

Windows 3.0 PostScript Fix

Mannesmann Tally Universal Publishing System Windows 3.0 PostScript Fix

The accompanying diskette contains a program that will make changes in the PSCRIPT.DRV PostScript printer driver which comes with Windows 3.0 so that it can be used to drive the Mannesmann Tally Universal Publishing System hardware and PostScript compatible software in standard or enhanced mode. We have been using a similar driver (designed for Imagen's PC Publisher Kit Series II) for almost six months on a broad range of Windows 3.0 applications with complete success. Programs tested include: Microsoft Word for Windows, Microsoft Excel, Microsoft Paintbrush, Aldus Pagemaker, Ventura Publisher, Corel Draw!, Logitech Ansel, and Assymetrix Toolbook — enough to suggest general Windows 3.0 compatibility.

The enclosed program has been designed to extend the useable life of Mannesmann Tally's Universal Publishing System, which has been seriously undermined by Imagen's purchase by QMS and QMS's subsequent failure to support the Imagen PostScript compatible hardware board and software used by Mannesmann Tally in its system. It is *not* designed to enhance this product. Nor is it designed to fix any of the limitations inherent in the PostScript compatible hardware board and software itself. This system, last updated in 1988, is growing old and, consequently, some of the features of the newest versions of the PostScript language are not supported. Hence, it will not be able to handle some of the more sophisticated output of cutting-edge Windows 3.0 graphics programs (complex fountain fills from Corel *Draw!* for instance, will not in all cases print. Corel notes this problem with 1st generation PostScript implementations). This is a function of the original product, not of the enclosed driver fix.

Description

The setup you will end up with after running the enclosed program, **MTWINFIX**, can be described briefly as follows: Since the Mannesmann Tally UPS hardware board has a non-standard interface, any printer driver not specifically written for it must gain access to it indirectly. The original UPS software provided a utility for this purpose, **PCONTROL.EXE**. This utility must be installed in order for the fixed Windows PostScript driver to work. It is described in Chapter 4 of the Mannesmann Tally Publishing Systems *Installation and User's Guide, Manual Number 311* (pp. 4-1 to 4-10). **PCONTROL** can capture and direct to the PC Pub Kit hardware Postscript data sent from Windows via a printer port named **LPT1.PRN=**. This port is set up by **MTWINFIX**. Finally, between the printer port and Windows applications is the print driver, in this case called **PSCRIPT.DRV**. The main function of **MTWINFIX** is to alter the code this driver at various points so that it can accommodate peculiarities in Mannesmann Tally UPS's implementation of the Postscript Language.

The Windows PostScript driver is designed to accommodate a number of printers which are listed in a drop-down list box entitled "**Printer.**" After running **MTWINFIX**, two new entries will appear on this list: **Mannesmann Tally UPS** and **Mannesmann Tally UPS [up]**. The first accommodates the MT910 printer/UPS PostScript output to the face-down tray; the second accommodates system output to the face-up tray. Three input tray sizes are supported — **Letter**, **Legal**, and **A4** — in both portrait and landscape modes.

The use of **PCONTROL** necessarily limits the handshaking ability of the driver. There are only two instances where this "one-way" communication turns out to be a problem. First, when changing from one paper tray to another the user must make sure to set any but the default paper size (Letter) manually, as the driver will always default to that paper size. Second, errors in printing do not result in an on-screen error message, only in **PCONTROL**'s

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audible beep signals.

Mannesmann Tally Universal Publishing System Orientation

There are 3 files on the accompanying diskette:

MTWINFIX.EXE

program

AUTOEXEC.TXT

script to add to AUTOEXEC.BAT

In addition to these files, MTWINFIX needs access to the following files which it makes changes to or reads during the course of its operation:

File to be Changed	Description	Default location
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PSCRIPT.DRV	standard Windows 3.0 driver	C:\WIN\SYSTEM\ WIN.INI
PI_INIT.PS	Mannesmann Tally UPS header	C:\MT\FONTS\ *.PFM
PCONTROL.EXE	LPT1: capture utility	C:\MT\ LPT1: capture utility

Your own directory paths should not be much different from the ones listed above. If they are (your Windows directory is "D:\W", for instance), MTWINFIX allows you to change them, but be sure you know what they are before you enter the program.

Installation Procedure

1. Make sure that both your Mannesmann Tally Universal Publishing System and Windows 3.0 are properly installed in your system.
2. Use the Windows Control Panel to install the standard Windows PostScript driver, **PSCRIPT.DRV**. Although most Windows PostScript drivers are called PSCRIPT.DRV, only the Windows 3.0 PSCRIPT.DRV will work, so make sure this is the driver in your WIN\SYSTEM\ subdirectory.
If you have a PostScript driver already installed (and you probably do have the Mannesmann Tally IPS.DRV installed), it should be removed completely from your Windows 3.0 environment. The best way is to make sure *all* PostScript printer drivers are removed from your WIN\SYSTEM\ subdirectory and from your WIN.INI file. Your WIN.INI file can be easily edited by using the SYSEDIT.EXE program that comes with Windows 3.0 (Windows 3.0 Setup puts this program, for some unknown reason, into your WIN\SYSTEM\ subdirectory).
3. Run **MTWINFIX**. This should take only a few minutes. If it takes longer, then it's trying to fix a PSCRIPT.DRV other than that which came with Windows 3.0.
4. Use a text editor to update your **AUTOEXEC.BAT** file with the following lines from the **AUTOEXEC.TXT** file (making sure that all directory information is correct):
c:\mt\mtload -p -w c:\mt
c:\mt\pcontrol
5. Reboot your system and enter Windows in either Standard or Enhanced mode

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(unless you're using DOS programs, Standard mode is actually faster).

6. Enter Windows and, using the Control Panel, configure the PostScript printer. When you select the "Printers" icon you should see in the "Installed Printers" list box an entry entitled "**PostScript Printer on LPT1.PRN**". If you see this entry, select it and go through the standard procedures to make it active, making sure that you've selected the "**LPT1.PRN**" printer port and the "**Mannesmann Tally UPS**" printer. (It should, in fact, already be set up)

If you do not see it, then **MTWINFIX** has not configured your WIN.INI file correctly. This is probably due to there having been a [PostScript Printer, ...] entry already in the WIN.INI file before you installed the Windows 3.0 PSCRIPT.DRV. You can correct this by manually editing your WIN.INI file to remove all extraneous {PostScript Printer, ...} sections, and then running MTWINFIX again (skip over PSCRIPT.DRV fix option when asked). Your PostScript Printer section should look something like this:

```
[PostScript,LPT1.PRN]
softfonts=35
softfont1=c:\mt\fonts\pfm\avgbk.pfm
softfont2=c:\mt\fonts\pfm\avgbkobl.pfm
:
:
softfont34=c:\mt\fonts\pfm\centi.pfm
softfont35=c:\mt\fonts\pfm\centr.pfm
device=15
feed1=1
feed15=1
orient=1
header=0
```

This list of soft fonts, with their proper path names, must be present in the PostScript section of your WIN.INI file for you to have access to them. The standard fonts will work without explicit soft font designation, but any other fonts must be explicitly listed. **MTWINFIX** has left out the Dingbats font on purpose. DO NOT enter it in manually.