Windows LPR Spooler Version 4.0d

A Network Printer Spooler for Microsoft Windows 3.1

User's Guide

July 22, 1995

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This document was created with Microsoft Word for Windows 6.0

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Introduction

Windows LPR Spooler 4.0, in the following text abbreviated as *WLPRSPL*, is a program which allows transparent printing from Microsoft Windows 3.1 applications to network printers. WLPRSPL allows you to define a large number of remote printers which may be addressed through different Protocol DLLs.

Included in the package are the following Protocol Libraries:

- WLPR2.DLL which implements the *Line Printer Daemon (LPD, RFC1179)* protocol that is widely used on UNIX hosts.
- WJETDIR.DLL which allows printing to HP LaserJet printers or other network printers that accept print jobs being sent to a specific TCP port.

DLL's that support other network printing protocols will be developped over time. For details on which Protocol DLLs currently exist, please contact the author.

Requirements

The following components are required to run WLPRSPL:

- Microsoft Windows 3.1
- WLPR2.DLL or compatible Protocol DLL(s).

If the spooler is used together with the included Protocol DLLs, the following additional components are required:

- TCP/IP networking software for the PC that offers a WinSock 1.1 compliant WINSOCK.DLL.
- WSOCKAID.DLL Version 1.0 or later. Users that run a TCP/IP stack other than FTP Software's should note the comment in the ***"Installation"*** section below.

Package Contents

This package, whether you received it as PKZip archive or on floppy disks, contains the spooler (WLPRSPL.EXE) and the supporting libraries WLPR2.DLL Version 2.0d, WJETDIR.DLL 2.0, WSOCKAID.DLL Version 2.0c, and CTL3DV2.DLL Version 2.20, as well as this documentation in form of a PostScript file and a plain ASCII version.

The following files are included in the standard distribution:

WLPRSPL.EXE	The main program.
WLPRSPL.PS/.ASC	Program documentation.
WLPR2.DLL	The Protocol DLL which supports the LPR/LPD protocol.
WLPR2.PS/.ASC	The documentation for WLPR2.DLL.
WJETDIR.DLL	The Protocol DLL which suppors HP JetDirect printers.
WJETDIR.PS/.ASC	The documentation for WJETDIR.DLL.
WSOCKAID.DLL	A supporting DLL that contains functions missing in WINSOCK.DLL.
WSOCKAID.PS/.ASC	The documentation for WSOCKAID.DLL.
WSAIDCNF.CPL	A Control Panel extension that allows the setting of the username for WSOCKAID.DLL.
CTL3DV2.DLL	A DLL that allows dialog boxes to have a 3D look.
CTRLD10B.ZIP	An archive that contains a small utility with which one can enable/disable the generation of a leading Ctrld-D for any installed PostScript printer driver.

How Does the Spooler Work?

Every printer used within Windows is connected to a so-called "port." Examples are LPT1, LPT2, COM1, COM2 etc. But those ports can also be normal disk files. When you add the line

```
C:\SPOOL\PRINTER.DAT=
```

to the [ports] section of WIN.INI you may later connect a printer driver to this "port." Every print job sent to this port is written to the specified file. This is what WLPRSPL relies on. WLPRSPL uses a dedicated directory on the PCs hard disk for spooling (i.e. C:\SPOOL). This directory has to be specified the first time you start the program. For each network printer that you want to print to you have to make up a unique spool file name (i.e. HP.PCL for a HP LaserJet in PCL mode). This file name together with the chosen spool directory forms the port (in this case C:\SPOOL\HP.PCL) to which an appropriate Windows printer driver can be connected. The filename without path represents the local queue.

A remote printer is defined by the local queue name as described above, the remote printer name, the host name of the computer that acts as printer server, and the name of the Protocol DLL to be used for connecting to the remote printer. The definitions of all remote printers are kept in a Queue Definition File (which will be abbreviated as QDF from now on). When starting the spooler for the first time, you have to specifiy the location of this file. It may either be located on a local drive, but it could also be on a shared network drive where it is maintained by some network printer administrator.

You define remote printers by filling in the information described above into the "Edit Queue Data" dialog. WLPRSPL automatically adds the chosen spool file name prepended with the spool directory name as a new port to the [ports] section of WIN.INI. Then you can later install an appropriate printer driver for this remote printer and connect it to this port.

When you print to such a network driver from a windows application, the printer data is written to the corresponding spool file. WLPRSPL then puts the file into its own queueing system and sends the data to the remote printer.

Installation

If you received the program as a PKZip archive, create a temporary directory on your harddisk, uncompress it with

```
PKUNZIP WLPRS40D.ZIP <temp-directory>
```

or a compatible decompression program and then start <tempdir>\SETUP from Program Manager. If you got the package on a floppy disk just start d:\SETUP with d: beingthe correct floppy drive letter.

The setup program will then guide you through the installation process. You will be prompted for the destination directory where WLPRSPL shall be installed; and for a Program Manager group where an icon for the spooler will be created. Then all files will be copied to their destination directories, and the spooler icon is added to the desired Program Manager group (which is created if necessary). Since some support libraries like the Protocol DLLs are copied to the WINDOWS\SYSTEM directory and might thus replace some older shared copies, Windows might have to be rebooted in order to free the files in case they are currently in use.
If you want WLPRSPL to be automatically launched when Windows is started, copy the spooler's icon to your Startup group. This group's name is language dependent, check your Windows documentation for the correct name, as well as on how to copy icons from one group to another.

A note about WSOCKAID.DLL: This is a network software vendor specific DLL containing a few functions that WINSOCK.DLL does not offer. Currently you will not get this DLL from your vendor. The version in this pack directly supports FTP Software's PC/TCP and Microsofts MS-TCP32 for Windows for Workgroups 3.11. The function that WLPRSPL (or better WLPR2.DLL) uses is retrieving the user's login name. If you use a different stack than those mentioned above, you can use the Control Panel to define the username. If you open Control Panel you will see a new icon after the installation of the spooler (see at right). If you double-click it, you open a dialog where you can specify the username. If your TCP stack includes a Windows network driver (like FTP Software's PC/TCP and Microsofts Windows for Workgroups 3.1x does) then the spooler will normally inquire the username by use of this driver. In this case you will be told so when you open the "Set Username" Control Panel applet. You could then enable the check box labelled "Always use this username, even if the networking software would supply one".

Note that the username is the only thing which WLPR2.DLL retrieves through WSOCKAID.DLL. All other information that WSOCKAID.DLL can give (as described in WSOCKAID.ASC or .PS) is ignored. The local PC hostname for example is retrieved from the networking software directly (through WINSOCK.DLL), which means that you have to have a PC hostname configured in your networking software. Protocol DLLs other than WLPR2.DLL may behave differently. Refer to the corresponding DLL documentation.

For further details concerning the included DLLs please take a look at the corresponding .ASC or .PS files.

Installation under Windows 95

If you want to install the spooler under Windows 95 just follow the instructions above. It should run ok under this operating system. When you then install printers that you want to connect to a WLPRSPL port make sure they are installed as local printers and not as network printers. Only local printers can be connected to the port that WLPRSPL creates. Network printers are those that are directly supported by Windows 95 like Lan Manager / NetBIOS based printers or printers on NetWare servers.

If you upgrade ...

If you upgrade from Version 3.x to 4.0d, WLPRSPL will recognize this the first time you start the new version. You will be prompted if the settings of the old version shall be retained. If you accept this, you will further be prompted if the old Queue Definition File shall be converted to the new format (which now is in standard Windows .INI format).

The old Queue Definition File must be writable when you choose to update it automatically. So if you have a shared QDF on a network drive you should start the new version on a PC with write access to this file first. It then gets converted, and on all other PCs you can skip the conversion when WLPRSPL 4.0d is started there for the first time.

You can later load 3.x style QDFs with the Setup/Queues/Load queue definitions... menu option. The program automatically determines that the file is not a 4.0 QDF and asks if the file shall be read as 3.x QDF. After the file is read you can save it as 4.0 file.

Note that the spooler settings are no longer kept in WIN.INI but in WLPRSPL.INI in the Windows directory.

First Start

When you start WLPRSPL for the first time you have to specify the spool directory you want to use. In the dialog that appears you can also create new subdirectories. Once you have selected the spool directory, you have to define the place where the QDF shall be located. It is possible to use a shared QDF that resides on a network drive and which is maintained centrally. The file that you specify does not have to exist at this time. It will be created as soon as you define the first queue in WLPRSPL.

After this first time configuration you may define local queues for all remote printers you want to utilize. This is described in the next section. Then you should install appropriate Windows printer drivers for your network printers and connect them to the corresponding port.

Adding/Changing Network Printer Definitions

In order to define new network printers in WLPRSPL start the program if not yet running, restore the program window if the program is iconized, and select the menu option Setup/Queues/Define new queue... or press Alt-Insert. A dialog appers where you can enter a new printer definition. The fields in this dialog have the following meaning:

Field:	***Meaning:***
Local Spool File Mame:	Name of the spool file (without path) that shall be used for the local queue.
Remote Printer Name:	Name of the queue on the remote print server.
Remote Host Name:	Internet host name or IP address of the remote print server.
Protocol DLL to be used:	Specifies the Protocol DLL to be used for this remote printer. It may be either the name only (in which case the file must be in the current directory, in the WINDOWS or WINDOWS\SYSTEM directory, or in a directory specified in the PATH environment variable) or a fully qualified path name. WLPR2.DLL is the default for new queues.

After filling in all fields you can review/change the options that are in effect for this queue by pressing the Queue properties... button. The options available depend on the specified Protocol DLL. For the meaning of those options please refer to the DLL's documentation. Note that the field "Remote Printer Name" does not necessarily need a value. This depends on the Protocol DLL used. The LPR/LPD Protocol Library WLPR2.DLL for example needs a printer name whereas the HP JetDirect library WJETDIR.DLL does not need one.
When you press OK in the "Edit queue data" dialog, a new port is created if needed. Now you can go to the Control Panel/Printer Setup, install a printer driver that matches the remote printer, and connect it to the corresponding port. Take care that all printer characteristics you define match the remote printer. Normally a datastream from a Windows printer driver overrides settings of the remote printer defaults. If you select settings that the remote printer does not support it may hang.

After installing the printer driver you may print to the remote printer from any Windows application.

If you want to change the definition of a remote printer, select it in the main window listbox and click the menu option Setup/Queues/Edit queue data... or press Alt-Enter. You get the queue setup dialog box with the currently valid values filled in, ready to be altered.
Changes to queues are not automatically saved. This has to be done either through Setup/Queues/Save queue definitions, or by accepting the automatic saving when WLPRSPL (or Windows) is terminated.

Adjusting WLPRSPL Operating Parameters

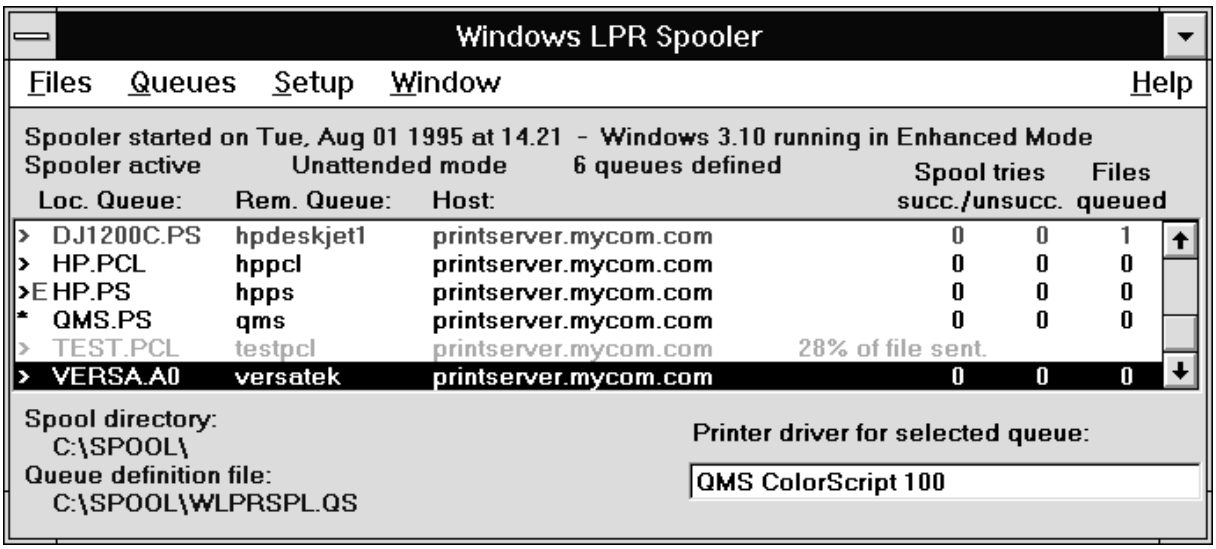
Through the menu (Setup/Preferences...) you can get to a dialog box where you can change the following operating parameters of WLPRSPL.

Option:	***Meaning:***
Timer ticks in sec.	This entry defines the time steps used by WLPRSPL to periodically check for possible spool files. It can be 0 which means that this feature is disabled. With this feature enabled it is possible to create spool files in DOS sessions and have them automatically entered into the WLPRSPL queueing system (see Usage Notes). Under Windows NT and Windows 95 this feature is not available, and this option is grayed. Default is 0.
Warn if suspended	When this check box is activated (default), you get a warning every time you print to a remote network printer if the spooler is currently suspended. Default is on.
Unattended mode	When this check box is activated, the spooler is in "Unattended Mode". This means that the user is not notified of spooling errors. Instead the faulty queue is temporarily disabled, and is re-enabled after the number of seconds specified. Default is on.
Automatically re-enable queue after ... sec.	If unattended mode is on, this entry specifies after how long a failed print file transfer is retried. Default is 300 seconds.
Warn if Print Manager is deactivated	If your system runs without Print Manager handling print jobs automatically and this option is activated, you will get a warning message upon startup and when you disable Print Manager in Control Panel/Printers. Without Print Manager being enabled, the spooler cannot inquire the job names of print jobs and might miss print jobs under certain circumstances.
Hide main window on program startup	If enabled, WLPRSPL will start with a hidden main window (so that there will be no trace of it on the Windows desktop). Refer to the section ***"Usage Notes"*** below to learn how to handle WLPRSPL when its main window is hidden.
Do not prompt when spooler is closed	Normally, the spooler prompts the user with a confirmation message when he closes the spooler's window. This can be disabled if the spooler is used together with login/logout utilities that close all running applications without leaving Windows.

Normally you can leave the default values as they are. If you notice a performance degradation on slow PCs due to the spool file polling set the *Timer Ticks* to a higher value, or set it to 0 if this feature is not needed.

WLPRSPL Running ...

When WLPRSPL is active you normally don't notice anything of its existance because the spooling is done in the background. The WLPRSPL main window always shows you what is currently going on (see screen shot below):



You see the following information being displayed:

- the time the spooler was started
- the mode in which Windows is running (Standard or Enhanced)
- the current state of the spooler (suspended or active)
- the current run mode of the spooler ("unattended" or "interactive")
- the currently used spool directory
- the currently used Queue Definition File
- a listbox displaying the states of all local queues (more detailed description below)
- the Windows printer driver used for the currently selected (and therefore highlighted) queue
- transfer progress status when a queue is active spooling a file

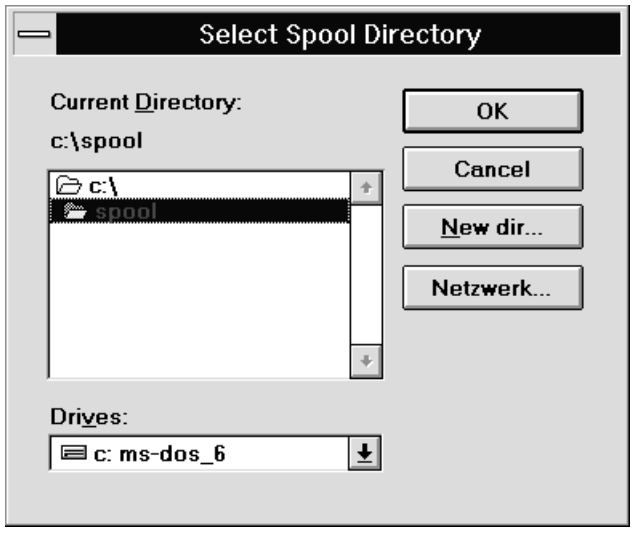
The individual columns in the listbox have the following meaning:

Column:	***Meaning:***
Symbol	If blank the local queue is currently not connected to a printer driver, if ">" it is connected, if "*" it is connected and is currently selected as default printer.
Red "E"	If present, it indicates that there was some spool error. You can check this error with the Queues/Show last error... menu option and remove the flag with the Queues/Clear error flag menu option.
Loc. Queue	Name of the local queue (and of the spool file).
Rem. Queue	Name of the queue on remote print server.
Host	Name of remote print server.
Spool tries unsucc./succ.	Number of print jobs sent over this queue since WLPRSPL was started or since the queue statistics were reset, and number of times the current spool file in a queue failed to be sent.
Files queued	Number of unsent print jobs.

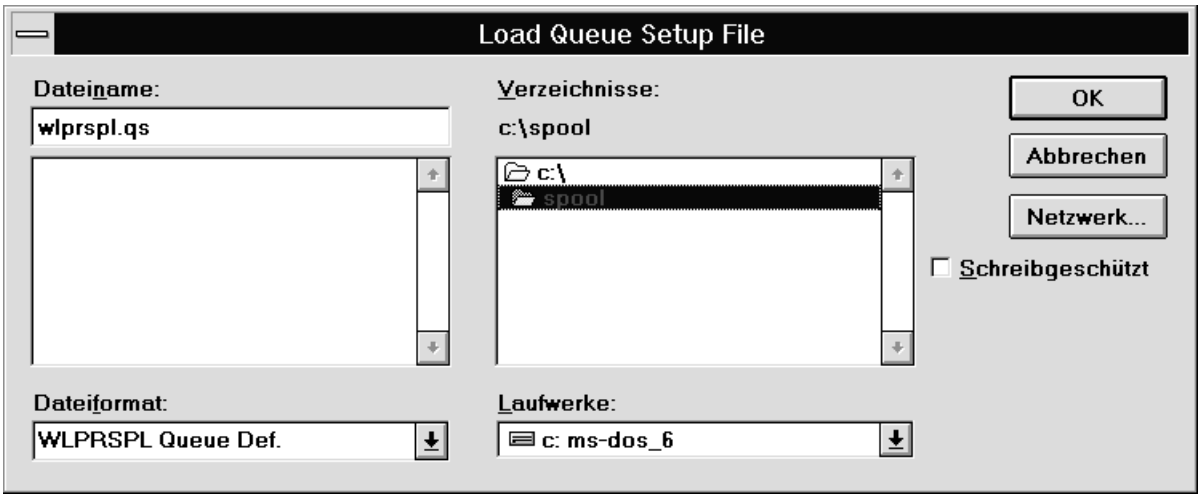
Permanently disabled queues (that means "disabled by user") are shown with red text. A temporarily disabled queue (disabled because of spool error in unattended mode) is shown with yellow text. A queue that is active sending a print job is shown in green, and the statistics are replaced with a progress message.

A Sample Setup Session

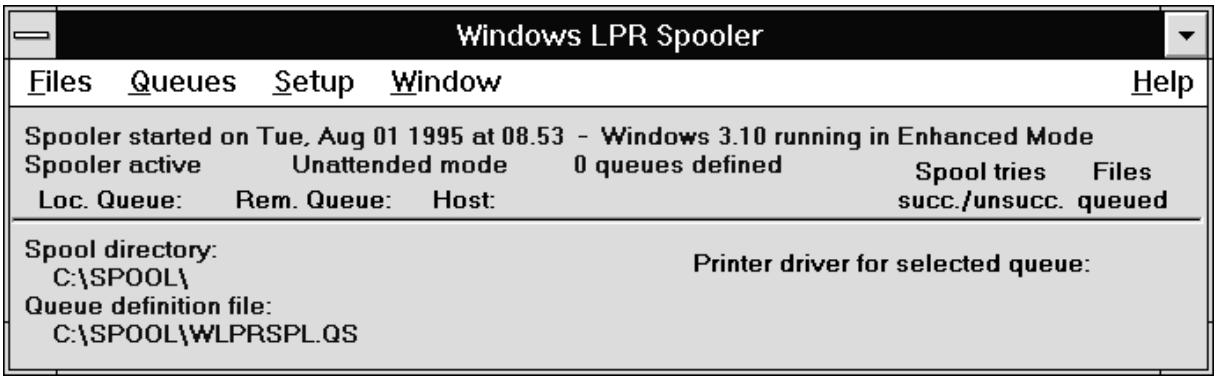
Let's suppose you have freshly installed WLPRSPL and you start it for the first time. First you are asked to select the spool directory you want to use. WLPRSPL displays a dialog that allows you to walk through your directories and select one of them. You can also create a new directory if you click on „New dir...". In the example screen shot on the right the directory C:\SPOOL was selected. Note that you should not nest the spool directory too deeply because a long path name could create problems with some applications as soon as you try to print from them through WLPRSPL.



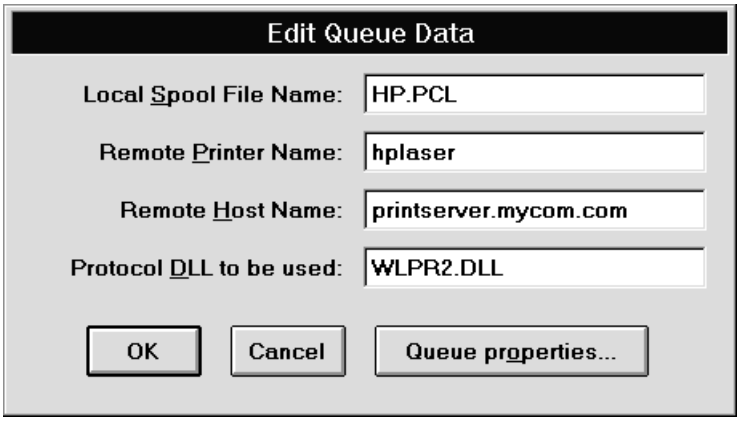
The next thing to do is to tell the spooler where it shall keep its Queue Definition File. You get the following file selection dialog:



Default for the QDF location is the file WLPRSPL.QS in the previously selected spool directory. Let's suppose that you accept this by clicking OK. You then see the spooler's main window (if you have the unregistered shareware version you will also get a notification message which must be acknowledged by clicking OK):

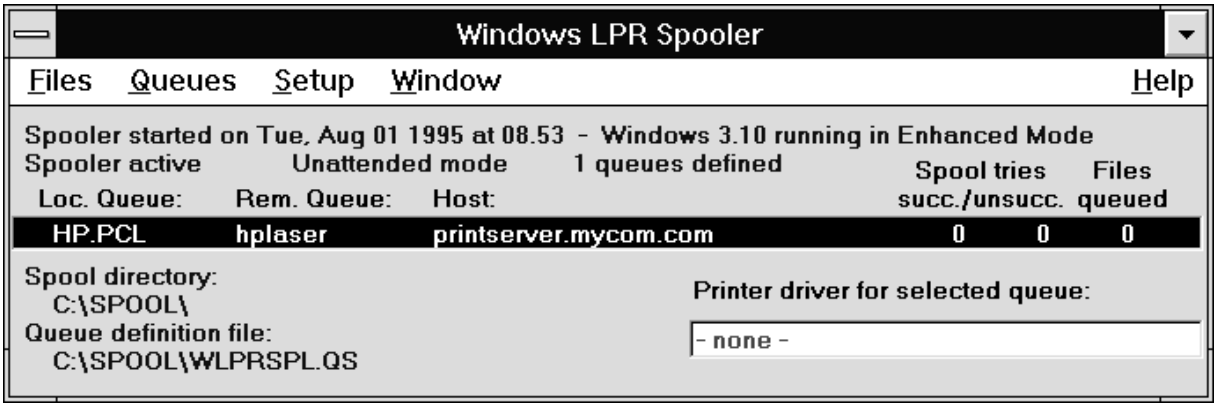


Currently there are no queues defined. You will now define one. Let's assume you want to access a HP LaserJet IIID which is connected to a server called printserver.mycom.com and has the name hplaser. You will call the local spool file HP.PCL. So you select Setup/Queues→/Define new queue... from the menu and get the following dialog:



Here you fill in all the info from above. The printer server talks the LPR/LPD protocol, so you keep the default protocol DLL WLPR2.DLL. When you accept this the spooler automatically generates a new port called C:\SPOOL\HP.PCL= in the [ports] section of WIN.INI.

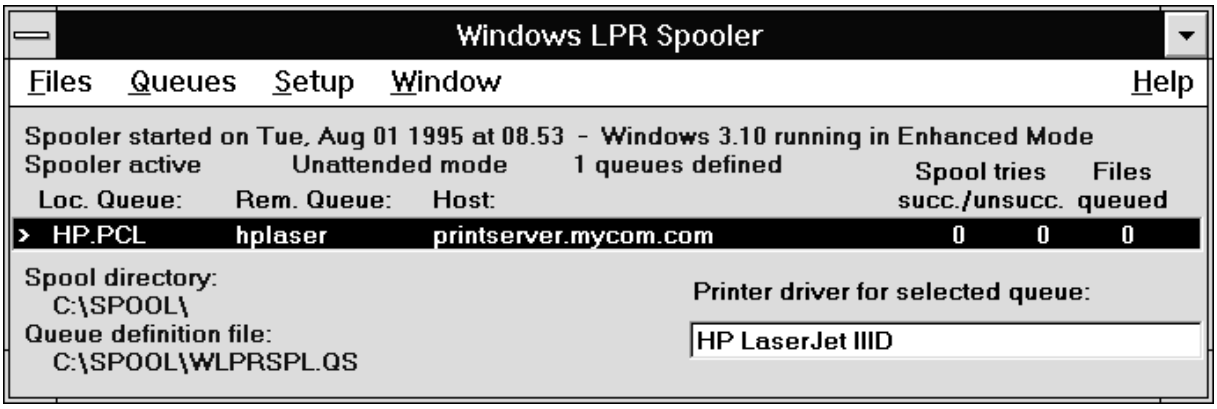
After clicking OK the spooler's main window now shows one queue:



The last thing to do to be able to print to this network printer is to install a matching Windows printer driver. For this to do you have to enter Control Panel and open the printer setup dialog. You can call Control Panel from within the spooler by selecting the menu option Files/Control Panel/Printers... or by pressing Ctrl-P. You click on Add new printer... and select „HP LaserJet IIID" from the list of printers. Then you click on Install.... It is quite

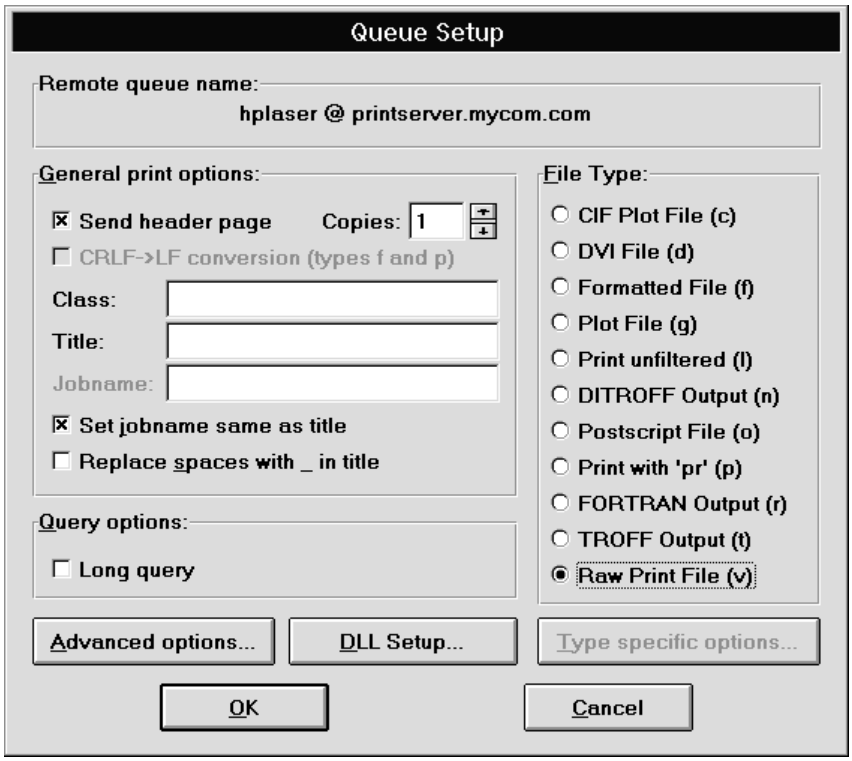
possible that you need the Windows installation disks for the installation of the new printer driver. Put the correct disk into the floppy drive when you are asked to do so.
When the new driver is installed it is connected to LPT1. This must be changed to the port mentioned above. So you have to select the HP LaserJet IIID driver in the list of installed printer drivers and click on the Connect... button. Here you scroll down the list of ports until you find C:\SPOOL\HP.PCL. You select this and click OK. In the list of installed drivers the HP LaserJet IIID driver should now appear as being connected to C:\SPOOL\HP.PCL.

When you now close the Control Panel the display in the spooler will change:



Left of the local queue name will appear a > sign which indicates that a printer driver is connected to this queue. The > will be replaced by a * if you make this printer the default printer. In the box on the lower right the printer model name of the currently selected queue is shown. Now you have successfully installed the first remote printer in WLPRSPL which is immediately accessible to all Windows applications.

One thing is left to do, though: Because this is a PCL printer all print files have to be transferred to it as-is (without being filtered). This can be accomplished by selecting Setup/Queues→/Edit queue data... from the menu, clicking on the Queue properties... button, and selecting type "v" (Raw print file) in the list of possible file types:



WLPRSPL Menu Options

Following is a list with all available menu options. On the right hand side the keyboard short cut is shown.

Files

Delete next spool file (Delete)

Delete next spool file in selected local queue.

Delete all spool files in queue (Ctrl-Delete)

Delete all spool files in selected local queue.

Delete all spool files (Shift-Ctrl-Delete)

Delete all spool files in *all* local queues.

Cancel spooling (Ctrl-C)

A currently running transfer is cancelled.

Suspend/Resume spooler (Ctrl-S)

The spooler is suspended, or its operation is resumed, depending on the current state of the spooler. When the spooler is suspended, no print jobs are transferred to remote printers.

Control Panel / Printers... (Ctrl-P)

Call the printers setup dialog in control panel. Note that under Windows NT and Windows 95 only the main control panel screen is loaded. You have to open the printer setup dialog manually.

Exit (Ctrl-X or Alt-F4)

Exit WLPRSPL.

Queues

Show remote printer status (Ctrl-Q)

Shows the state of the remote printer that corresponds to the selected local queue by executing an LPQ request. The dialog box showing the remote printer status then allows refreshing the display and cancelling one or more remote print jobs.

Show jobs in local queue (Ctrl-L)

Opens a dialog box that shows all jobs which are still in the currently selected local queue. In this dialog box you have the possiblity of removing jobs individually.

Enable/Disable queue (Ctrl-A or doubleclick on queue in listbox)

The selected local queue is enabled/disabled.

Scan queues immediately

(Ctrl-I or click right mouse button on WLPRSPL symbol)

The spool directory is scanned for new spool files immediately.

Retry to spool now (Ctrl-N)

If the queue is in retry timeout state (yellow text) because an error occured when trying to send the active spool file, the spooler retries immediately to send the file instead of waiting for the time to expire.

Select as default printer (Ctrl-D)

The printer connected to the currently selected queue is made the Windows default printer.

Show last error... (Ctrl-E)

A message describing the last spool error is displayed.

Clear error flag (Ctrl-F)

A message describing the last spool error is displayed.

Reset selected queue (Ctrl-R)

The statistics of the selected local queue are reset.

Reset all queues (Shift-Ctrl-R)

The statistics of all local queues are reset.

Setup

Preferences...

Activates the dialog described in ***"Adjusting WLPRSPL Operating Parameters"***

Spool-Directory...

Activates the dialog for selection of the spool directory described in ***"First Start"***.

Queues >

Define new queue (Alt-Insert)

Activates the dialog for defining a new queue described in ***"Adding/Changing Network Printer Definitions"***.

Edit queue data (Alt-Enter)

Activates the dialog for editing queue data described in ***"Adding/Changing Network Printer Definitions"***. The dialog is filled with the data of the currently selected local queue.

Delete queue (Alt-Delete)

Deletes the currently selected local queue.

Reload queue definitions

Reloads the queue definitions from the currently active QDF.

Load queue definitions...

Activates the dialog for selecting a QDF described in ***"First Start"***.

Save queue definitions

Saves changes made to a queue definition in the currently active QDF.

Save queue definitions as...

Saves the current queue definitions to a QDF which must first be selected. If wanted, this new QDF can be made the currently active QDF, which will then be used the next time WLPRSPL starts.

Register Program...

Activates the program registration dialog. If you have a pre-registered version of the program, this menu option is grayed.

Window

Hide window (Ctrl-H)

Hides the spooler's main window (See section ***"Usage Notes"*** on how to handle the spooler when its main window is hidden).

Usage Notes

- When the spool directory is changed after the first installation, new ports are automatically generated for all local queues in the [ports] section of WIN.INI. The user then has to manually connect all printer drivers to those new ports. This is *not* done automatically.
- If you have a DOS application that can print to a file in addition to printing to a real LPTx or COMx, you can use WLPRSPL to spool those files. Just let the application print to the file that defines the port for the desired network printer (i.e. C:\SPOOL\HP.PCL). Then there are two possibilities to initiate the transfer: Either you have set the *Timer Ticks* to a non-zero value. In this case you only have to wait for the specified number of seconds, and WLPRSPL puts the file into its queueing system. If you have disabled this feature you can also switch back to WLPRSPL with Alt-Tab and select Queues/Scan queues immediately from the menu or click on the WLPRSPL icon or window frame with the right mouse button.
  Under Windows NT and Windows 95 the *Timer Ticks* feature is not available.
- The state of all queues (enabled/disabled, number and names of spool files) is saved in the spool directory as file *filename*.SPL, where *filename* corresponds to the name of the QDF. When, for example, the name of the QDF is WLPRSPL.QS, then the name of the queue state file is WLPRSPL.SPL. This file should not be deleted because it is needed to determine to which local queue any unsent spool files belong.
- When you print to a remote printer that automatically detects PostScript files and you get the PostScript text printed, this usually happens due to the fact that the Windows PostScript driver prepends the PS datastream with a Ctrl-D (0x04). This character normally causes a locally attached PS printer to reset, but it also makes it impossible for network queues to recognize the print data as PS file. Included in this package is a ZIP archive called CTRLD10B.ZIP which contains a small Windows utility that allows you to selectively enable or disable the Ctrl-D generation for all installed PS printers that use the standard PSCRIPT.DRV driver. If the installed PS printer uses the newer ADOBEPS.DRV, you can change this behaviour by going into Control Panel/Printer. Then select the driver in question, get into its setup, click on "PS Options", and in the box "Protocol Options" select "None (AppleTalk)" instead of the default "Serial/Parallel".
- The spooler's main window can be hidden (you don't see even its icon). To bring the window back into view start a second instance of WLPRSPL (e.g. double click on the spooler's icon in Program Manager). To make this easier you can define a hotkey in Program Manager that starts the spooler. This hotkey is then available system-wide.
- You should try to keep the path to the spool directory as well as the individual queue names as short as possible. Some programs have problems when the port names are too long, and some have problems to enumerate all installed printers (usually done for the File/Printer Setup dialog) when the sum of all port name lengths exceeds the buffer size provided by the application.
- Under Windows NT and Windows 95 it is currently impossible for the spooler to capture the document title, so in this environment the title will always be "- unnamed -".

Troubleshooting

If you have problems with the spooler that can't be resolved through this document please take a look at the documentation of the supporting DLLs. There are given some troubleshooting tips which are specific to those DLLs. If this fails, too, please feel free to contact us. But do not forget to provide us with info about the program version, your operating system, and your networking software, as well as info about what printer and printer server you use (model, operating system etc.)

Change Log

Version 4.0a:

- Package includes WLPR2.DLL Version 2.0a.
- The logic when saving the state of a queue (enabled, disabled, retry timeout) was changed. Now, if a queue is permanently disabled, it will stay in this state when you close down the spooler and later restart it. Previously, a disabled queue went into "Retry timeout" state when the spooler was restarted.
- In the "Edit Queue Data" dialog the "Local Spool File" name now is limited to 12 characters.
- Long queue and host names extended into the data right of it in the main window list box. They are now truncated in the display.
- In unattended mode, the error code of a failed spool attempt is now kept and can be displayed with the Queues/Show last error... menu option. If an error occured, this is also indicated with a red "E" at the beginning of the relevant line in the spooler's main window listbox.

Version 4.0b:

- Package includes WLPR2.DLL Version 2.0b.
- The file name generation scheme for the spool files has been changed. Previously it was based on the time with a 1 second resolution which caused two print jobs to be given the same name if printed within one second.
- More keyboard accelerators for menu functions.
- The default Windows printer can now be changed within the spooler to one of the WLPRSPL queues by right-doubleclicking on a spooler queue.

Version 4.0c:

- Package includes WLPR2.DLL Version 2.0c and WSOCKAID.DLL Version 2.0b.
- The main window uses a smaller font now.
- Fixed a bug that caused the spooler to hang when adding queues after it was started without any queue being defined.
- The Spooler now recognizes when it runs under Windows NT. In this case the timer ticks in the Preferences dialog cannot be changed and remain 0. Otherwise print jobs might be chopped into several parts.

Version 4.0d:

- Package includes WLPR2.DLL Version 2.0d and WSOCKAID.DLL Version 2.0c as well as the new WJETDIR.DLL 2Version 2.0.
- The preferences option "Warn if Print Manager is deactivated" has been added.
- The preferences option "Do not prompt when spooler is closed" has been added.
- Code was added to make sure that new print jobs are recognized even if Print Manager is deactivated under Windows 3.x.
- Now the spooler's main window can be hidden on startup as well as per menu option (see section ***"Usage Notes"***).
- Fixed a bug that caused new jobs that came in while a dialog/message box was displayed to stay in queue. Now the job is sent as soon as the dialog/message box is closed.
- In the "Select Spool Directory" dialog the creation of a new directory has been moved to a sub-dialog which can be reached by clicking the new "New dir..." button.
- Fixed a bug in the memory allocation algorithm for the queue management.
- Now under Windows 3.x the printer setup dialog of the Control Panel is automatically opened. Previously only the Control Panel was loaded, and the user had to manually open this dialog.

Licensing and Registration

This software is not free. It is shareware. You are granted the right to test this software for a period of 30 days. After this you have to register the product (see registration form at the end of this document) and, if this applies to you, pay the required registration fee.

The unregistered shareware version displays a message box at the program start reminding you that the program has not yet been registered. When you register the program, you get a serial number and a corresponding key. Start the spooler, select the Setup/Register Program... menu option, and type your user information together with serial number and key into the dialog box. Then press the OK button. Contact us (see next section) for the registration price. We also offer site/company licenses.

You may redistribute this program as long as you keep the package complete with all the files that are listed in the ***"Contents"*** section at the beginning of this document.

One Final Word ...

Tell us everything you like or dislike about this program in order to let us make it better. Tell us about functions that you would like to see added. Tell us about problems you have encountered.

You can reach us under the following E-mail addresses (first in the list preferred):

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ich211@zam001.zam.kfa-juelich.de
ich211@djukfa11.bitnet
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or by ordinary mail as

Susanne Heil EDV-Vertrieb
Hindenburgstr. 50
41352 Korschenbroich
Germany

or by fax under +49 (0)2161 644337

Registration Form

(Please register WLPRSPL 4.0d when you decide to use it beyond the trial period of 30 days.)

Name:	
Institution:	
Department:	
Street:	
City/Town and	
ZIP/Post Code:	
State:	
Country:	
Phone number:	
FAX number:	
E-Mail address:	
Customer Number[1]	

I would like to register _____ Windows LPR Spooler 4.0d licenses

for ❑ an educational/no-profit institution. Total price: _____ DM
❑ a commercial/for-profit institution. Total price: _____ DM

Payment: ❑ Remittance to: Bank: Stadtsparkasse Korschenbroich, Germany
Bank Routing Code: 310 512 40 Account: 149401
❑ included Cheque

_____
Date/Signature

Please mail this form (with a possible fee included) to

Susanne Heil EDV-Vertrieb
Hindenburgstr. 50
41352 Korschenbroich
Germany

[1]from a previous registration