
OLD - Man TICo[®]

Operator's Manual



MICROPLEX[®]

Edition 1.2

Table of Contents

Chapter	Page
1. Preface	7
1.1. General Description	7
1.2. Systematic Structure of Function	12
1.3. Conventions	14
2. Extent of Supply and System Requirements	15
2.1. Extent of Supply	15
2.2. Hardware and Software Requirements	16
3. Installation	17
3.1. Connection of the Printers and the Dongle	17
3.2. Printer Settings for OLD - Man TICo®	18
3.3. Installation of the Software OLD - Man TICo®	20
3.4. Dialing OLD - Man TICo® as Windows Printer	24
3.5. Deinstallation of the Software OLD - Man TICo®	26

4 Contents

Chapter	Page
4. Operating Functions	27
4.1. Starting the Program OLD - Man TiCo®	27
4.2. The Software Modules	30
4.3. Printer Adding and Configuring	32
4.4. Using the Control Windows for the Printers	39
4.5. Master-Configuration for OLD - Man TiCo®	41
4.6. Control Panel of the Virtual Printer	45
4.6.1. Menu Structure of the Virtual Printer	47
4.6.2. Syntax of Diagrams	50
4.6.3. Generating the Status Sheet	51
4.6.4. Normal Print Mode Activation (incl. FORM FEED)	53
4.6.5. Generating the Menu Page	54
4.6.6. Setting to Factory Default	55
4.6.7. Configuration of Text Margins	56
4.7. Saving the Printer Configuration on PC	58
4.8. Receiving or importing Print Jobs	59
4.8.1. Printing from an Application	59
4.8.2. Generating Printjob from File	60
4.8.3. TIFF Import	61
4.9. Managing Printjobs	63

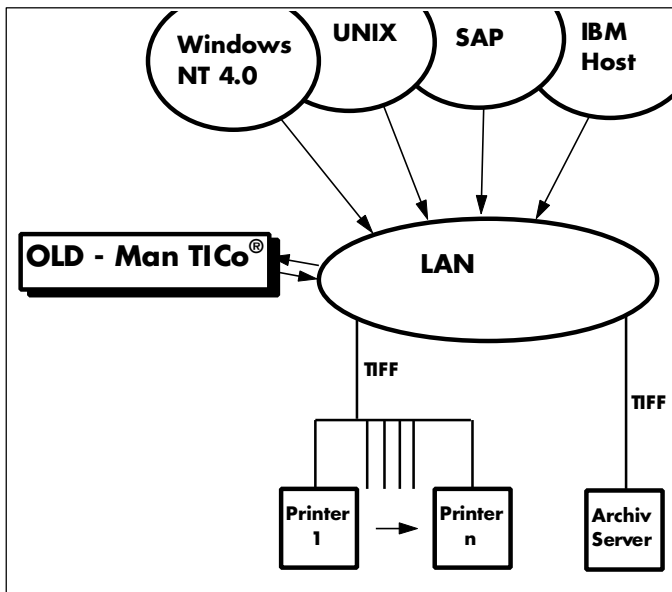
Chapter	Page
5. Archiving (Option)	70
5.1. Configuration of the Archive Interface	70
5.2. Using the Jobname as Index	73
5.3. Indexing a Printjob via Host Commands	73
5.3.1. IDOL Command Start of Job	75
5.3.2. IDOL Command End of Job	76
5.3.3. IDOL Command Job Index	77
5.4. Information on the Index File	82
5.5. Information on the Status File	85
5.6. Information on the Data File	86
5.7. Example: The Dr. Grauert Letter	86
6. Appendix	92
6.1. Licence Contract	92
6.2. Hints for Configuring a Print Server	94
6.3. Index	97

1. Preface

1.1. General Description

OLD - Man TICo[®] is a modular constructed printmanagement software.

Object of application of this software is the total printjob control and observation from the host to the paper.



OLD - Man TICo[®] communicates directly via a TCP/IP connection with the connected printers.

If there are any MICROPLEX printers connected to the system, each printed page is confirmed by OLD - Man TICo[®].

The software OLD - Man TlCo® is an extension of the MICROPLEX-designed printer operation system IDOL. It has to be installed under the operation system Windows NT 4.0 or Windows 2000 onto a PC.

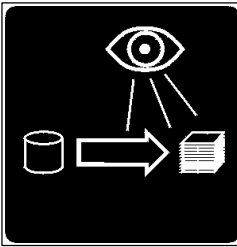
The virtual printer OLD - Man TlCo® is supplied with print data via a Windows NT printerspool. The virtual printer supports all emulations offered by MICROPLEX.

The received printdata streams are interpreted and converted as intermediate format in TIFF images (CCITT Fax 4) and then filed in a compacted form into a buffer.

From here the printdata can be sent to any output devices (being able to print TIFF documents) or to a document archive.

The OLD - Man TICo® modules are:

Controlled spooling



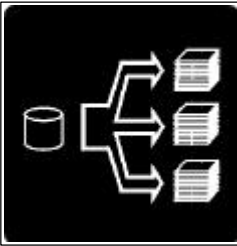
- controlled printout, page by page, incl. feedback
- automatic back-up (uncoupled from host and network)
- preview and reprint of individual pages of a large spool
- operator independent print management.

The spooling basis module of OLD - Man TICo® offers the basis functionality of the print management software.

Every individual page of a printjob is put out controlled on the selected printer. If the output device is a MICROPLEX system, each put out printpage is confirmed to the OLD - Man TICo®.

The work-off of your print proceedings is represented on a Windows frontend being simply to operate.

Intelligent clustering (optional)



- defined printjob distribution to several printers
- automatic diversion to pre-selected back-up printers
- configuration via Windows NT frontend

The clustering module of OLD - Man TICo[®] offers a clustering and backup functionality, which is simple to operate and to configure.

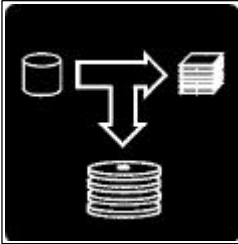
The jobs being generated by the host are distributed automatically to several pre-selected printers.

An economical backup solution this way is created without intruding the host application.

The preceding complete TIFF converting enables a pagemastered distribution and observation of the printjob incl. the confirmation of every individual printed page. As a pre-condition MICROPLEX designed for this bi-directional operating interfaces (corresponding to the norm IEEE 1284) for its printsystems.

Via these interfaces eventually occurring jams of a certain printer are signaled to OLD - Man TICo[®]. Because OLD - Man TICo[®] knows exactly, how many pages have been printed out correctly before, it can forward the remaining job automatically to another pre-defined substitute printer, if desired by the user.

On-Line Archiving (optional)



- automatic archive interface
- page by page controlled archiving
- only the pages printed in fact are exported to the archive interface
- automatic indexing is possible
- archived information is 100% identical to the print output

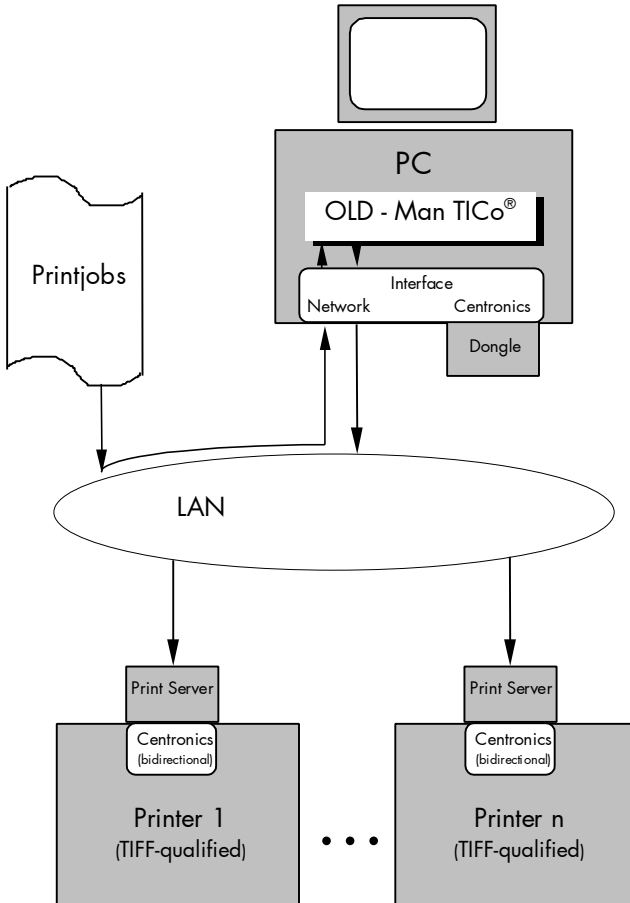
The On-Line Archive Module of OLD - Man TICo[®] enables the simple export of printjobs from the host environment to an archive interface.

The indexing takes place via host commands or automatically from the job information.

By configuration it is guaranteed, that only printed pages are exported.

The TIFF data can flexibly be taken by an archive software from the archive interface.

1.2. Systematic Structure of Function



From now on OLD - Man TlCo® adopts the tasks of a print manager, in doing so the switch over between the connected printers will take place automatically (as configured before).

Information:

For optimizing the print speed of voluminous printjobs it can be useful to connect the printer via a further separate net (LAN) to the PC containing the software OLD - Man TICo®.

1.3. Conventions

To find the requested information more quickly and to understand instructions more easily the following conventions are used:



This symbol refers to a possible source of danger. If you do not pay attention to this information injuries might result, the function of the devices could be reduced or the devices could be damaged.



This symbol refers to important information and suggestions on using the product. Disregarding these information might cause defects of the printer or within the environments.

2. Extent of Supply and System Requirements

2.1. Extent of Supply

Please make sure there are no transportation damages and everything is complete.

Damages should be informed to the supplier immediately.

Open the packing carefully and check the contents.

Checking list:

1. Compact Disc (CD) with the following contents:
 - software OLD - Man TICo[®]
 - Operator's Manual OLD - Man TICo[®]
 - file README.TXT in the root directory (contains current information concerning the installation, e.g.)
 - Windows NT driver
 - Windows 95 driver
2. Dongle
3. Operator's Manual OLD - Man TICo[®]
(this manual, printed)

Information:

The software OLD - Man TICo[®] is constantly improved and accommodated to our clients' demands.

For this reason software deviations are possible (compared to the descriptions in this manual), e.g. in case of the monitor presentation.

2.2. Hardware and Software Requirements

PC-system requirements (minimum equipment)

- Pentium II processor, 300 MHz, 128 MB RAM or more
- CD ROM drive
- hard disk with about 10 MB empty storage capacity for the program OLD - Man TICo® and e.g. 1 GB empty storage capacity for your printjobs (depending on their volume!)
- network interface card(s)
 - connection to the host (matching to your net)
 - connection to the printer (Ethernet, 10 or 100 Mbit)
- Centronics interface
- Screen resolution 800*600 pixel or higher

Operation system:

- Windows NT 4.0 (Service Pack 4)
 or Windows 2000

Printer:

Supported are MICROPLEX printers incl. the controller versions MPC 3.x and MPC 4.x

- The emulation TIFF (CCITT Fax 4) is employed.
- The firmware functionality Status-Out has to be unlocked (see chapter 3.2. Printer Settings for OLD - Man TICo®).

Print Server with reverse channel support (backchannel)

(suitable (for example): Microplex Pocket Print Server M 205 for connecting your printer to a 10 Mbit Ethernet or M 305 for 10/100 Mbit).

3. Installation

3.1. Connection of the Printers and the Dongle

Information:

Current information on the installation e.g. can be found in the file README.TXT in the CD's root directory.



To avoid damaging the devices, all devices have to be switched off (resp. to be disconnected from the power supply) before starting with the connection of interface lines.



Protect the dongle after having it attached to the parallel interface of your PC by fastening the two fixing screws.

Connect the PC via network card to your datanet.

For connecting your printers to the datanet you need one print Server (Microplex Pocket Print Server) in each case. This box has to be connected to the printer's Centronics-interface (see sketch of the principle in chapter 1.2) and to the net.

For the communication of OLD - Man TICo[®] and the printer the reverse channel has to work (MICROPLEX printer controllers are provided with bi-directional interfaces according to the norm IEEE 1284).



Information on configuring a print server (described with the example Microplex Pocket Print Server) can be found in the appendix.

Now install the printer driver suitable to your printer on the PC.

3.2. Printer Settings for OLD - Man TICo®

These settings are necessary so that the program OLD - Man TICo® can communicate with the printers. The printer settings can be performed by special IDOL commands and / or with the help of a configuration program. Standard configuration data can be sent from out of OLD – Man TICo to the printer, too. (See chapter 4.3 Printer Adding and Configuring: Note in figure 4.3.d). Some of the alterations can be carried out via the printers´ control panels, if necessary.

Further information can be found in the separate documentation "The EEPROM Sequence".

1. The framestore and the input buffer have to be cleared in all offline-conditions.

Please use the EEPROM configuration
config. 33, Bit 8 = 0

2. The firmware functionality Status-Out has to be unlocked.

If it is not, please send the printer´s serial number (or a status sheet) to MICROPLEX.

After getting the functionality Status-Out it can be unlocked using a softkey.

Send the softkey to the printer using the following IDOL-command:

Syntax: <ESC><ESC>+m <hhhhhhhh>

Parameter: <hhhhhhhh> : Softkey, eight-digits
hexadecimal number

Switch the printer off and on again and check the options on the status sheet.

3. The firmware functionality Status-Out can be activated like this:
 - a) Status-Out with automatical output:
please use the EEPROM configuration config. 23, Bit 13 = 0
 - b) Status-Out via Centronics (IEEE 1284):
please use the EEPROM configuration config. 39, Low Byte = 0xFE
4. The Emulation TIFF (CCITT group 4) has to be enabled.
5. After the reconfiguration the printer has to be switched off and on again.

Information: The selection of the TIFF emulation (CCITT Fax 4) is performed automatically by the program OLD - Man TICo®.

3.3. Installation of the Software OLD - Man TICo®



Information:

- For employing the software OLD - Man TICo® the operation system Windows NT 4.0 or Windows 2000 is necessary.

- Please use a net account incl. administrator rights.

- When installing a possibly existing older program version will be overwritten!
Is the new program version installed on the same path, the settings of the old version will remain and the old jobs are available in future.

Description of the installation:

1. Please start Windows NT.
2. Insert the compact disc (CD) containing the software OLD - Man TICo® (see extent of supply chapter 2.1) into your PC drive.
3. Operate the **Start**-button in the Windows desktop.
4. Select the **Execute** command from the context menu.
5. Select **Scan** (Dial CD-drive).
6. Select in the directory **OLD - Man TICo®** the program **SETUP.EXE**.

After starting the installation program the following window appears:



Fig. 3.3.a Welcome window

Attention: This program is protected by copyright and also by international contracts. For this reason please read the license contract carefully! A reprint of the license contract can be found in the appendix of this manual.



Fig. 3.3.b License contract

Attention: By activating the button **Next** you agree to the license contract and continue the installation of OLD - Man TICo®.

7. Follow the additional menus of the setup-program.



Fig. 3.3.c Destination path selecting

Are the default values confirmed without any modification by activating **Next**, so the program OLD - Man TICo® is saved in the following directory:

Program Files \MICROPLEX\OLD-ManTICo

8. End the setup process (**Complete**) by starting the computer new.

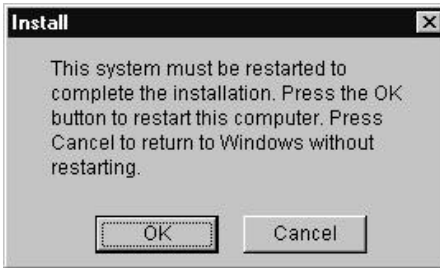


Fig. 3.3.d Select a system restart



The correct installation of the program OLD - Man TICo® will only be performed by **Restart**.

3.4. Dialing OLD - Man TICo® as Windows Printer

Run:

1. Activate the **Start** button in the Windows NT desktop.
2. Select **Settings** in the context menu.
3. Select **Printers**.
4. Use the right mouse button to click within the printer menu onto the printer symbol of that printer being configured for OLD - Man TICo® (see chapter 3.1 Connection of the Printers and the Dongle).
If you have configured several printers for OLD - Man TICo®, please click on the symbol of your main printer.
5. The window **Properties** appears.

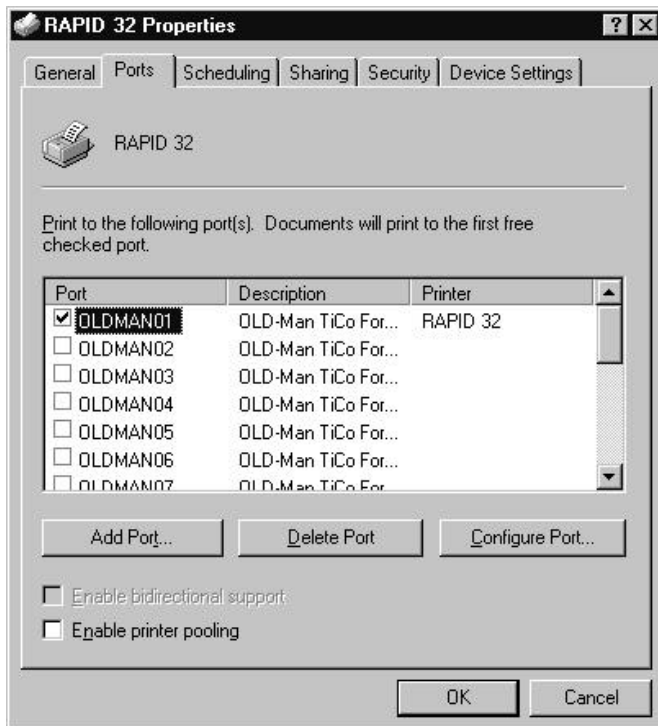
6. Select the registercard **Ports**:

Fig. 3.4.a Registercard Ports

After the installation of OLD - Man TiCo® (see chapter 3.3) the port listing is provided with several items called OLDMAN (see figure above).

7. Dial the port **OLDMAN01**.

8. Confirm your settings with OK.

All print commands of the printer selected before are now printed out via OLD - Man TiCo®.

3.5. Deinstallation of the Software OLD - Man TlCo®

If required you can clear the software by performing the following steps:

1. Start Windows NT.
2. Make sure OLD - Man TlCo® is not opened.
3. Activate the **Start** button in the Windows desktop.
4. Select **Settings** in the context menu.
5. Select **Control Panel**.
6. Select **Software**.
7. Select in the window **Software Features** the software OLD - Man TlCo® .
8. Activate the button **Add/Clear**.
9. Choose the deinstallation method and continue, if you want to deinstall the program OLD - Man TlCo®.

Information: The data being copied on your hard disk during the installation of OLD - Man TlCo® are cleared now. Files being generated resp. manipulated (e.g. jobfiles) will not be cleared.

4. Operating Functions



For the operating functions being described below the printer is presumed to be switched on and Windows NT to be started.

In addition the connected printers should be ONLINE when starting the program.

4.1. Starting the Program OLD - Man TICo®

a) Cue of OLD - Man TICo®

Run:

1. Activate the **Start** button in the Windows desktop.
2. Select **Program Files** in the context menu.
3. Select the directory **OLD - Man TICo**.
4. Select **OLD - Man TICo**:

Alternative:

Double-click on the OLD – Man TICo icon (symbol of a mill on the desktop).

If you have not installed the Dongle yet, the following message appears:



Fig. 4.1.a Dongle missing

Connect the Dongle to a parallel port of your PC. Pay attention to the information in chapter 3.1: Connection of the Printers and the Dongle.



Fig. 4.1.c Information window for the software
OLD - Man TICo®

4.2. The Software Modules

OLD - Man TlCo® is a modular constructed print management software. The following modules can be gained:

Spooling Basis Module

The Spooling Basis Module of OLD - Man TlCo® makes the basis functionality of the print management software available. Every single page of a printjob is put out controlled on a selected printer. If the output device is a MICROPLEX printsystem, each put out printpage will be confirmed to OLD - Man TlCo®.

With the spooling basis module you can run one main printer and up to two backup printers.

Clustering Module (optional)

The Clustering Module of OLD - Man TlCo® offers a clustering and backup functionality that is easy to operate and to configure. The jobs being generated by the host are distributed automatically to several pre-selected printers.

The TIFF converting being performed completely before, enables a page-equitable distribution controlling of the print job incl. confirmation of every individual page.

With the clustering module you can run up to three cluster printers (in the basis version) having equal rights.

On-Line Archive Module (optional)

The On-line Archive Module of OLD - Man TlCo® enables a simple export of printjobs from the host environment to an archive interface.

The indexing is released via host commands or automatically out of the job information.

By configuration it is guaranteed that only printed pages are exported.

From the archive interface the TIFF data can flexibly be taken by an archive software.

Information:

The figures used in this manual show the operating surfaces of the full version of the software OLD - Man TlCo®.

If you have not gained all modules, the function elements of the missing modules are only shown light and they are without function.

4.3. Printer Adding and Configuring

By the following operation steps you can install the printers in software which have already been connected in hardware before (see chapter 3.1).

a) Printer adding:

Dial the pulldown menu **Printer** (see the dotted range in figure 4.3.a).



Fig. 4.3.a Calling the printer dialogue menu

After calling **Printer \ Add** the printer configuration window appears (see fig. 4.3.b).

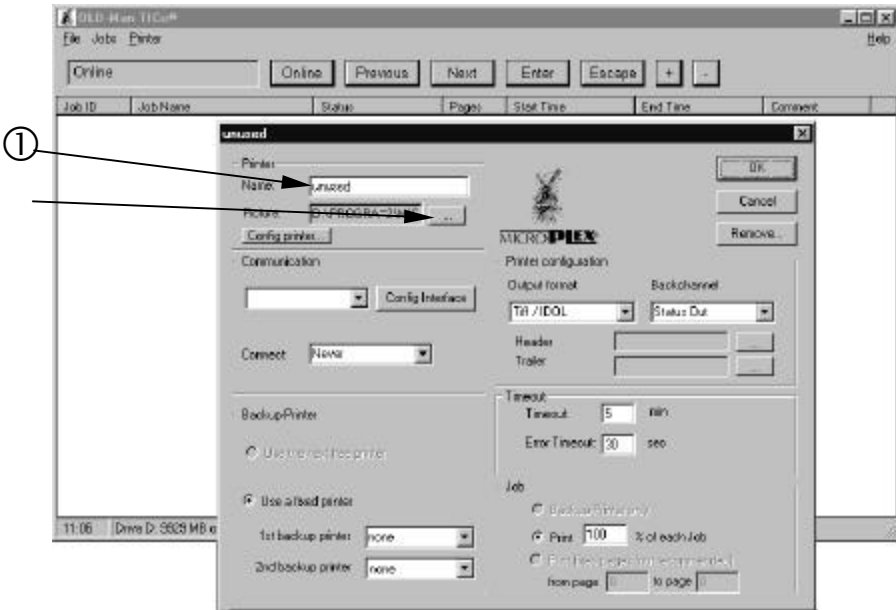


Fig. 4.3.b Printer configuration window

Give the printer a name now.

When establishing the printer's names (see input field ① in the fig. above) make sure the name is only given out once. By using the "..." – button you reach the picture selection field. Now you can adjoin the corresponding picture (thumbnail) to your printer appearing in the printer configuration window in future.

In the **group "Communication"** you can set the port of the printer (see arrow in figure 4.3.c).

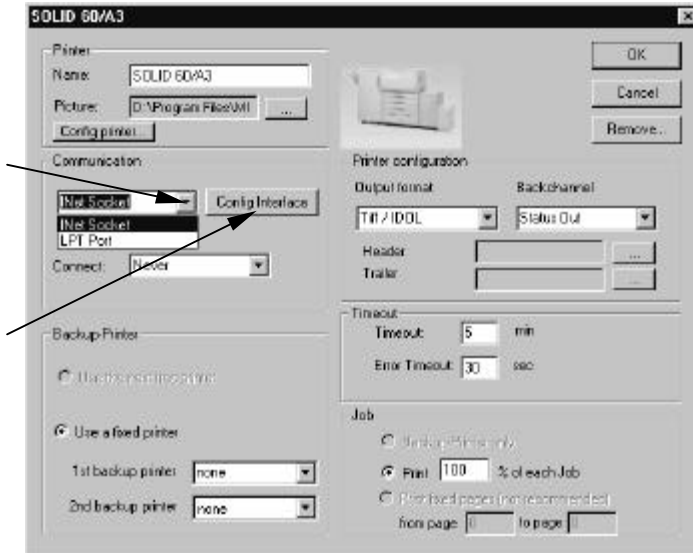


Fig. 4.3.c Group “Communication” in the printer configuration window

Using the **Config Interface** – button the dialogue menu is opened to put in the printer’s IP address and the port number of the printer (see figure 4.3.d).

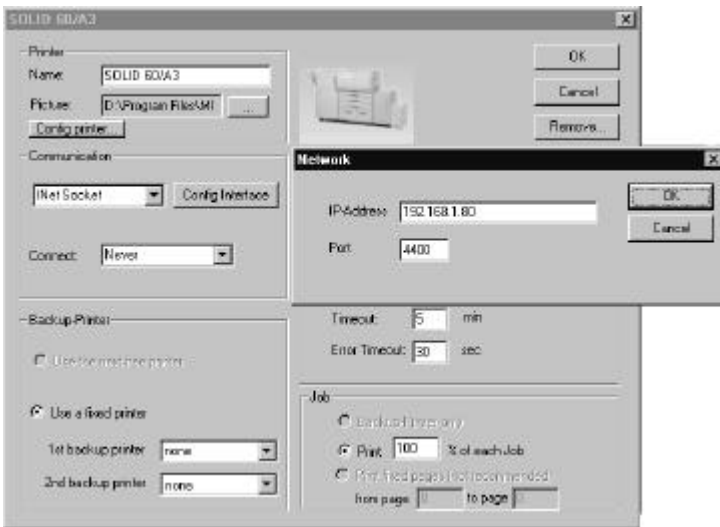


Fig. 4.3.d Network menu

In the **group "Printer configuration"** (in the middle/right of figure 4.3.e) the output format of the data stream and the backchannel are to be chosen.

The following output formats are available (optional):

Outp.format	Backchannel	Printer	Performance
TIFF / IDOL	Status Out	MICROPLEX printer	Full control
TIFF / IDOL	No backchannel	any TIFF-able printer	Preview/Reprint but no autom.Backup
PCL	No backchannel	any HP-comatibel printer	Preview/Reprint but no autom.Backup

By activating the **Config printer** button (see figure 4.3.e) you are able to send standard configuration data to the printer (as an alternative to the settings at the printer described in chapter 3.2). Before using the Config printer button please set the backchannel to **No Backchannel**.

As soon as the sequence was sent, the message "Config. sent" is displayed in the printer window.

The printer should be turned off now and turned on after that.

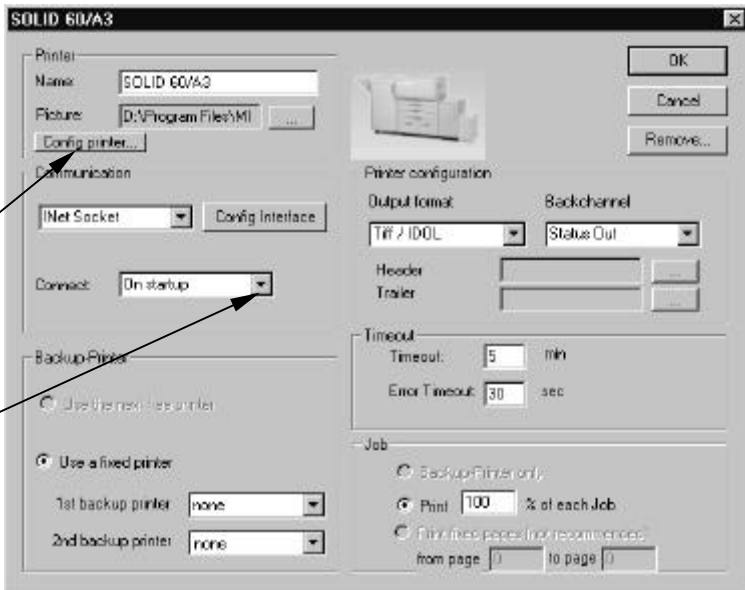


Fig. 4.3.e Group "Communication" in the printer

In the dialogue field **Connect** (see arrow in figure 4.3.e) the following options are to dial:

- never (printer is not employed by OLD - Man TICo®)
- on demand (connection is build up new for each printjob)
- on startup (steady communication with OLD - Man TICo®, printer is controlled)

In the **group** ²**Job**² (fig. 4.3.e right/below) you can determine the share of printjobs being taken by this printer. Further settings in this group are only efficient if at least one more printer is configured (see the following pages).

Confirm your settings with OK.

b) Adding and configuring an additional printer:

After having finished configuring the first printer you can open an additional printer configuration window by calling **Printer \ Add** (see fig. 4.3.a).

Please notice:

In the **control window for the connected printers** (see ① in fig. 4.3.f) the first printer is already shown now (half-concealed by the printer configuration window in fig. 4.3.f).

For this second printer, too, please put in the corresponding data as described in top a (printer adding).

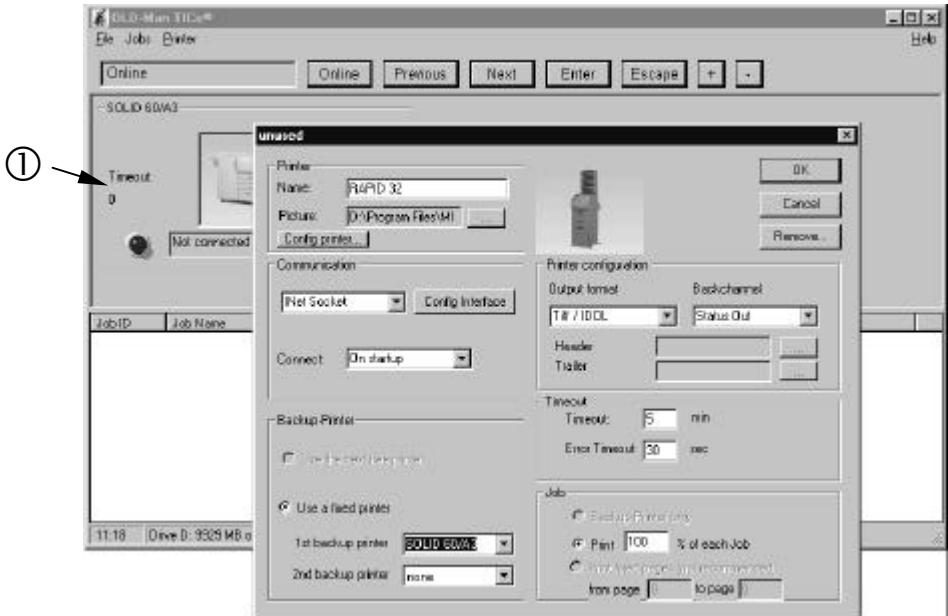


Fig. 4.3.f Additional printer configuration

① control window for the connected printers

In the **group** ²**Job**² (fig. 4.3.f right/below) you can determine if the printer has to work only as backup printer. If a printjob is distributed on several printers, you can decide by activating the input field **Print ... % of each Job** for each printer, the printjob share (in %) this device has to take. These functions are only available in connection with the clustering module of OLD - Man TICo®. In the bottom input fields of the group "Job" you can determine which printer prints which pages of the printjob.

In the **group** ²**Backup Printer**² (fig. 4.3.f left/below) you can determine the other printer that has to operate as backup printer for the first one.

For each printer you can determine – if existing – two backup printers.

In the **group** ²**Timeout**² (fig. 4.3.f center/right) you can determine the time OLD - Man TICo[®] will wait in case of occurring communication problems until it will not employ the corresponding printer anymore.

The timeout-function is job-dependent, that means, as soon as a new printjob is to be expected, the printer gets a new chance to react on the signals of OLD - Man TICo[®].

In the configuration field **Error Timeout** you can determine the time OLD - Man TICo[®] will wait for the removal of an error occurring in this printer, until it sends the remaining pages of this printjob to the backup printer.

4.4. Using the Control Windows for the Printers

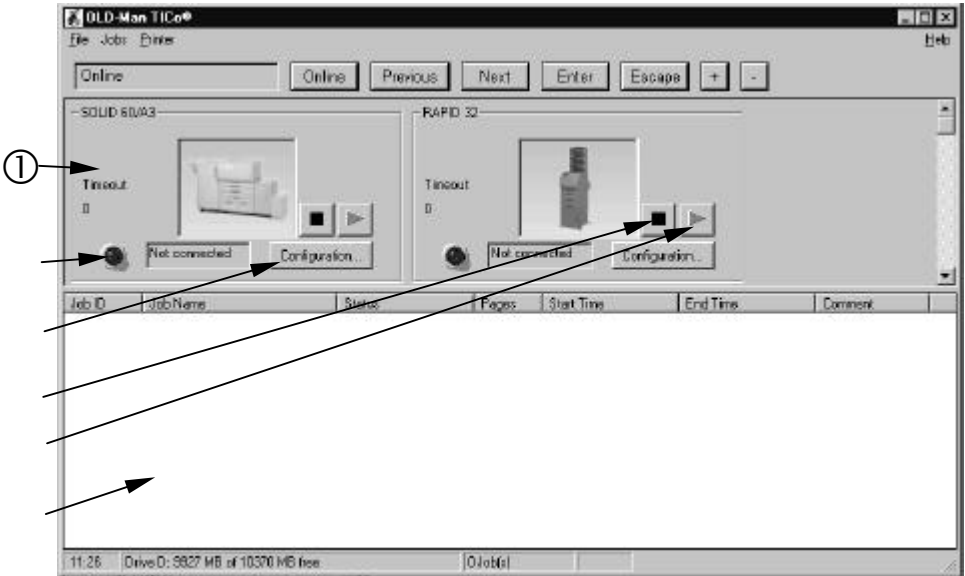


Fig. 4.4.a Main menu of OLD - Man TICo®

- ① Control window for the connected printers
- Display for the printjob list

In the control window for the connected printers you can see the printers' status messages.

The colour of the symbol – **LED** – have the following meanings:

- green printer is ONLINE
- red printer is OFFLINE
- grey printer is not switched on / connected resp. defective or the network connection can not be build up

The **Configuration** button (see figure 4.4.a) is used for altering the configuration of the corresponding printer. After activating the configuration button the printer configuration window, showing the default values for the corresponding printer, appears. Modifications can be performed now analogue to the steps being described in chapter 4.3.

The **“Start”** button is used to activate the corresponding printer. After activation of the **“Stop”** button however OLD – Man TICo® for the time being sends no more print jobs to this printer.

4.5. Master-Configuration for OLD - Man TICo®

Dial the pulldown menu **File** (see dotted range in fig. 4.5.a).



Fig. 4.5.a Main menu of OLD - Man TICo®

After calling the **File \ Master-Configuration** following menu appears:

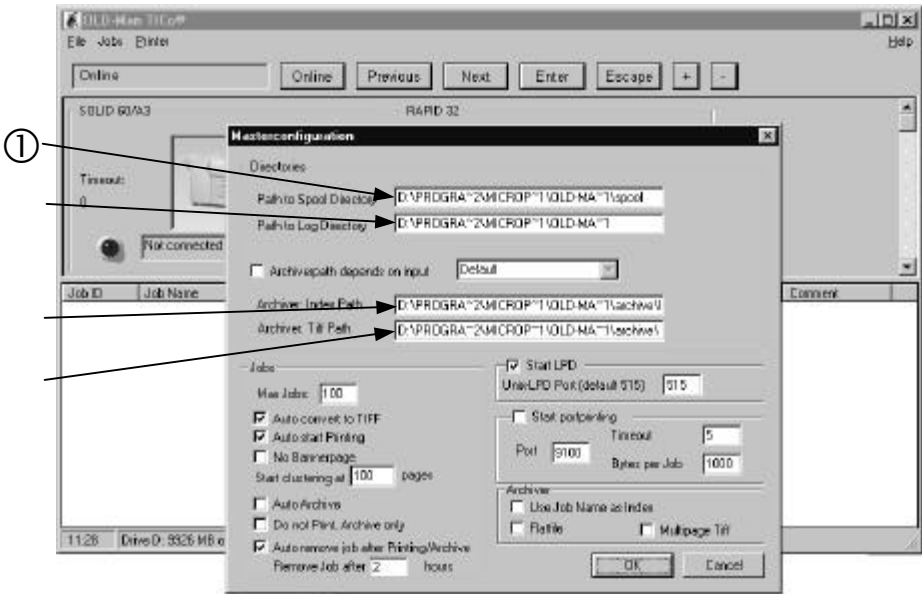


Fig. 4.5.b Dialogue menu Master-Configuration

In the **group** ²**Directories**² you can determine resp. alter the filepaths.

In the dialogue field **Path to Spool Directory** ① you can determine where the files resp. printjobs are stored. E.g. if there is not enough space on the drive OLD - Man TICo® is installed on, you can determine here another drive for the printjob storing.

In the optional dialogue field **Archiver: TIFF Path** is determined where the compressed printdata (TIFF files) are archived (by using the optional archive function).
(Each printjob is stored in the spool directory first, then the TIFF images are copied into the TIFF path if necessary).

In the **group² Jobs²** the basic settings for the work off of printjobs are configured.

After dialing **Auto convert to TIFF** the printdata are converted automatically to the TIFF format after arriving in the Windows Print Spooler.

After dialing **Auto start Printing** the printout is started automatically subsequent to the tiffing.

By dialing **Auto remove job after Printing/Archive** a manual clearing of the worked off/printed jobs is not necessary any more.

In the corresponding input field **Remove Job after** **hours** you can put in the time. The standard value is 0 hours, that means the job is cleared automatically after the printout resp. the archiving.

Notice:

In the main menu of OLD - Man TICo® the free storage on the PC's spool drive is indicated in the left below.

4.6. Control Panel of the Virtual Printer



Fig. 4.6.a Main menu of OLD - Man TICo®

① Control panel of the virtual printer

The control panel of the virtual printer enables the configuration altering (substitute for the direct setting at the operating fields of the networked printers).

The settings at the control panel (see fig. 4.6.a) are relevant with that for all connected printers.

The received printdata streams are transformed in the standardized TIFF format (CCITT Fax 4) and filed into a buffer by (the software) OLD - Man TICo®.

Before the data are sent (in fact) to a output device (printer), you can check the print image **before** with the virtual printer (see chapter 4.9 Managing Printjobs: **PREVIEW**).

At the control panel of the virtual printer (see ① in fig. 4.6.a) you can optimize the print parameter settings corresponding to your defaults.

In the chapters 4.6.1 to 4.6.7 is described how to reach certain printer functions via the control panel of the virtual printer.

T e m p o r a r y changes in configuration are effective only as long as the program OLD - Man TICo® is active. To select such changes temporarily, the user must terminate the change of function by pressing the **ENTER** button one single time.

P e r m a n e n t changes in configuration are active each time the program OLD - Man TICo® is started again. To select such changes permanently, the user must terminate the change of function by pressing the **ENTER** button **three times**.

An output of the current setting values can be generated using the "Status Sheet Printing" panel function (see chapter 4.6.3).

4.6.1. Menu Structure of the Virtual Printer

Access to the menu structure is possible as soon as the virtual printer is turned Offline by clicking on the **Online** button.

The menu structure is arranged in different levels:

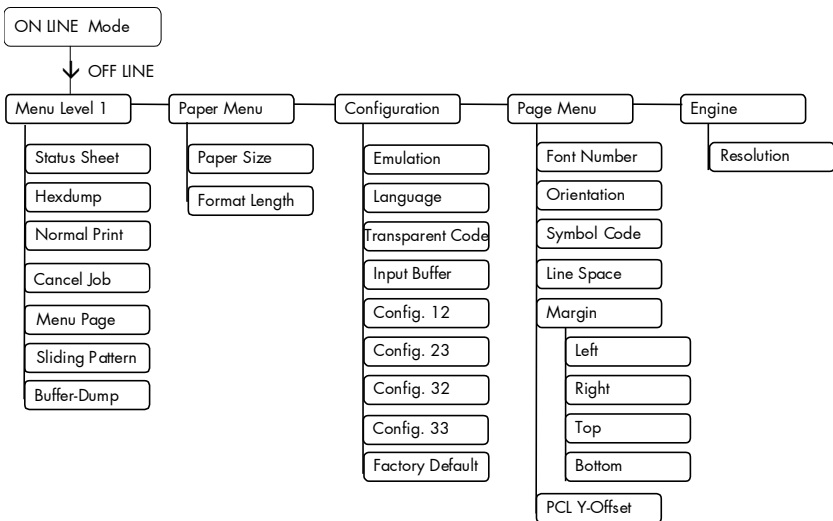


Fig. 4.6.1.a Virtual Printer's Menu Structure

A picture of the current menu structure of your OLD – Man TICo® system can be generated using the operating function Generating the Menu Page (see chapter 4.6.5).

Selecting positions in the menu structure:

Online

This key symbol shows the Online button. This button turns the virtual printer Online or Offline. Is the printer turned Offline you get into the 1. menu level of the menu structure.

Next

These buttons move the user within the menu levels.

Previous

["Menu Level"]

Each menu item/sub-item within a menu level is displayed in the control panel of the virtual printer.

Enter

The Enter button has two main functions. It gives the user access to a particular menu and, once in the menu, it allows the user to select a particular function.

["Function"]

Functions / Changing of function values:



Within one function the position of the function value to be changed (DIGIT) can be selected with the buttons Next and Previous.



The buttons + and - change the value of the selected digit of the function value.

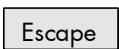


Pressing the Enter key the function value currently displayed is confirmed resp. the selected function is activated.



The altered configuration will be active after each power on.

Return to the Online mode:



Clicking the Escape button takes the user back to the respective menu level above.



The Online button switches the user directly to the Online mode from any menu position.

4.6.2. Syntax of Diagrams

The call of certain panel functions will be described using diagrams. These diagrams show the course necessary in order to activate a certain function.

First the elements of the diagrams are explained:



The sequence on the left describes which control panel buttons have to be clicked in succession.

In this example the button Online has to be clicked first. Then the button Enter has to be clicked and at last the button +.

["Message"]

The "Panel display" column shows the messages of the virtual printer's control panel corresponding to the sequences listed on the left.

In the column "Notes" explanations to particular operational steps are given.

In the following chapters 4.6.3 up to 4.6.7 some operating functions are described more detailed, which are offered by the MICROPLEX controller. Here it is only a matter of choice. A summary of all control panel functions is given in the menu structure in chapter 4.6.1.

Status sheet contents:







The first lines entitled SERVICE INFORMATION contain hexadecimal coded configuration parameters.

Printed in plain Text:

- Controller version / memory / serial number
- Printer emulation
- User-RAM / free User-RAM
- Input data buffer
- Transparent code
- (Firmware) program version
- Default margin top / left
 bottom / right
- Default character code
- Options
- Fonts

4.6.4. Normal Print Mode Activation (incl. FORM FEED)

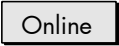




The normal print mode suspends the Hexdump-Mode. In addition to that this function can be used to produce a FORM FEED.

	<u>Panel display</u>	<u>Notes</u>
	[Online]	
↓		
	[Menu Level 1]	
↓		
	[Status Sheet]	
↓	• • •	
		Click the Next or Previous button until [Normal Print] is displayed.
	[Normal Print]	
		
↓		
	[Normal Print]	The normal print mode is activated.
		The virtual printer is turned Online again.

Note: After activating the normal print mode a FORM FEED is released automatically and one sheet is put out. This is necessary because after a test in the Hexdump-Mode it is possible that data can remain in the input buffer unintentionally (cause: in the Hexdump-Mode no control characters are evaluated and no FORM FEED is effected).

4.6.5. Generating the Menu Page

By activating this function you can generate a survey of the available control panel functions.




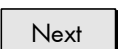

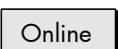
	<u>Panel display</u>	<u>Notes</u>
	[Online]	Turn the virtual printer Offline with this key.
↓	[Menu Level 1]	
	[Status Sheet]	Click the Next or Previous button until [Menu Page] is displayed.
↓	• • •	
	[Menu Page]	
↓	[Menu Page]	A menu structure presentation of the virtual printer (see diagram in chapter 4.6.1) is generated.
	[Menu Page]	
↓	[Menu Page]	The virtual printer is turned Online again.
		

The menu page is stored in the TIFF-format under the path being determined in File\Master-Configuration\Path to Spool Directory (see also chapter 4.5).

You can have a look at the status sheet by starting the Windows NT Explorer and double-clicking on the menu page file. By this that program is started which is connected to the file type TIFF (e.g. Imaging).

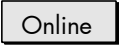




4.6.6. Setting to Factory Default

This function back-outs all configurations of the virtual printer to factory defaults.

	<u>Panel display</u>	<u>Notes</u>
	[Online]	
↓	[Menu Level 1]	
	• • •	Click the Next or Previous button until [Configuration] is displayed.
↓	[Configuration]	
		
↓	[Emulation]	
	• • •	Click the Next or Previous button until [Factory Default] is displayed.
↓	[Factory Default]	
		
↓	[Factory Default]	The configuration is back-outed to factory defaults.
		The virtual printer is turned Online again.

4.6.7. Configuration of Text Margins

This function sets the text margins of the virtual printer. Margins are expressed in dots at the upper left edge of the paper.

	<u>Panel display</u>	<u>Notes</u>
	[Online]	Turn the virtual printer Offline with this key.
↓	[Menu Level 1]	
	• • •	Click the Next or Previous button until [Page Menu] is displayed.
↓	[Page Menu]	
		Click the Next or Previous button until [Margin] is displayed.
↓	[Font Number]	
	• • •	
↓	[Margin]	
		
↓	[left]	

The description is continued on the next page!

	<u>Panel display</u>	<u>Notes</u>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">Next</div> <p style="text-align: center;">↓</p>	<p>[left]</p> <p style="text-align: center;">• • •</p>	<p>Click the Next or Previous button until the desired margin is displayed.</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">Enter</div> <p style="text-align: center;">↓</p>	<p>[right]</p>	
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">Previous</div> <p style="text-align: center;">↓</p>	<p>[Digit1 02381]</p>	<p>Pushing the Previous key changes the value of the current position (digit 1 = last position, in this example: 1).</p> <p>Pushing the Next key moves you to the next position.</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">Enter</div> <p style="text-align: center;">↓</p>	<p>[Digit1 02387]</p>	
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">Online</div>	<p>[Digit1 02387]</p>	<p>The right margin is changed into 2387 dot.</p> <p>The virtual printer is turned Online again.</p>

The effect of the new margin adjusting can be checked in advance using the preview function (see chapter 4.9 Managing Printjobs: **PREVIEW**).

4.7. Saving the Printer Configuration on PC

1. Dial the pulldown menu **File**.

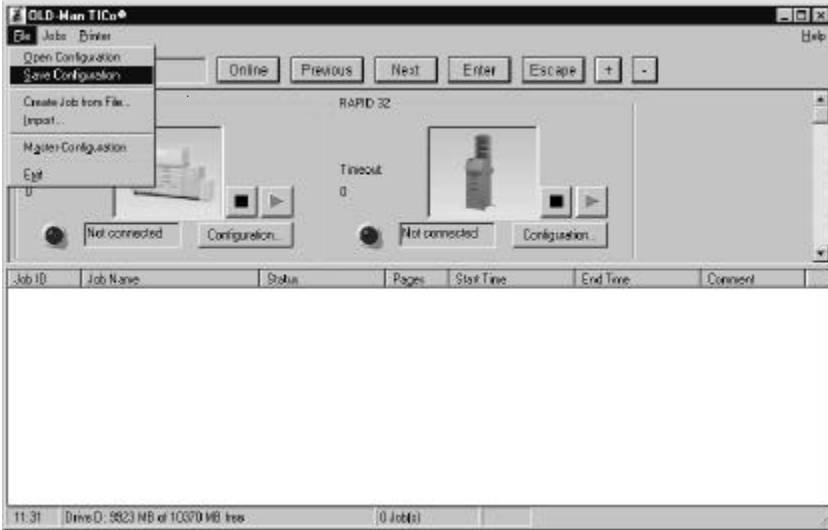


Fig. 4.7.a Main menu of OLD - Man TICo®

2. Select **Save Configuration**.

In the now appearing window you can determine the path and the file name for the configuration file.

If you want to load the saved configuration (later), please select **Open Configuration** in the pulldown menu **File** (see above).

4.8. Receiving or importing Print Jobs

The virtual printer OLD - Man TICo is provided with print data via a Windows NT printerspool.

The received print data streams are interpreted and converted to TIFF pictures (CCITT Fax 4). In this inter-format they are stored in an intermediate memory (compressed).

From there they can be sent to every output device (which is able to print TIFF documents) or they can be sent to a document archive.

4.8.1. Printing from an Application

The printing of a text file made with WinWord for example is carried out like this:

In the WinWord menu please choose
FILE \ PRINT

Printer configuration:

Use the OLD - Man printer as standard printer
(e.g. SOLID 60/A3 at port OLDMAN01).

Printing:

Your textfile will be sent to OLD-Man TICo now and appears in the display for the printjob list (see hint ① in figure 4.9.a).

4.8.2. Generating Printjob from File

1. Dial the pulldown menu **File** from the Main menu of OLD - Man TICo®.



Fig. 4.8.2.a Main menu OLD - Man TICo®

2. Please choose **Create Job from File**.



Fig. 4.8.2.b Create Job from File: dialogue menu "Open"

3. Put in the path and the name of your print file (e.g. file with the extension .PRN or .QUE).

Note:

The printer must be configured according to the print file (if the print file was for example generated with the emulation PCL, this setting is required at the virtual printer, too).

4. Press the **Open** button.

The print file is imported by OLD-Man TICo and appears in the display for the printjob list (see hint ① in figure 4.9.a).

4.8.3. TIFF Import

Using this function you can import TIFF images (format CCITT Fax 4).

1. Dial the pulldown menu **File** from the Main menu of OLD - Man TICo®.
2. Please choose **Import** (see figure 4.8.2.a).

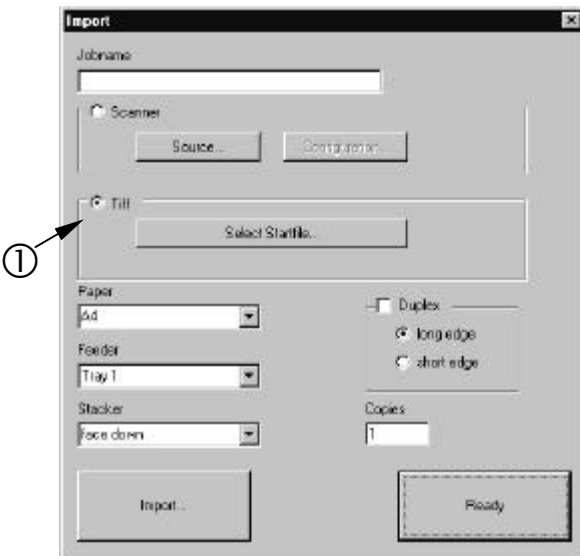


Fig. 4.8.3.a Dialogue menu "Import"

3. Put in a name for the new job.

4. Select TIFF (arrow ① in figure 4.8.3.a).
5. Click the **Select Startfile** button.



Fig. 4.8.3.b TIFF Import: Dialogue menu "Open"

6. Put in the path and the name of your startfile (first TIFF image).
7. Confirm your choice using the **Open** button.
8. Start the import by clicking on the **Import** button (see figure 4.8.3.a).

During the import procedure the page number is counted up automatically (beginning with the startfile). It stops, when the following number is missing.

9. You can close the import window using the **Ready** button.

4.9. Managing Printjobs

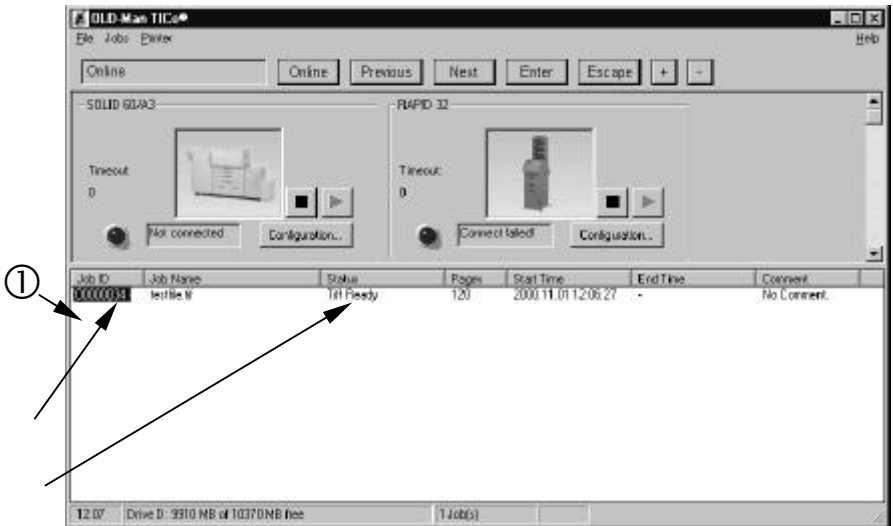


Fig. 4.9.a Main menu OLD - Man TICo®

- ① Display for the printjob list
Printjob's job ID-number

In the display for the printjob list the printjob status is also announced .

On the following pages the individual menus to manage and to simplify your printjobs are described.

A **Shortcut menu** can be opened by selecting the concerning Job ID (Job-Identification; hexadecimal coded). Use the right mouse button for this.



Fig. 4.9.b Shortcut menu

Now the following functions are directly accessible:

- Remove: deletes this print job
- Print: this print job is printed (compare figure 4.9.e Registercard "Print")
- Archive: this print job is archived (compare figure 5.7.a Registercard "Print": Archive Job)
- Convert to TIFF: see also passage e) Tiffing in this chapter

The following menus are all to dial via the main menu of OLD - Man TICo® shown in figure 4.9.a. This is done by double-clicking the left mouse button on the job ID (job identification) of the corresponding printjob and then dialing the corresponding registercard.

a) Job Info

If you want to inquire information to the printjobs resp. effect settings, please go on like this:

Double-click the left mouse button onto the printjob's job ID (in the field for the printjob list / job window, see in fig. 4.9.a).

The following context menu appears:

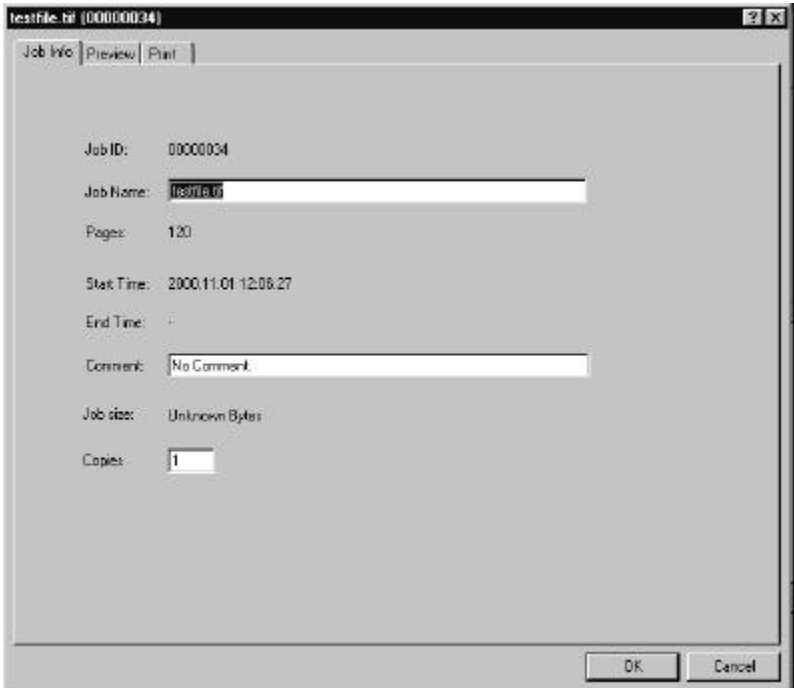


Fig. 4.9.c Registercard Job Info

In the registercard Job Info you can find information on the printjob (see fig. 4.9.c).

Here alterations of the jobname are possible; also you can supply the printjob with a comment. Both opportunities are interesting in the context of archiving (option, see chapter 5 Archiving, too).

b) Preview

Before the printdata are sent (in fact) to a output device (printer), you can have a look at the print image with the **preview** function in advance.

For this select the registercard Preview:

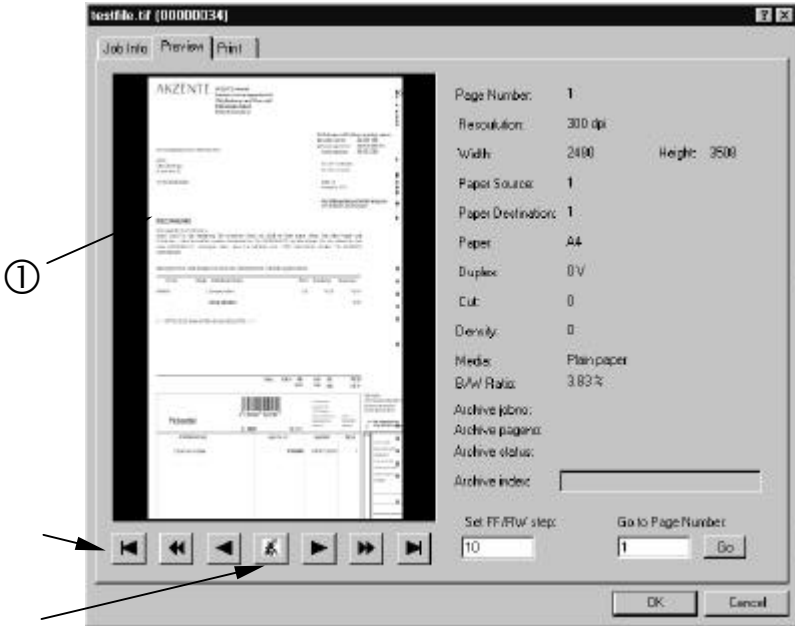


Fig. 4.9.d Registercard Preview

The Preview presentation (window ①) is corresponding to the print image (WYSIWYG: what you see is what you get).

By activating the buttonrow below you can leaf through the pages of the printjob.

If you want a presentation of the printpage filling the whole monitor please activate the key (using that Windows program which is connected to the file type TIFF).

In the right half of the registercard Preview further information on the current selected page of the printjob are announced.

c) **Print (Job printing)**

To send the printdata (of this job) to an output device (printer), please select the registercard Print.

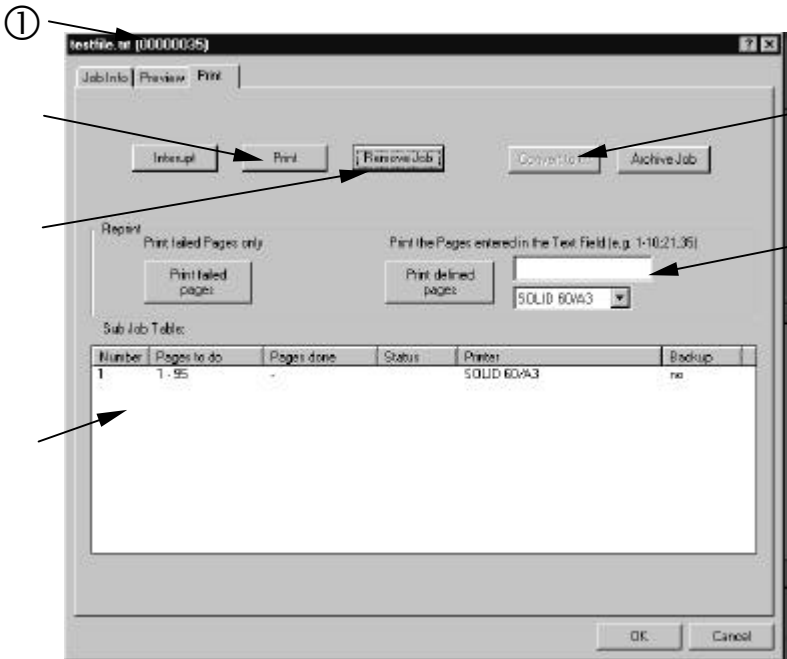


Fig. 4.9.e Registercard Print

- ① Job ID (Job Identification; hexadecimal coded)
- Display window Sub Job Table

1. Activate the **Print** button

By this an outprint of this printjob is released.

In the display window Sub Job Table the printjob's output (resp. the output of separate parts with different printers) is logged.

If you have not selected the option "Auto remove job after Printing/Archive" (see chapter 4.5) in the master configuration for OLD - Man TICo[®], the printjob is to clear manual:

2. If the printjob is printed out completely, activate the **Remove Job** button to clear the job.

d) Reprint

If a printjob has not been printed faultless, please go on like this:

1. Activate the **Print failed pages** button (in fig. 4.9.e center left) to send the rest of the printjob once again to the printer after a misprint e.g.

If only certain pages should be sent to the printer again:

2. Insert the chosen pagenumbers into the input field (in fig. 4.9.e center right), select a certain printer, if necessary, and activate the **Print defined pages** button.

e) **Tiffing**

If a printjob (printdata stream) has only to be compressed, please go on like this:

Activate the **Convert to TIFF** button (see fig. 4.9.e).

The printfile is filed compressed into a buffer (transformation to the standardized TIFF format CCITT Fax 4); no outprint is provided.

5. Archiving (Option)

The On-Line Archive Module facilitates an easy export of print jobs from the host environment to an archive interface (free choice of a directory on the network).

The received print data is compressed (Standardized TIFF format CCITT Fax 4). In addition, OLD – Man TICo is able to create a file containing the index information automatically (the file contains search criteria in the electronic archive in ASCII format).

The archive function is job oriented, i.e. all pages of the job are compressed. These data can be taken and archived by an archive software now.

5.1. Configuration of the Archive Interface

The parameters of the archive interface are set in the dialogue menu Master-Configuration:

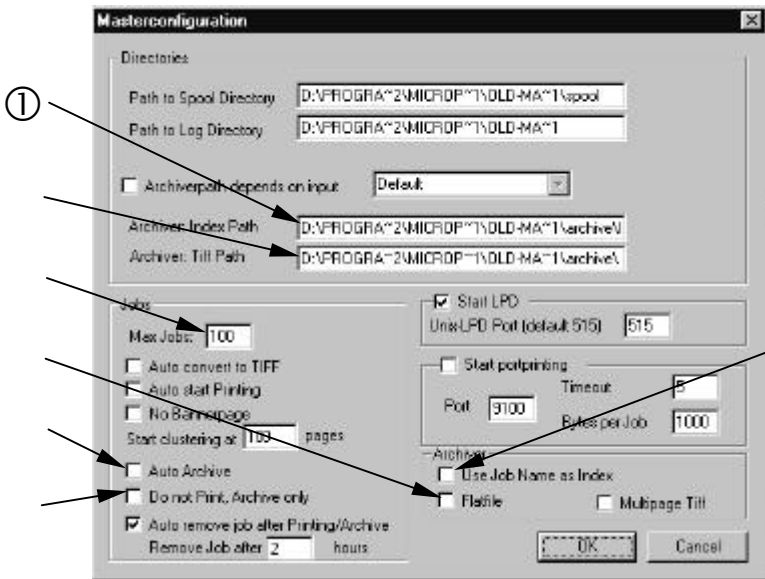


Fig. 5.1.a Parameters of the archive interface
Dialogue menu Master-Configuration

In the dialogue field **Archiver: Index Path** ① you have to type the path for the index data.

If you choose the option **Flatfile** (see note in figure 5.1.a) the name of the TIFF file is then written down in the index file, too.

In the dialogue field **Archiver: TIFF path** you have to type the path for the compressed print files (TIFF files).

(Every print job is stored in the spool directory first, then the TIFF pictures are copied into the TIFF directory, if need be).

Note:

Index path and TIFF path are allowed to be the same.

By the value of **Max Jobs** you define, how many jobs will be done by OLD – Man TICo simultaneously (this is important for the requirements concerning the memory and processor resources...).

By typing a page number into the input field **Start clustering at ... pages** (in the left area of the dialogue menu *Master-Configuration*, see figure 5.1.a) you can prevent, that a small job (with only a few pages) is distributed on several printers (compare figure 4.3.e: the percentile division on several printers that was set in the printer configuration, is suspended).

It is made sure by Configuration that only printed pages are exported.

However, if the option **Do not Print, Archive only** is chosen the data will be archived only.

5.2. Using the Jobname as Index

The indexing is carried out via host commands or it is generated from the job information automatically, if the option **Use Job Name as Index** is active (see hint in figure 5.1.a).

5.3. Indexing a Printjob via Host Commands

There are different possibilities for the indexing of a print job. Because of this the user has to provide the printdata stream to the OLD – Man TICo with the desired job and index information. The corresponding IDOL commands are described detailed in the chapters 5.3.1 up to 5.3.3.

To archive the data records they are provided with pre-defined index values (see IDOL command "Job Index" in chapter 5.3.3) which up from now enable later retrieval in the electronically archive.

With the following IDOL commands index information together with the print data are made available for the software OLD – Man TICo. For this information OLD – Man TICo generates the index file that is put out together with the compressed print data.

With the help of the IDOL commands print orders with more than one page are combined to logical print jobs.

A typical data stream for OLD – Man TICo has got this structure:

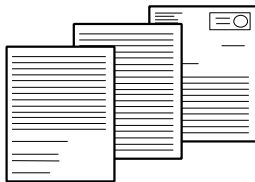
IDOL command for marking
the start of job e.g.:

& % & %na10001

IDOL command for
indexing e.g.:

& % & %ni3008 invoice

documents of the print job



IDOL command for marking
the end of job

& % & %ne10001

5.3.1. IDOL Command Start of Job

Function: The start of a print job is marked with this command. This command sets the printer's internal pagecounter to one. If a print job should be provided with a start and end detection the print job will be delimited by the commands "Start of job" and "End of job".

Syntax: <ESC><ESC>na <n><aaaa> (27)(27)(110)(97)...

Parameter:

<n> =	0..9	: type of command
<n> =	0	: reserved
<n> =	1	: standard
<n> =	2	: autom. incrementing of the job number
<n> =	3..9	: reserved
<aaaa> =	0001..9999	: job number, decimal (specification not necessary if <n>=2 is selected)

Note: The job number "0000" should not be used. This number is assigned automatically, if no job number is defined by the user. The "Start of job" command releases an implied FORM FEED. That means if there are any data in the input buffer they will be put out first before the new job will start.

In case of that two print jobs with the same job number are sent to the OLD – Man TICo in succession the output of the second data file is held back until the previous one is processed by the archiving software!

Example: A print job shall get the number 1122.

```
&%&%na 1 1122
```

5.3.2. IDOL Command End of Job

Function: This command marks the end of a print job. The parameter "job number" has to tally with the one of the job start. By the command "End of job" in combination with the command "Start of Job" a print job is provided with a job number.

Syntax: <ESC><ESC> ne <n> <eeee> (27)(27)(110)(101)...

Parameter:

<n> =	0..9	: type of command
<n> =	0	: reserved
<n> =	1	: standard
<n> =	2	: end of a job with autom. incrementing (see 5.3.1)
<n> =	3..9	: reserved
<eeee> =	0001..9999	: job number, decimal (specification not necessary if <n> =2 is selected)

Notice: The "End of job" command releases an unconditional FORM FEED. That means the page is put out in any case even if there are no data in the input buffer.

If different job numbers are assigned by mistake in the commands "Start of job" and "End of job" the job is handled as default job without job number. Its job number is set to 0000.

Example: The print job 1122 is finished.

```
&%&%ne 1 1122
```

5.3.3. IDOL Command Job Index

By the command <ESC><ESC>ni... an index is defined for an OLD – Man TICo data stream that is important for later data retrieval from the archiving system.

The job index command has got a parameter <P>. By this different index variations can be set.

The validity range can be defined either for the page it is set on or for several pages until the next change.

The index data can be handed off in different ways:

1. Index data with well-known length. The number of index bytes is given together with the index command.
2. Index data with unknown length. Here the first index data character is defined as terminator. Afterwards the following data are used as index data. This will happen as long as terminator character defined at the beginning will appear again.
That means: the defined terminator character is **not** allowed to occur in the index data!

In addition index data can be appended to already existing index information without clearing the already defined index data. The various applications are shown in the following table:

Syntax: <ESC><ESC>ni <2> <T> <z₁ .. z₂₅₆> <T>
(27)(27)(110)(105)...

Parameter: <n> = 2 Index information appending.
Appends information to an existing index without clearing the already defined index data.

<T> = ASCII : terminator definition for index data

<z₁ .. z₂₅₆> : index data (ASCII)

<T> = ASCII : terminator for index data

Syntax: <ESC><ESC>ni <3> <xxx> <z₁ .. z₂₅₆>
(27)(27)(110)(105)...

Parameter: <n> = 3 Index defining. Clears all index information being set up to now. The index set by this command is maintained across page boundaries until the next change.

<xxx> = 000..999 : number of index characters

<z₁ .. z_{xxx}> : index data (ASCII)

Syntax: <ESC><ESC>ni <n> <xxx> <z₁ .. z₂₅₆>
(27)(27)(110)(105)...

Parameter: <n> = 6 Index defining. Clears all index information being set up to now. The index set by this command is only efficient for the page it is defined on. This is also efficient for index information being appended to this index.

<xxx> = 000..999 : number of index characters

<z₁ .. z_{xxx}> : index data (ASCII)

5.4. Information on the Index File

For each print job page put out by OLD – Man TICo as CCITT Fax 4 file a posting in the corresponding index file with the extension .IDX is generated.

With the help of this posting the archive software is able to identify each page of a print job clearly and to enter it together with the index information into the archive.

The index file contains exclusively ASCII characters.

A posting in the index file has got the following formal logic:

|<SP>iiii|<SP>pppp|<SP>ssss|<n0><n1> ... <n254><n255>|<CR><LF>

The meaning:

- | | | |
|------|---|--|
| | : | field separator (7C hex) |
| <SP> | : | SPACE (20 hex) |
| iiii | : | job number, four-digit.
Here the job number has to be posted that is set with the command "Start of job" for this print page.
If no job number was defined "0000" is posted. |
| pppp | : | page number, four-digit.
Here the current page number of the print job is posted. |

ssss : status number, four-digit.
Here the status of the current page of the print job is posted.

Efficient values are:

0000	: reserved	
0001	: first	page default job (job 0000)
0002	: continued	page default job (job 0000)
0003	: last	page default job (job 0000)
0004	: sole	page default job (job 0000)
0005	: repeated 1.	page default job (job 0000)
0006	: repeated continued	page default job (job 0000)
0007	: repeated last	page default job (job 0000)
0008	: repeated sole	page default job (job 0000)
0009	: first	page job ijij
0010	: continued	page job ijij
0011	: last	page job ijij
0012	: sole	page job ijij
0013	: repeated 1.	page job ijij
0014	: repeated continued	page job ijij
0015	: repeated last	page job ijij
0016	: repeated sole	page job ijij

The values 1, 5, 9 or 13 are posted for the page of a job where the IDOL command "Start of job" was set.

The values 2, 6, 10 or 14 are posted for all following pages of a job where no IDOL command for the job control was set.

The values 3, 7, 11 or 15 are posted for the pages of a job where the IDOL command "End of job" was set.

The values 4, 8, 12 or 16 are posted for that page of a job where the IDOL commands "Start of job" and "End of job" were set.

n0 ... n255 : index string being defined with the IDOL
 command "Job Index".

Name Conventions for the Index File

Regular jobs with job number:

<jjjj>0000.IDX

<jjjj> : four-digit job number

For each regular job exactly one index file is generated.

Default job without job number:

0000<pppp>.IDX

<pppp> : four-digit job number

For jobs without job number an index file is generated for each page.

For these jobs no separate status file is generated. This task is taken on by the index file.

5.5. Information on the Status File

Print jobs that are to save in the archive system perhaps consist of several pages. To synchronize the archive software on a print job it needs a signal of the OLD – Man TICo when the last page of a print job was put out.

This signal is put out by the file <jjjj>0000.STS. This file is generated after the output of the last page of a print job in the index directory. It happens if the status number 3, 4, 7, 11, 12, 15 or 16 is set for a page.

The file name contains the job number of the corresponding print job. The file contents is the four-digit job number.

For synchronizing the archive software can inquire the index directory for the existence of the .STS file. If the file is existing, all pages of the print job can be accessed to and a manipulation can be carried out.

Information:

After being manipulated by the archive software the data files and the index files should be cleared in the directories.

If two print jobs with the same job number are manipulated in succession the manipulation of the second job will start only when the data of the first one are cleared in the directory.

5.6. Information on the Data File

The data file follows the same conventions as the index file (see also chapter 5.4).

For jobs with a job number the following file name is placed:

<jjjj><pppp>.TIF

<jjjj> : four-digit job number

<pppp> : four-digit page number

For default jobs without job number the job number is set to 0000.

0000<pppp>.TIF

5.7. Example: The Dr. Grauert Letter

In the following example the Dr. Grauert Letter is used to describe a conversion with OLD – Man TICo.

First the letter is edited as usual with the user's word processing in the same way as it is used for the outprint of the target printer.

Then the text for the archiving by OLD – Man TICo has to be extended with the commands for generating the index file and the job number:

- 1) The IDOL command for the Start of job has to be placed in front.

```
&%&%na10001
```

By this the following print job gets the number 0001.

Information:

This command can either be transferred as separate file to the OLD – Man TICo or it can be edited at the beginning of the print job.

- 2) Defining the index data for the following print job.

```
&%&%ni3018 file GRAUERT.IDL
```

The index data for this print job are: "File Grauert.IDL". These index data have to be registered into the index file later.

Information:

Also the IDOL command for the index data can be transferred in a separated file (or together with the command for the Start of job) to the OLD – Man TICo.

- 3) Now the print data for the Dr. Grauert letter are following.
- 4) Then the IDOL command for the End of job is transmitted.

```
&%&%ne10001
```

%%&nal0001&%%ni3018 File GRAUERT.IDL
&%%B0600&%%D300 100&%%rl

Eilzustellung

Norddeutsche Farbenwerke KG
Herrn Dr. Grauert
Große Elbstraße 64

2000 Hamburg 4

Org. III 5/37 H-A 4 34 22.04.75
17.04.75 Volkmann

Vordruckgestaltung für den allgemeinen Schrift-
verkehr, für das Bestell- und Rechnungswesen E i l t

Sehr geehrter Herr Dr. Grauert,

Sie können das Schreiben der Briefe, Bestellungen, Rechnungen usw.
sowie das Bearbeiten des Schriftguts rationalisieren, wenn die
Vordrucke Ihres Unternehmens den folgenden Normen entsprechen:

- DIN 676 Geschäftsbrief; Vordrucke A4
- DIN 677 -; Vordrucke A5
- DIN 679 Geschäftspostkarte; Vordrucke A6

- DIN 4991 Vordrucke im Lieferantenverkehr; Rechnung
- DIN 4992 -; Bestellung (Auftrag)
- DIN 4993 -; Bestellungenannahme (Auftragsbestätigung)
- DIN 4994 -; Lieferschein/Lieferanzeige
- DIN 4998 Entwurfsblätter für Vordrucke

Diese Normen enthalten alle Einzelheiten für den sinnvollen und
zweckmäßigen Aufdruck. Wenn dazu bei der Beschriftung genormter
Vordrucke DIN 5008 "Regeln für Maschinenschreiben" beachtet wird,
entstehen übersichtliche und werbewirksame Schriftstücke.

Die beigegeführten 6 Mustervordrucke zeigen, daß des Beachten der
Normen die künstlerische und werbewirksame Gestaltung der Vor-
drucke nicht ausschließt.

Da wir uns auf die Herstellung genormter Vordrucke spezialisiert
haben, können wir besonders billig liefern. Eine Probebestellung
würde Sie und Ihre Geschäftsfreunde von den Vorteilen überzeugen.

Mit bester Empfehlung

NORAG
Druckerei und Verlagshaus KG

Herrmann

Anlagen

6 Mustervordrucke
%%&ne10001&%%j

This file is now transmitted to OLD – Man TICo as to any normal printer.

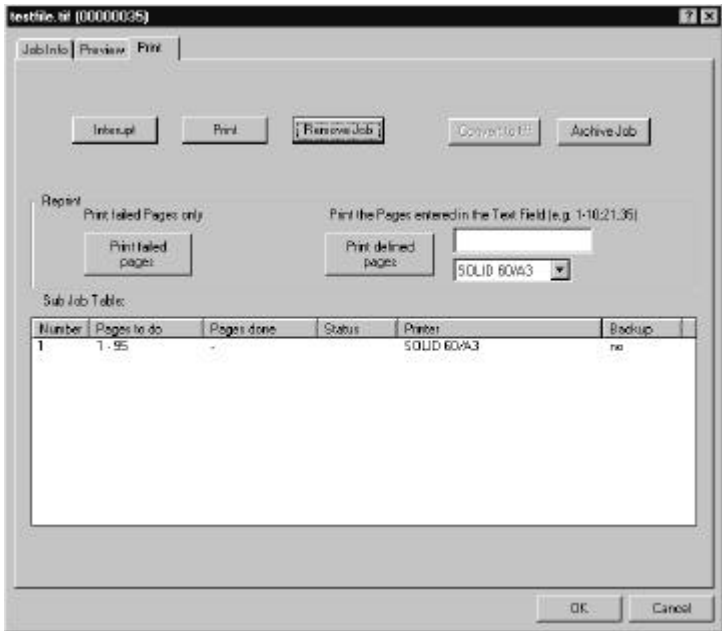


Fig. 5.7.a Registercard Print: Archive Job

The job and index information are evaluated. The print image of the page is edited and compressed to the CCITT Fax 4 format.

The following files are put out:

1) Index file 00010000.IDX with the following contents:

I 0001 | 0001 | 0011 | file GRAUERT.IDL

2) After the output of the data file the status file 00010000.STS with the following contents is generated:

0001

3) The compressed data file 00010001.TIF:

Eilsstellung

Norddeutsche Farbenwerke KG
 Herr Dr. Grauert
 Große Elbstraße 64
 2000 Hamburg 4

Org. III 5/37 H-A 4 34 22.04.75
 17.04.75 Volkmann

Vordruckgestaltung für den allgemeinen Schrift-
 verkehr, für das Bestell- und Rechnungswesen E i l t

Sehr geehrter Herr Dr. Grauert,

Sie können das Schreiben der Briefe, Bestellungen, Rechnungen usw.
 sowie das Bearbeiten des Schriftguts rationalisieren, wenn die
 Vordrucke Ihres Unternehmens den folgenden Normen entsprechen:

DIN 676 Geschäftsbrief; Vordrucke A4
 DIN 677 -; Vordrucke A5
 DIN 679 Geschäftspostkarte; Vordrucke A6

DIN 4991 Vordrucke im Lieferantenverkehr; Rechnung
 DIN 4992 -; Bestellung (Auftrag)
 DIN 4991 -; Bestellungsannahme (Auftragsbestätigung)
 DIN 4994 -; Lieferschein/Lieferanweisung
 DIN 4998 Entwurfblätter für Vordrucke

Diese Normen enthalten alle Einzelheiten für den sinnvollen und
 zweckmäßigen Ausdruck. Wenn dazu bei der Beschriftung gesonderter
 Vordrucke DIN 5008 "Regeln für Maschinenschreiben" beachtet wird,
 entstehen übersichtliche und werbewirksame Schriftstücke.

Die beigelegten 6 Mustervordrucke zeigen, daß das Beachten der
 Normen die künstlerische und werbewirksame Gestaltung der Vor-
 drucke nicht ausschließt.

Da wir uns auf die Herstellung gesonderter Vordrucke spezialisiert
 haben, können wir besonders billig liefern. Eine Probebestellung
 wird Sie und Ihre Geschäftsfreunde von den Vorteilen überzeugen.

Mit bester Empfehlung

MORAG
 Druckerei und Verlagshaus KG

Herrmann
 Anlagen
 6 Mustervordrucke

The following comparison results from this example:

Size of the source file : 1.776 Byte

Size of the uncompressed
image file : 1.06 MB

Size of the compressed
CCITT Fax 4 file : 35 kB

Only a file of 35 kB size has to be stored in the user's archive system, in doing so the total not compressed information (NCI) of the uncompressed file are available.

6. Appendix

6.1. Licence Contract

MICROPLEX GmbH

Licence contract for end users

Please read carefully: This is a legally valid contract between you (either as a natural or as a legal person) and the software manufacturer whose address is given below:

MICROPLEX Elektronische Dokumentationssysteme GmbH
Panzerstraße 5
D – 26316 VAREL

Here we want to point out the provisions of our licence contract and the guidelines for observing them.

Using the software

You are allowed to install the software as often as you want and to originate a backup copy. You can use the software only on one server, because the software is secured via a serial number and a hardware dongle that is delivered with each program.

You are not allowed to sub-licence, to rent out, to lend or to lease the software or its accompanying material.

Copyright

The software is copyright property of MICROPLEX and is protected according to U.S. copyright laws, international contracts and relevant laws of the country in which it is used.

You are not allowed to copy the printed materials that accompany the software.

Guaranty

The parties to the contract agree that it is not possible to develop data processing programs that operate without flaws in all application conditions. MICROPLEX guarantees that the accompanying material accurately represents the software program and its appropriate uses. MICROPLEX gives no guaranty that the program (including the accompanying material) will meet all of your requirements and applications. You accept the exclusive responsibility for the selection and the consequences of the employment of the program and also for the results obtained.

General Stipulations

German laws are applicable to this contract.
Violations will be prosecuted.

6.2. Hints for Configuring a Print Server

In the following text you can find exemplary hints for configuring the Microplex Print Server M 205 and for testing the reverse channel capacity of the connected printer. In case of your installation variations are possible.

Information: Please pay attention to the information supplied to the Print Server and the operating instructions of the devices!

1. Connect the Print Server Box to the power supply and network.
The network connection has to be carried through at the same physical network row where the PC is connected, that is intended for the configuration of the box.
2. Put the following command into the DOS Box of Windows NT:
ARP -s <IP address> <Ethernet address>
The Ethernet address is written on the box
(e.g. arp -s 192.168.1.80 00-80-72-03-2b-73)
3. The connection with the box can be checked with the following command:
ping <IP address>
For instance the following message appears on the monitor:
d:\>ping 192.168.1.80

Ping is carried out for 192.168.1.80 with 32 bytes data:
answer of 192.168.1.80: bytes=32 time=10ms TTL=30
answer of 192.168.1.80: Bytes=32 time <10ms TTL=30
answer of 192.168.1.80: Bytes=32 time <10ms TTL=30
answer of 192.168.1.80: Bytes=32 time <10ms TTL=30

4. For testing the connection e.g. with the program Telnet please start with the following command:
telnet <IP-address>

5. In the program Telnet put in at "login":
root
"Password" confirm with
Enter

6. Please put in the following commands
store net 1 addr <wanted IP address e.g. 192.168.1.80>
store net 1 mask <wanted netmask e.g. 255.255.255.0>
set dest d1prn backchannel prn
save
reset

7. Check the connection with Telnet.
Under Telnet a connection with the set IP-address (in the example 192.168.1.80) port 4400 is made.

If the box is connected with a printer with reverse channel capacities, the printer's status messages have to appear in the Telnet window.

Reset of the Print Server (backout on factory defaults):

Turn the dipswitch 2 at the Print Server's rear side to the position ON. Now the Print Server loads factory defaults when starting (Factory Default Settings, incl. the default IP address).

Please notice: Your default values being stored in the Print Server's EEPROM are not yet cleared by this.

Now the operation steps 1 to 5 have to be carried through corresponding to the description above.

After this please employ the commands **save default** or **store tcpip from default** to overwrite the old (incorrect) default values being stored in the EEPROM with the factory defaults.

Now you can continue configuring the Print Server and checking the connection.

Turn the dipswitch 2 to the position OFF (default), so that your new defaults are employed.

6.3. Index

A

archive parameters 71
archiving 70
archiving, On-Line 11, 32
auto convert to TIFF 43
auto start printing 43

B

backchannel 16, 94
backup printer 38, 39
buttons, control panel 48

C

CCITT Fax 4 file 82
change of function 46
clustering 10, 31, 72
configuration button 41
configuration data, status sheet 51
configuration virtual printer 45
configuration, saving on PC 58
contents 3
control panel / virtual printer 45
control window, printer 37
control window, printer 40
conventions 14
convert to tiff 69
copyright 22, 92

D

danger 14
data file 86
data stream 73
directories, group 43
dongle connection 18
Dr. Grauert letter 86

E

Enter button 48
example 86

F

factory default, virtual printer 55
flatfile 71
function, systematic structure of 12

G

guaranty 93

H

help function 29

I

IDOL commands 75
import TIFF 61
index file 82
index path 71
installation 18
installation OLD - Man TICo® 21

J

job 43
job identification 64
job index 77
job info 65
job name as index 73
job printing 67
job, auto remove 44
job, basic settings 43
job, end of 76
job, start of 75
job-identification 64
jobs, max value 72

L

licence contract 92
license contract 22

M

main menu 29
margin 56
master-configuration 42
menu page, virtual printer 54
menu structure / virtual printer 47

N

network, addr. + portno. 35
normal print, virtual printer 53

O

operating functions 28
operation system 16

P

panel display 50
PC-sytem requirements 16
permanent conf. changes 46
preface 7
preview 66
print 67
print defined pages 68
print failed pages 68
print image, preview 66
print jobs 73
print server, configuration 94
printer configuration 33
printer connection 18
printer, add 33
printer, requirements 16
printing, auto start 43
printjob, distribution 38
printjob, managing 63
printjob, receiving/importing 59
printjob, status 63

R

remove job 68
reprint 68
requirements, hardware+software 16
retrieval 73
reverse channel 16
reverse channel support 94

S

shortcut menu 64
spool directory 43
spooling, controlled 9, 31
start OLD - Man TICo® 28
status file 85
status sheet 51
sub job table 68
supply, extent of 15
symbols 14
syntax of diagrams 50

T

temporary conf. changes 46
text margins, virtual printer 56
TIFF import 61
tiff path 43
TIFF path 72
tiffing 43, 69
timeout 39
transportation damages 15

V

virtual printer 8, 45