



Windows Network Printing with QuickFax

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About QuickFax

QuickFax is a Windows® application built by TNZ Group. It allows users to send fax documents natively from their computer using a desktop application. Simply load the QuickFax program, set your TNZ Account details, upload your fax document and click send!

Network Printing

Network Printing is a widely used concept that has been available in almost every version of Windows® since Windows 98®. If your printer supports Network Printing, you can print documents from any computer on your local network – without a dedicated USB or Serial cable.

The standard installation of QuickFax requires users to manually upload a local document into the application. With the accompanying TNZ Network Printing application, users can print directly from their Microsoft Word document, Internet web page, or any other Windows® application, directly to the QuickFax Network Printer! This will print the document into QuickFax, ready for faxing!

While Windows® will believe it is printing to a Network Printer, it is actually printing to the QuickFax application. Once the document has completed “printing”, the QuickFax application will automatically start, allowing you to enter fax numbers and click send!

Single vs. Multi User - For Multiple User Accounts on one Computer

The Single User version of the Network Printing add-on for QuickFax is called AppStartOnPrint. When a file is printed to the QuickFax Network Printer, this is the brains that will load a single instance of QuickFax, with all the user's settings ready to go.

As Windows® allows multiple User accounts on computer; QuickFax must be able to differentiate between different users logging in (whether at the same time or different reboots). For this, we use AppStartOnPrintMultiUser in conjunction with CapturePort.

As the default port for Network Printing (TCP/IP printing) is 9100, CapturePort will listen to the port, receive the data for printing and assign User information (the logged in user who submitted the print). When AppStartOnPrintMultiUser loads, it will pass on the user information from CapturePort to QuickFax.

Without AppStartOnPrintMultiUser and CapturePort, if a computer had multiple users logged in on a single computer and installation of Windows® using QuickFax, the TNZ applications wouldn't know which fax user settings to load.

In summary, for Users wishing to utilize QuickFax Network Printing on a computer managed by them only, AppStartPrint is all that is required. Users wishing to utilize QuickFax Network Printing on a computer with multiple logins using QuickFax Network Printing, AppStartOnPrintMultiUser and CapturePort are required.

For Administrators wishing to host a QuickFax server, please see the [QuickFax Network Printing for Administrators guide](#).

Installation – Single User Installation

Installing QuickFax Network Printing on a computer with a single QuickFax user is simple (actual settings may vary between editions of Windows®):

1. Open the "Add Printer" wizard. This can be found under "Control Panel/Printers"
2. Select the option to "Add a Printer", followed by "Network Printer" then select the option for "TCP/IP Printer"
3. Enter the Printer Name (e.g. QuickFax Printer)
4. Enter the Port Name (e.g. QuickFax Printer)
5. Select "Custom Settings" and note the Port Number (default is 9100) and ensure the type is **RAW**. If there is an existing printer using the 9100 port, this will be changed (AppStartOnPrint will need to be notified, see AppStartOnPrint.ini).
6. Choose a printer driver. As the QuickFax Printer is virtual, the actual driver is flexible. The application requires a postscript printer, so we recommend the "HP 2300 PS".

Your Virtual Network Printer is now installed!

You can proceed to install AppStartOnPrint:

1. For a more hands-on approach, add a blank text file named "AppStartOnPrint.ini" in the same directory as AppStartOnPrint.exe. When this file is present, AppStartOnPrint will read and write settings to this file. If this file isn't present at setup, these settings will be written to the Windows® registry.
2. Open a Command Prompt and locate the directory of AppStartOnPrint.exe.
3. Run command `AppStartOnPrint Setup`
4. Locate the QuickFax.exe application and ensure the settings are suitable.
5. Finally, close the command prompt and ensure AppStartOnPrint is automatically run and system startup. The simplest way is to include a shortcut to AppStartOnPrint in the "Start/Programs/Startup" directory.

Your QuickFax Network Printer is now installed!

Installation – Multi User Installation

Installing QuickFax Network Printing on a computer running multiple users QuickFax user is slightly more technical (actual settings may vary between editions of Windows®):

1. Open the "Add Printer" wizard. This can be found under "Control Panel/Printers"
2. Select the option to "Add a Printer", followed by "Network Printer" then select the option for "TCP/IP Printer"
3. Enter the Printer Name (e.g. QuickFax Printer)
4. Enter the Port Name (e.g. QuickFax Printer)
5. Select "Custom Settings" and note the Port Number (default is 9100) and ensure the type is **RAW**. If there is an existing printer using the 9100 port, this will be changed (CapturePort will need to be notified, see CapturePort.ini).
6. Choose a printer driver. As the QuickFax Printer is virtual, the actual driver is flexible. The application requires a postscript printer, so we recommend the "HP 2300 PS".

Your Virtual Network Printer is now installed!

Next, you need to install CapturePort:

1. Open a Command Prompt and locate the directory of CapturePort.exe.
2. Run command `captureport service:install` (later versions of Windows® may require Administrative Privileges to perform these actions. If so, ensure you right click on your Command Prompt shortcut and select "Run As Administrator")
3. Open the Control Panel and locate "Services" (often under Administrative Tools).
4. Under Services, right click on CapturePort and select Properties. Change "Startup Type" to "Automatic".
5. Open the CapturePort.ini file with a text editor and find the line "[UserSearchList]".
6. Print the CapturePort.ini file to QuickFax Printer with the "Print to File" checkbox ticked (usually, this shouldn't be ticked).
7. Open the saved print file with a text editor and find the line containing your username.
8. Copy this line into the CapturePort.ini file underneath [UserSearchList], replacing your username with #USER#. See below:

[UserSearchList]

%%For: #USER# Section containing username in the test print file. This is the line CapturePort should look for.

@PJL OKIAUXJOBINFO DATA="UserName=#USER#" This is a second variation.

The actual line will vary from printer to printer to version of Windows®. Additional variations can be added on subsequent lines.

You can proceed to install AppStartOnPrintMultiUser:

1. For a more hands-on approach, add a blank text file named "AppStartOnPrint.ini" in the same directory as AppStartOnPrintMultiUser.exe. When this file is present, AppStartOnPrintMultiUser will read and write settings to this file. If this file isn't present at setup, these settings will be written to the Windows® registry.
2. Open a Command Prompt and locate the directory of AppStartOnPrintMultiUser.exe.
3. Run command AppStartOnPrintMultiUser Setup
4. Locate the QuickFax.exe application and ensure the settings are suitable.
5. Finally, close the command prompt and ensure AppStartOnPrintMultiUser is automatically run and system startup. The simplest way is to include a shortcut to AppStartOnPrintMultiUser in the "Start/Programs/Startup" directory.

Your QuickFax Network Printer is now installed!

Advanced Configuration

While most of the installation process is simple, there are a few options for advanced users. These additional options are related mostly to the Multi-User set up.

To utilize these additional configuration options, ensure you comply with Option 1 of the guide to installing AppStartOnPrint or AppStartOnPrintMultiUser (using the AppStartOnPrint.ini).

Note: If the "INI" files have been used to change configuration settings, the GUI options inside the QuickFax application will be set as inactive. This is due to variables being expanded and replaced.

Environment Variables:

With Multi-User installs and Terminal Services, environment variables can be used so that only one executable and one configuration file are required (across all users).

See the AppStartOnPrintMultiUser.ini:

```
[AppStartOnPrintMultiUser]
```

```
StartupApp=%Applications%\QuickFax\QuickFax.exe
```

```
StartupAllArgs=
```

```
StartupAppStartPath=%HomeDrive%\%HomePath%\%Username%\QuickFax
```

Run a Program after Printing:

Inside the CapturePort.ini, you can set an option to run a program after CapturePort is executed.

This could be a text file, an automated notification email, anything executable.

```
ProcessExecutable =C:\Program Files\My Program\MyProgram.exe
```

```
ProcessStartupPath =%APPDATA%\%MYPROGRAM%\%PORTNAME%
```

This will run MyProgram.exe with the settings file found in the local user's Appdata directory.

Merged User Data for AppStartOnPrintMultiUser:

A single AppStartOnPrintMultiUser.ini file can contain unique configuration information for multiple users on a single computer.

If AppStartOnPrintMultiUser appname:AppStart-%MyUsername% is executed, the application will look inside the AppStartOnPrintMultiUser.ini file for a section titled [AppStart-Username] (whatever the actual Username is).

Specify a different User Data File for AppStartOnPrintMultiUser:

Using the command line, AppStartOnPrintMultiUser can be told to use a different set of configuration settings.

If AppStartOnPrintMultiUser config:MyConfig.ini is executed, the application will look inside the same directory as AppStartOnPrintMultiUser.exe for a configuration file called MyConfig.ini