	log.
				y.
	The desired set log can be clos	ting has been completed	and the Software-/h	ardware settings dia-



Appendix A: Options for network operation (T8)



Appendix B: Network setup (brief overview)

PC	Chapter	Control unit	Chapter	Application
Setting up File and Print Sharing	2.1			
Installing Client for Microsoft Networks	2.1			✓
Operating system-specific supplementary settings	2.1			
Computer name	2.1			GISPC
		Computer name	2.3	ZSKMID26039
IP address	2.1			192.168.0.2
		IP address	2.3	192.168.0.1
Subnet mask	2.1	Subnet Mask	2.3	255.255.255.0
User account	2.2	Network user name	2.3	Net-User
User account password	2.2	Network password	2.3	-Terminal-T8
Network test	2.4	Network test	2.4	Ping test
Create directories	2.5 and 2.6			C:\ZSK\MUSTER
Share directory	2.5 and 2.6			C:\ZSK
Share name (for directory)	2.5 and 2.6			FRZSK
Share permission (for directory)	2.5 and 2.6			Net-User
		Network connection via:		
		Server	3.1.2	GISPC
		or:	or	
		\\Server\SharedDirectory	3.2.1	\\GISPC\FRZSK



Appendix B: Network setup (brief overview)



Appendix C: Use of domains

From *T8 Software Release 02.07.2007a* onwards, the use of domains is facilitated by the T8 control unit.

In the *Network user name* input box of the T8 control unit [Chapter *2.3 T8 control unit settings*] a domain user can now also be stated. The domain user and the associated domain inputs must not exceed 25 characters. They must be entered in the following format:

Domain\Domain user



Appendix C: Use of domains



Appendix D: Limited server functionality

In **T8** Software Release 02.07.2007a and later versions, a limited server functionality is supported by the T8 control unit.

With the GiS software, designs can be loaded directly to the memory of the T8 control unit [Chapter *3.1 Normal operation*]. However, the*monogram machine* mode is available only in the conventional way [Chapter *3.2 Automatic mode, monogram machine*].

NOTE

Access to the memory on the T8 control unit is allowed under the share name *ZSK*. This name cannot be changed. Access to the shared memory cannot be restricted by a password or a user name.

If you have loaded designs from the PC to the memory of the T8 control unit, you should wait for a few moments at the T8 control unit end (approx. 12 sec.) before you access the memory or designs.

Provided that you have set up your network connections as described in previous chapters, you need only make a few supplementary settings in order to use the limited server functionality.

If you have not configured your network connection at all yet, the settings listed at the end of this appendix in the table entitled Network settings for limited server functionality, are sufficient.



Supplementary settings on the T8 control unit

Figure D.1: T8 control unit, machine basic screen

	Net	work se	tup	
IP address a	nd subnet mask		Network user name	•
Computer name	2		Network password	
Allow acce	ess to own memory			
•				
Network test	(ping)			
Network test	(ping)			
Network test		igger a	. software restart	!
Network test	Editing will tr			!
Network test	Editing will tr	igger a		. <u>.</u>
Network test	Editing will tr			!

- To arrive at the depicted **Network setup**menu, press the **[L7]** *Software/ hardware settings* key in the basic screen and then the **[R3]** *Network setup key* [Chapter 2.3 T8 control unit settings].
- Press[L4] to enable the *Allow access to own design memory* option.
- A restart must then be carried out by pressing the **[L8]** or **[R8]** keys.



Supplementary settings on the PC

Chapter 2.7 Set up the access path for the GiS software to the data exchange directory contains a description of how to set up the access path for the GiS software to a data exchange directory (c:\zsk\muster). Add a further access path in the same way. The path must be as follows:

 $\verb+\192.168.0.1\ZSK\MUSTER$

whereby 192.168.0.1 stands for the IP address of the T8 control unit.

The designs can now be loaded directly to the memory of the T8 control unit [Chapter *3.1.1 Saving designs in the data exchange directory*] with the GiS software.

PC	Chapter	Control unit	Chapter	Application
Setting up File and Print Sharing	2.1			
Install Client for Microsoft Networks	2.1			✓
Operating system-specific supplementary settings	2.1			
Computer name	2.1			GISPC
		Computer name	2.3	ZSKMID26039
IP address	2.1			192.168.0.2
		IP address	2.3	192.168.0.1
Subnet mask	2.1	Subnet Mask	2.3	255.255.255.0
		Tick for: Allow access to own design memory		✓
Network test	2.4	Network test	2.4	Ping test
GiS access path				\\ 192.168.0.1 \ZSK\MUSTER





NOTE

Appendix E: Troubleshooting supplement

The following tips are based on the successful completion of a network test as described in Chapter 2.4 Checking the network and tips on troubleshooting.

Have both systems (PC and machine) been switched off and, after a brief delay, back on following completion of all configuration routines?

Have all the configuration tasks described in Section 2.1 Necessary operating system settings (Windows) been performed?

- Is file sharing enabled for the correct directory?

Is a firewall or an antivirus program enabled on the PC that is preventing the data exchange?

NOTE

With Windows XP Service Pack 2 and later versions, Windows has an integrated firewall.

Are directory sharing and the security settings configured correctly?

Were the subdirectories created correctly using GiS software?

- ...ZSK
- -...ZSK\MUSTER

Figure E.1: Windows XP, Local Area Connection Properties

lgemein	Authentifizierung	Erweitert	
/erbindu	ng herstellen unter	Verwendung vor	n:
3 0	om 3C905B-COMB	0-Ethernetadap	ter (Standard)
Diese <u>V</u> e	rbindung verwende	et folgende Elema	Konfigurieren
	Datei- und Drucker QoS-Paketplaner Internetprotokoll (T		Eigenschaften
Beschr		Zennstanieren	Ligensenaten
	licht den Zugriff au oft-Netzwerk.	f Ressourcen in	einem
<u>S</u> ymb	ol bei Verbindung ir	m Infobereich an:	zeigen

Further tips:

• In the *Local Area Connection Properties* dialog, deselect the *QoS Packet Scheduler* option (Windows XP and later versions).



If only *Monogram machine* automatic mode is not working, and there is an empty ZSK directory on the PC:

• Delete the files *zsk. ini* and *zsk_ini. dis*.



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