

FinePrint 2000 Enterprise

FinePrint Software
<http://www.fineprint.com>

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Introduction

FinePrint 2000 Enterprise (FPE) is a version of FinePrint Software's FinePrint 2000 utility specially designed for use in a network environment. FPE offers an ideal way to provide FinePrint's advanced printing capabilities to users on a network.

This document discusses only the features of FPE which are above and beyond the standard FinePrint product. For an explanation of the standard product, please visit the FinePrint Web site at <http://www.fineprint.com>.

Features

FinePrint Enterprise has the following features:

- *Centralized Installation.* Install FPE once on a file server, and any user with access to the file server can use FinePrint simply by connecting to a shared printer.
- *Centralized Updates.* When a new version of FPE becomes available, you simply install it on the server. Client users are automatically updated to the new version.
- *Network Client Support.* FPE supports clients running Windows 95, 98, Me, NT, or 2000. Installation is simple, using the standard Windows "Point and Print" technique for accessing shared network printers.
- *Security.* FPE fully supports Windows NT security, so you can choose which users have access to FinePrint. Unlike the standard version of FinePrint, FPE does not require administrative privileges under NT (except for installation and uninstallation on the server).

System Requirements

FinePrint Enterprise requires the following for a server installation:

- Windows NT version 4.0 or higher, or Windows 2000
- Microsoft Networking with printer sharing

FPE client installation requires the following:

- Windows 95, 98, Me, NT 4.0, or 2000
- Microsoft Networking with printer sharing

Availability and Pricing

FinePrint Enterprise is currently shipping and is available for download at the FinePrint Web site. Pricing is the same as standard FinePrint, with the same schedule of quantity discounts. See the Web site for complete details.

Installation - Server

Installing FinePrint Enterprise on a server does the following:

- installs printer drivers for Windows 9x/Me and NT/2000 on the server
- installs the FinePrint 2000 printer on the server and creates an "FP2000" share which clients can access
- installs the full FinePrint product for use on the server itself

To install FPE on a server:

- download FPExxx.EXE (where "xxx" is the FinePrint version number) from the FinePrint Web site to your NT/2000 server
- customize the FP4.INI file as necessary for your installation (see the section "Customizing FP4.INI" for details). FP4.INI allows you to configure FinePrint on your system. It is processed when you install FPE on the server and also when a client connects to the FP2000 share. FP4.INI must reside in the same directory as FPExxx.EXE when you install FPE on your server.
- run FPExxx.EXE to install FPE on your server

Customizing FP4.INI

FinePrint Enterprise uses the FP4.INI file to preconfigure FinePrint settings on both the server machine and on all client machines. Here are some things you can do with FP4.INI:

- enter your FPE serial number so that clients do not have to enter it on FinePrint's "Register" tab
- initialize the paper size (e.g. Letter or A4) of the FinePrint 2000 printer
- configure duplex capabilities of your destination printers, so that clients do not have to run the Printer Wizard to print double sided

FP4.INI is in standard Windows INI format. FinePrint parses FP4.INI and copies information from the file into FinePrint's sections in the system registry. The major sections of FP4.INI are:

- [Settings], which is used to enter serial number information
- [Registry], which enters registry information on all platforms
- [Registry-9x], which enters registry information on Windows 9x/Me systems
- [Registry-NT], which enters registry information on Windows NT/2000 systems

Here is a sample FP4.INI file which enters the serial number, sets the paper size to A4 in Portrait orientation, and enters printer capabilities for an HP Laserjet 4M Plus without hardware duplex and an HP Laserjet 4000 with hardware duplex. Notice that each destination printer capability is actually entered three times:

- in [Registry-NT] for the connection on the server itself. Here the printer name does not contain the server name, because the printer appears in the server's Printers folder.
- in [Registry-NT] for connections on Windows NT/2000 clients. The printer name is the UNC path name, with backslashes converted to commas for registry entries.
- in [Registry-9x] for connections on Windows 9x/Me clients. The printer name does not contain the server name, because Windows 9x/Me does not handle it.

It is entirely possible that printers have different duplex capabilities on different platforms: for example, the HP Laserjet 4000 flips the paper one way under Windows 9x/Me and another way under Windows NT/2000. That's why there are different sections for [Registry-9x] and [Registry-NT] in FP4.INI.

```
[Settings]
Name=your company name
SerialNumber=xxxx-xxxx-xxxx
```

```
[Registry]
HKCU\SOFTWARE\FinePrint2000\FinePrinters*\PrinterDriverData\PaperSize=9
HKCU\SOFTWARE\FinePrint2000\FinePrinters*\PrinterDriverData\Orientation=1
```

```
[Registry-9x]
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\DuplexSupport=4
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\Reverse=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\TextCaps=6
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\ColoredText=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\DuplexCorrection=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\Collate=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Duplex=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\DuplexSupport=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\DuplexCorrection=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Reverse=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\TextCaps=5
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\ColoredText=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Collate=1
```

```
[Registry-NT]
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Duplex=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\DuplexSupport=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\DuplexCorrection=2
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Reverse=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\TextCaps=7
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\ColoredText=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series
PCL\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4000 Series PCL\Collate=1
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\DuplexSupport=4
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters*\DestPrinters\HP LaserJet 4M Plus\Reverse=0
```

```

HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\TextCaps=7
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\ColoredText=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\DuplexCorrection=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\HP LaserJet 4M Plus\Collate=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\Duplex=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\DuplexSupport=3
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\DuplexCorrection=2
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\Reverse=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\TextCaps=7
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\ColoredText=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4000 Series
PCL\Collate=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\DuplexSupport=4
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\ManualDuplex=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\Reverse=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\TextCaps=7
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\ColoredText=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\AddMargin=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\DuplexCorrection=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\DuplexType=1
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\Orientation=3
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\EmbFontGraphics=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\PageRotation=0
HKCU\Software\FinePrint2000\FinePrinters\*\DestPrinters\,,SERVERNAME,HP LaserJet 4M
Plus\Collate=1

```

Some notes on FP4.INI entries:

- you must change SERVERNAME to the actual name of the server where FPE is installed
- if you want, you can customize the FinePrinter name to your particular environment. The example here uses the regular expression "*" to tell FPE that all FinePrinters should inherit these settings. To specify settings for a specific FinePrinter, just use its name instead of "*" in the INI entry.

- PaperSize in the PrinterDriverData section can be any of the predefined DMPAPER_xxx values defined in WINDOWS.H or WINGDI.H. The most common values are 1 (Letter) and 9 (A4).
- Orientation in the PrinterDriverData section is 1 for portrait and 2 for landscape
- you may make further changes to FP4.INI on the server after FPE is already installed. Changes made after installation will *not* affect existing client connections, but they will affect all future client connections. FP4.INI is located on the server in

```
\WINNT\SYSTEM32\SPOOL\DRIVERS\WIN40\0 (for 9x/Me clients)
\WINNT\SYSTEM32\SPOOL\DRIVERS\W32X86\2 (for NT/2000 clients)
```

A good way to build your FP4.INI file is to configure the server directly using the FinePrint UI (either print to FinePrint 2000 on the server, or open the FinePrint driver in the Printers folder). Once you have configured all the settings you want (e.g. the destination printer capabilities), go to the Settings tab and click "Save Settings". This will create an FP4.INI file containing FinePrint's current settings, in your FinePrint files folder (which you can access via the "Explore FinePrint files" shortcut in the program group). Then edit FP4.INI manually to complete the customization and copy it to the above locations for your future client connections.

Installation - Client

Client installation of FinePrint Enterprise is simply a matter of connecting to a shared network printer. This can be done via Network Neighborhood or the Add Printer Wizard in the Printers folder.

Automatic Client Updates

When you install a new version of FinePrint Enterprise on your server, the connected clients are automatically updated with the new version. However, these updates are only performed when the client machine is rebooted or when a new user is logged on. This is by design, to keep the amount of network traffic generated by FinePrint very low.

Registered vs. Unregistered

The version of FinePrint Enterprise on the FinePrint Software Web site is an unregistered version. It contains all FinePrint features but is intended for evaluation purposes only. Once you have purchased user licenses for FPE you will receive a serial number which will register your current and new FPE users.

Uninstallation

FinePrint Enterprise can easily be removed from a client workstation by simply deleting the FinePrint 2000 printer from the Printers folder. Administrators can uninstall by running the "Uninstall FinePrint" item in the FinePrint 2000 program group, or by choosing "FinePrint 2000" from Control Panel Add/Remove Programs.

Registry Use

FinePrint creates the following registry keys on both the server and client machines:

```
HKLM\Software\Microsoft\Windows\CurrentVersion\AppPaths
HKLM\Software\Microsoft\Windows\CurrentVersion\Run
```

used by the FinePrint Dispatcher

HKLM\Software\Microsoft\Windows\CurrentVersion\Uninstall
used by Control Panel Add/Remove Programs

HKLM\Software\FinePrint2000
global FinePrint settings which affect all users

HKCU\Software\FinePrint2000
HKU\xxx\Software\FinePrint2000
user-specific FinePrint settings

Program and Data Files

On a Windows 9x/Me client, FinePrint program files are located in
 \WINDOWS\SYSTEM

On an NT/2000 client, program files are located in
 \WINNT\SYSTEM32
 \WINNT\SYSTEM32\SPOOL\DRIVERS\W32X86\2
 \WINNT\SYSTEM32\SPOOL\DRIVERS\W32X86\FpForms4

On the NT/2000 server, program files are located in
 \WINNT\SYSTEM32
 \WINNT\SYSTEM32\SPOOL\DRIVERS\W32X86\2
 \WINNT\SYSTEM32\SPOOL\DRIVERS\W32X86\FpForms4
 \WINNT\SYSTEM32\SPOOL\DRIVERS\WIN40\0
 \WINNT\SYSTEM32\SPOOL\DRIVERS\WIN40\FpForms4

FinePrint data files (stationery and forms) are stored in the "FinePrint files" folder in each user's My Documents folder.

Other Files

FinePrint creates a program group in each user's Start menu, and creates a shortcut to the FinePrint 2000 printer in each user's Send To folder. These file locations can be found in the registry at

HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell
Folders (StartMenu and SendTo).

Contacting Us

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