



Installation

Prerequisites

Requirements at the Network Server or User Workstations

The **KIP Unified Windows Printer Driver (KUWPD)** allows windows printing from Microsoft Windows 2000 / XP / Vista / Windows x64 Operating systems as well as 2003 Server based applications. **(Windows 9x and Windows NT is not supported)**

Please ensure that your applications are as up-to-date as possible, in terms of version, available service packs, and hot fixes (this also includes your OS).

If you are updating your system from a previous installation, you will likely need the assistance of and/or permission from a Network Administrator to remove the previous KIP Driver. Any users connected to the previous shared version of the KIP Printer Driver on the Server or Workstation will need to remove that printer object and connect to the newly shared driver that will be installed.

KIP Unified Windows Printer Driver (KUWPD) offers HPGL2/HP-RTL and Postscript Language printing to KIP digital printers from Microsoft Windows 2000 / XP / Vista / 2003 based applications **(Windows 9x and Windows NT platforms not supported)**. The driver can be downloaded from your local KIP website and is included on your KIP Software CD. This driver may also be obtained from KIP PrintNET. Please see the PrintNET documentation for more information.

KUWPD contains:

Printer driver files

A dedicated printer port monitor (KIP0) for Microsoft operating systems as described in the following pages. Once the KUWPD has been downloaded and uncompressed, the files can be placed directly on the workstation or server to which it will be installed or on a USB drive or CD. **See Appendix A** for details on the files and file structure.

For new installations on a Workstation or Server see: “Installation Process”

For updating from a previous installation of a KIP Printer see: “Upgrade Installation”



Installation of the Microsoft Certified KIP Windows Driver

KUWPD version 2.139

To install KUWPD please ensure that the previous version of the KIP Windows driver has been completely removed. This does include the KIP0 port monitor and all files associated with it.

Uninstall Previous Windows Driver Version

1. Go **Start→Settings→Printers and Faxes**
2. Remove the installed KIP Printer Object and any other printer objects connected using available KIP port(s)
3. Go to **File→Server Properties→Ports**
4. Remove any KIP Ports in this list
 - a. This includes any KIPx port
5. Go to **File→Server Properties→Drivers** and remove any KIP Printers in this list
6. Go to **Start→Run** and type **Net Stop Spooler**
7. Go to C:\Windows\System32\Spool\Drivers\W32x86
8. Delete anything that starts with a KA, KI or KU
9. Go to the folder named "2" and remove anything KA, KI or KU
 - a. Within W32x86\2\temp please remove any a KA, KI or KU .tmp files
10. Go to the folder named "3" and remove anything KA, KI or KU
 - a. Within W32x86\3\temp please remove any KA, KI or KU .tmp files
11. Go back to C:\Windows\System32 and remove the kaw2kppm.dll and if there kuwxppm.dll
12. Go to **Start→Run** and type **Net Start Spooler**
13. To remove System Registry entries:
 - a. Navigate to HKLM\System\CurrentControlSet\Control\Print\Printers
 - b. Remove any KIP Printer object keys
 - c. Navigate to HKLM\System\CurrentControlSet\Control\Print\Monitors
 - d. Remove KIP Monitor or KIP Printer Port Monitor(s)
14. Reboot the Server if any files or registry keys could not be removed from the previous procedures and you receive an Access Denied error message. You should now have a clean system



Installing and Using KUWPD Version 2.139

1. Download KUWPD directory to a local PC drive location for ease of use.
2. Go to **Start→Settings→Printer and Faxes**
3. Click on **File→Server Properties→Ports**
4. Click on **Add Port→New Port Type**
5. Browse for *monitor.inf* from the WinXP folder of the downloaded KUWPD folder from the KIP web site.
6. The KIP Monitor will now be a selection within the Port Selection window
7. Select **KIP Monitor** and click on **New Port**
8. Select the desired KIP from the list or type in the IP address of the KIP Printer

A screenshot of the 'Configure KIP Port' dialog box. The dialog has a title bar with a close button. It contains several fields and options:

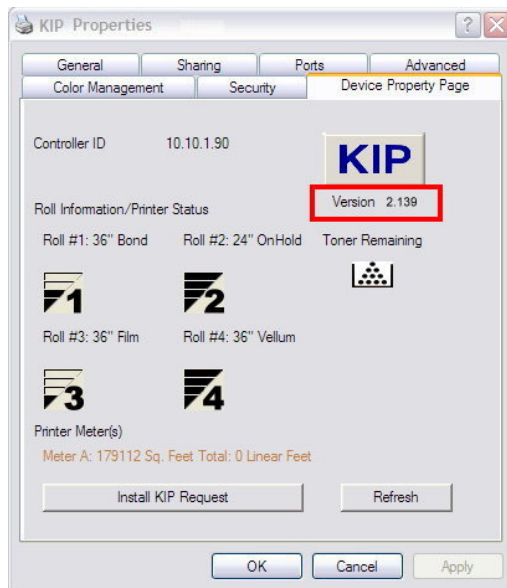
- Port name:** A text box containing 'KIP0'.
- Installation location:** Two radio buttons: 'IPS' (unselected) and 'Server/Workstation' (selected).
- Destination Directory:** A text box containing 'C:\Monpath1'.
- IPS Name or IP Address:** A text box containing '10.10.1.90'. Below it, a list of IP addresses is shown: '10.10.1.34 3000', '10.10.1.40 3000~3000~2', '10.10.1.62 8000', '10.10.1.68 3000', and '10.10.1.73 2002'. This list is enclosed in a red rectangular box.
- IP Address:** A text box (empty).
- IP Port Number:** A text box containing '8421'.
- At the bottom, there are 'OK' and 'Cancel' buttons.

9. Ensure the following settings:
 - a. Port name: KIP0
 - b. Installation location: Server/Workstation
 - c. IP Port Number: 8421
10. Click **Start→Settings→Printer and Faxes→Add a Printer** to begin the printer driver installation process
11. Choose a **Local printer attached to the computer** and click on **Next**
12. **Use the following port: KIP0 (KIP Port)**

This information is solely for use of KIP Personnel and KIP Authorized Dealers. No part of this publication may be copied, reproduced or distributed in any form without express written permission from KIP America, Inc. © 2007 KIP America, Inc.



13. Click on **Have Disk** and browse for *plotter.inf* from the WinXP directory that was downloaded from the KIP FTP site
14. Choose the correct **KIP Printer** model from the list
15. Follow the prompts to complete the installation of the printer driver.
16. Please check the following settings to ensure that the driver has been properly installed:
 - a. Right click on the installed printer driver object and select **Properties**
 - b. Click on the **Device Property Page** tab and verify the version number is 2.139





Setup KIP Windows Driver in LPR Mode

The KIP Windows driver may operate in several modes and may be connected through various methods.

The preferred method is to utilize the KIP0 port monitor. This port monitor has been developed with 2 way communications in mind. The KIP Driver is able to gather accounting and printer status directly from the KIP print controller (IPS). However, this method may interfere with current IT department's regulations.

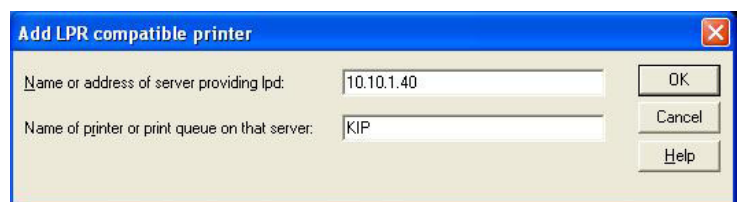
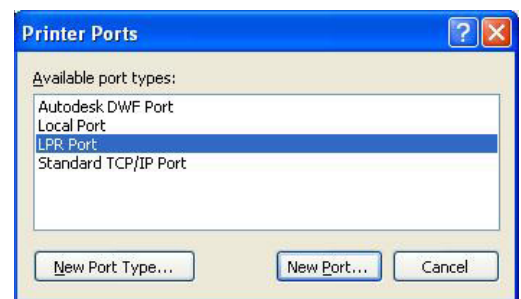
If the KIP0 port monitor cannot be used, it is possible to use either an LPR port monitor or a Standard TCP/IP port monitor.

The LPR port monitor will provide the best performance in most scenarios as the Standard TCP/IP port may have port connection limitations.

It is imperative that before any KIP Printer Driver is installed, the previous version driver is completely removed. If the previous driver remains, the setup will not function properly.

In order to setup the LPR port monitor it is necessary to have Print Services for Unix installed from the Windows Component setup dialog.

1. Create a new LPR port monitor from the Printer and Faxes dialog.
2. Click on File→Server Properties and select LPR Port and click on New Port
3. Type in the IP address of the KIP IPS and enter the default print queue name on the KIP IPS. This is KIP.
4. The LPR port has been setup and configured correctly and may now be attached to a KIP printer object.





5. Click on the Add a Printer Wizard to begin the KIP Windows Driver setup.

6. Select the newly created LPR port (10.10.1.40:KIP) as the port.

7. Browse for the new printer driver by selecting on the **Have Disk** button. Browse for the latest KIP Printer driver.

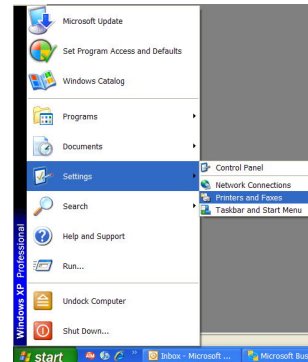
8. Choose the proper KIP Printer driver model from the available choices and finish by completing the steps as described in the Add a Printer Wizard setup.

9. Print a test page to ensure that the driver is operating properly.

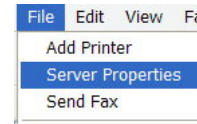


Setup KIP Windows Driver in TCP/IP Mode

1. Go to Start --> Printers and Faxes

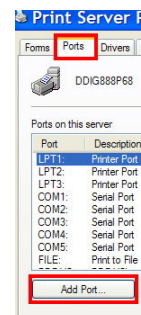


2. Click on File --> Server Properties



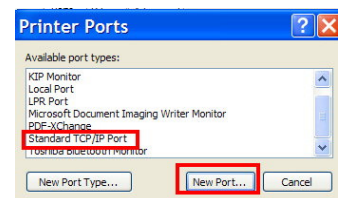
3. Click on the Ports tab

4. Click Add Port



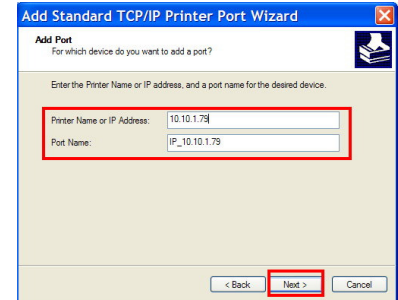
5. Highlight Standard TCP/IP Port and the select New Port

6. Click on Next

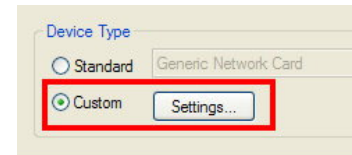




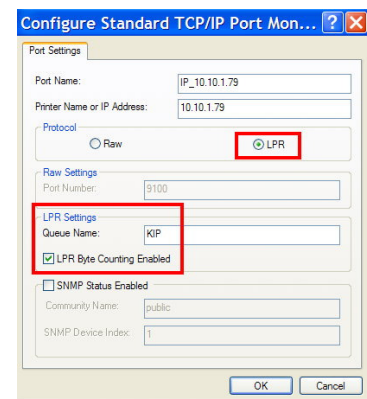
7. Enter the IP address of the KIP Printer (works much better with a static IP address)
8. Click Next (may take a minute to determine what it is connecting to)



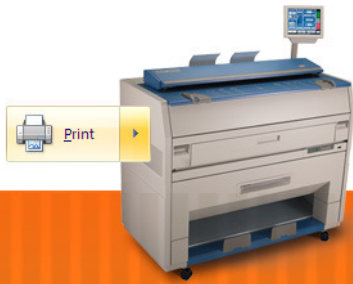
9. Under Device Type, click on Custom and then Settings
10. Select LPR under Protocol



11. Under LPR Settings type in the default queue name on the KIP controller (This is the printer object name, typically KIP)
12. Select Enable LPR Byte Counting
13. Click OK, then Next to review the options and then Finish



At this point you have just installed the port. Now you can go through the standard Add a Printer Wizard to add the KIP printer, just select this port when you add the printer.



Appendix

File Structure Overview

When the printer driver is unzipped and copied to the Hard Disk of the system where it will be installed, the directory and file structure are as follows:

- \KUWPD**
- \KUWPD\AMD64**
- \KUWPD\Vistax64**
- \KUWPD\Vistax86**
- \KUWPD\WIN2000**
- \KUWPD\WINXPx86**
- \KUWPD\WINXPx64**
- \KUWPD\WIN2003x86**
- \KUWPD\WIN2003x64**

AMD64

Copy64.exe - utility to properly place x64 files in support path structure

Microsoft.VC80.CRT.manifest – Microsoft compiler manifest file

msvcr80.dll - Microsoft DLL needed.

WIN2000

Kaw2kppm.dll- Printer Port Monitor for Microsoft Windows 2000

Kipgs24.ppd- Postscript Printer Definition File

Kipgs400.ppd- Postscript Printer Definition File

Kipgs600.ppd- Postscript Printer Definition File

This information is solely for use of KIP Personnel and KIP Authorized Dealers. No part of this publication may be copied, reproduced or distributed in any form without express written permission from KIP America, Inc. © 2007 KIP America, Inc.



Kipgs1020.ppd-	Postscript Printer Definition File
Kuwxppd.dll-	Printer Driver DLL for Microsoft Windows 2000 / XP / 2003
Kuwxppui.dll-	Printer Driver User Interface for Microsoft Windows 2000 / XP / 2003
Monitor.inf-	Printer Port Monitor installation file for Microsoft Windows 2000
Plotter.inf-	Printer Driver installation file Microsoft Windows 2000

WINXP

Amd64

Kuwxppd.dll-	Printer Driver DLL for 64 bit systems
Kuwxppms.dll-	Printer Port Monitor for 64 bit systems
Kuwxppmu.dll-	Printer Port Monitor User Interface for 64 bit systems
Kuwxppmui.dll-	Printer Driver Interface for 64 bit systems

i386

Kuwxppm.dll-	Printer Port Monitor for Microsoft Windows 2000 / XP / x64 / 2003
Kipgs24.ppd-	Postscript Printer Definition File
Kipgs400.ppd-	Postscript Printer Definition File
Kipgs600.ppd-	Postscript Printer Definition File
Kipgs1020.ppd-	Postscript Printer Definition File
Kuwxppd.dll-	Printer Driver DLL for Microsoft Windows 2000 / XP / x64/ 2003
Kuwxppui.dll-	Printer Driver User Interface for Microsoft Windows 2000 / XP / x64
Monitor.inf-	Printer Port Monitor installation file for Microsoft Windows XP / x64 / 2003
Plotter.inf-	Printer Driver installation file Microsoft Windows XP / x64 / 2003



Printing Hints

Issue: Adobe Acrobat 6.X products, when printing with KIP GL output language and large size (E-Size or larger) documents has potential to miss or clip off data prematurely.

Solution: Adobe Acrobat 7.X products correct this issue. Acrobat 6.X requires the use of KIP Script output to solve this issue (choose KIP Script in the drivers **Printing Preferences** prior to opening Acrobat 6)

Issue: Printing from Adobe products such as Acrobat Reader requires Postscript output.

Solution: Default the "Printing Preferences" of the KIP driver to KIP Script prior to opening the Adobe application. Printing of KIPScript data also requires the Powerscript3 option on the KIP Controller.

Issue: The **output format** for driver MUST be chosen before entering an application to ensure proper output format.

Solution: Ensure **output format** is set in Printing Preferences before launching an application.

Issue: Printing from AutoCAD products with large and/or complex amounts of embedded raster objects will cause a very large output file / spool file size.

Solution: It is suggested to use dedicated KIP ADI/HDI for complex raster printing from AutoCAD products.