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1 Introduction

The new generation KIP System K Windows Driver® is Microsoft WHQL certified, meeting exact standards of reliability and quality. The functional and intuitive graphic user interface and expanded features provides the user with a wide range of standard and special functions when printing from Windows based applications

The KIP System K Windows Driver[®] can be used with the entire range of KIP Printers from any Windows based application for both Color and B&W print applications.

2-way communication with KIP systems Displays current media information and real time system status 64 & 32 Bit operating system compatibility Label documents with user name, job number and data tracking information Job accounting and data tracking information Windows 7 Experience

1.1.1 Requirements:

The KIP Windows driver for KIP System K is WHQL certified for

- 32 & 64 bit Windows 7, Windows 8 & Windows 10
- 32 & 64 bit Windows 2008 Server
- Windows 2008 Server R2
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016

NOTE:

Microsoft .Net Framework 4.5 is required on all operating systems to be included in the driver package (distributable).

1.1.2 Supported Operating Systems

- Windows 7
- Windows 8
- Windows 10
- Windows Server 2008
- Windows Server 2008R2

- Windows Server 2012
- Windows Server 2012 R2
- Windows Server2016
- Windows Server 2019

2 WPD loaded Locally

Prior to Install

The following steps **MUST** be performed to use the new Windows driver.

Install scenario 1: Driver is loaded locally on each workstation (not shared from server):

Step	Action	Illustration
1.	At the workstation run the KIP Windows Driver Installer.	W SYSKWPD.exe
2.	When the Installer opens select the Gear in the bottom left corner.	
3.	This will open the screen to the Aggressive Removal Logging Tool. Select Begin	Agressive Removal Logging
4.	This will remove the KIP Windo	ows Driver from the workstation.
5.	REBOOT THE WORKS	TATION – THIS STEP MUST BE COMPLETED!
6.	Once the workstation has re-	-started run the KIP Windows Driver Installer again.
7.	Follow the steps in next s	section - Installation and Setup (Automatic)

Installation and Setup (Automatic)

The Following section describes the Installation of the KIP System K Windows Driver® Please follow the Stepby-step procedure for correct installation

Step	Action	Illustration
1.	Open the Windows Driver folder and double click the WPD Pro icon.	W SYSKWPD.exe
2.	If asked to authorize select "Yes".	User Account Control × Do you want to allow this app to make changes to your device? Image: SYSKWPD Verified publisher: KIP America File origin: Hard drive on this computer Show more details Yes No
3.	If Automatic is selected the installer will search network for System K printers. Once IP is selected from <i>Host Name or</i> <i>IP Address</i> pull down menu, the other fields will populate automatically. Click <i>Begin</i> to commence installation. Specify Driver output has the ability to set either PostScript or GL2/RTL. The selected output type can also be locked to that type only by seolecting the "Restrict Driver Output Type" Check box. Note: If Manual is selected User must specify <i>Printer</i> <i>Name</i> , <i>Hostname or IP</i> <i>Address</i> and <i>Printer Model</i> .	

Step	Action	Illustration
4.	Once Complete the driver installation will display Success! A message to reboot may also be displayed.	W KPS Systemic Priver Driver Lossaller v 0.0.0.50 Image: Comparison of the standing of the stand
5.	REBOOT THE WORKSTA	TION IF PROMPTED – THIS STEP MUST BE DONE!
6.	When Done Installing select the "Quit" button to Close the installation. Reb	Quit
7.	The Driver is now installed and should be present in the Devices and Printers folder.	KIP 850

3 WPD Network Share

Prior To Install

The following steps **MUST** be performed to use the new Windows driver.

Install scenario 2: Driver is shared from server:

Step	Action	Illustration
1.	Detach all Clients (MUST BE DONE) from shared printer object	
2.	Reboot All Clients (MUST BE DONE)	
3.	Remove currently installed driver on server by launching the windows driver installer and selecting the Gear in the bottom Left corner.	
4.	This will open the screen to the Aggressive Removal Logging Tool. Select Begin	Agressive Renoval Logging
5.	This will remove the KIP Windo	ows Driver from the server.
6.	REBOOT THE SER	VER – THIS STEP MUST BE COMPLETED!
7.	Once the server has re-starte	ed run the KIP Windows Driver Installer again.
8.	Follow the steps in section	on 2 Installation and Setup (Automatic)

4 WPD Network Share with Group Policy

Prior To Install

The following steps **MUST** be performed.

Install scenario 3: Driver is deployed via Group Policy from server

Step	Action	Illustration
1.	Un-Publish in Group Policy	
2.	Reboot all Client Workstations, or run gpupdate /force to propagate policy changes.	
3.	Remove currently installed driver on server by launching the windows driver installer and selecting the Gear in the bottom Left corner.	
4.	This will open the screen to the Aggressive Removal Logging Tool. Select Begin.	Agressive Removal Logging
5.	This will remove the KIP Windo	ows Driver from the server.
6.	REBOOT THE SER	VER – THIS STEP MUST BE COMPLETED!
7.	Follow the steps in section 2	Installation and Setup (Automatic)
8.	Re-Publish in Group Policy	

5 Windows Drive with No SNMP Communication

When the driver is operating in this mode, simple static choices are available for items that would normally begotten from the actual printer.

Step	Action	Illustration
1.	Double Click the installer	SYSKWPD.exe
2.	Select the correct printer to attach to. Select Drop-down arrow if multiple printers are available.	Host Name or IP Address: IP Address Here
3.	Select correct driver output type.	Specify Driver Output Type: POSTSCRIPT Restrict Driver Output Type
4.	Check the box "Disable Bi- Directional Communication". This will disable the SNMP communication.	Disable Bi-Directional Communication
5.	Select Begin	Begin
6.	Select Quit when installation says "Success"	Success! Begin Quit

Step	Action	Illustration
7.	Confirm SNMP has been disabled (un-checked). • This is done by going to Printers and Scanners (on Win 10) • Selecting the KIP Printer • Select Manage • Select Printer Properties • Select Ports • Select Ports • Select the KIP Port • Select Configure port • SNMP Status Enabled should be unchecked.	Configure Standard TCP/IP Port Monitor × Port Settings Port Name: Your IP Address Here Printer Name or IP Address: Your IP Address Here Protocol @ Raw C LPR Raw Settings 9100 Port Number: 9100 LPR Settings Queue Name:
8.	Within the KIP Window Driver Propertied the Printer Status will Display "Communication Disabled"	Printer Status Communication Disabled
9.	 the following items: 1. No Administrator or Ser 2. Free form type in for Pr 3. Bond is the only available 4. Color, Mono, Gray sele 5. Default Print Quality Pro 6. Finishing is Auto 7. Paper Source is Auto 8. Default stamps (None, 9. No Toner Status 10. No Media Status 	re set as the default and cannot be changed as

6 <u>Uninstalling the Windows Driver – Automatic</u>

The following section describes the automatic Uninstallation of the KIP System K Windows Driver[®]. Please follow the Step-by-step procedure for correct installation

Step	Action	Illustration
1.	Open the KIP Windows Driver installation package – Double Click the SYSWPD.exe	SYSKWPD.exe Type: Application
2.	Click the Gear in the lower left corner.	W 105 Systemic Review Exclusion 40.717 Initializion Handling Initializion Handling
3.	When the Aggressive Removal Logging window opens select Begin. Once "Success" message has been received close the windows driver application and reboot (always a good step to reboot).	Aggressive Removal Logging
	reboot (always a good step to	

7 Uninstalling the KIP Windows Driver - Manually

The following section describes the manual Uninstallation of the KIP System K Windows Driver® Please follow the Step-by-step procedure for correct installation

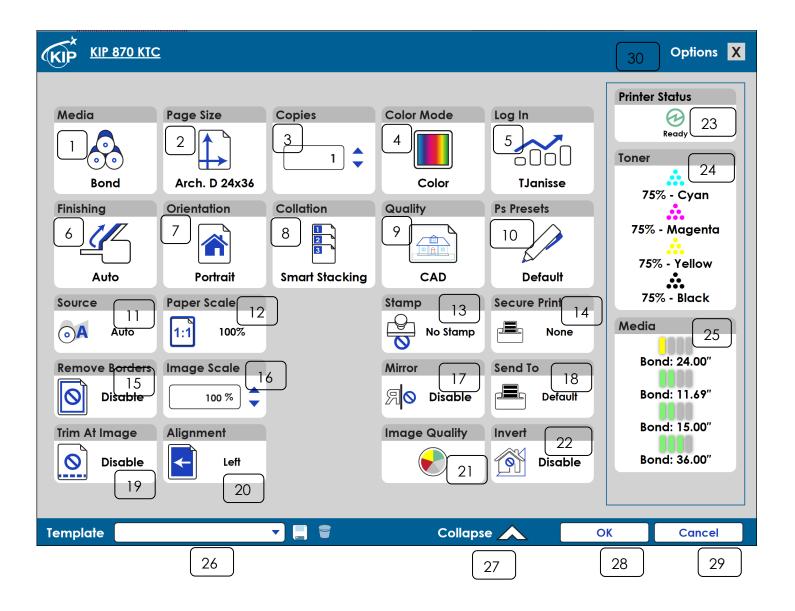
Step	Action	Illustration
1.	Open Devices and Printers	 Sticky Notes XPS Viewer Dbgview - Shortcut All Programs Isearch programs and files Isearch programs and files
2.	Select the device to be removed and then click Remove Device. Select "Yes" for the Remove Device Screen.	Add a device Add a printer See what's printing Manage default printers Print server properties Remove device • Devices (3) • <td< th=""></td<>

Step	Action	Illustration
3.	 Stop the Spooler – Right click on the "My Computer" Icon and select Manage. Select Services Select Print spooler from the list of services Select "Stop" 	Computer Management File Action View Help View Help View Help View Help View Help View Help View Name View Help View Help View Name View Help View Name View
4.	Browse to the following location: C:\Windows\System32\spool\ drivers • Open the w32x86 folder (if 32 bit) • Open the x64 folder (if 64 bit)	CalWindows\System32\spool\divers Grganize Include in library Search Organize Include in library Name Date modified Type Color T/14/2009 12:52 AM File folder T/14/2009 12:42 AM File folder W32x86 W17/2014 5:47 PM File folder W Recent Places X64 T/14/2009 12:42 AM File folder Search Search Search Search
5.	Open the "3" Folder	Image: System32 Organize Include in library Share with Name Posktop Downloads PCC

Step	Action	Illustration
6.	Remove all files that start with: • Dart • Gala • Grdp • Gvdp • Microsoft • Msvcp • Msvcr • SystemK • Vccorlib	Image: Second
7.	Go to Start\Run and type "Regedit"	See more results regedit ×
8.	Once open navigate to the following location: HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Control\Print\ Environments\Windows NT x86\ Drivers\Version-3\KIP 7170K Delete this folder. Note: final folder name will vary depending on the KIP Printer installed.	 Version-3 KIP 7170K Microsoft Shared Fax Driver Microsoft XPS Document Writer Remote Desktop Easy Print

Step	Action	Illustration
9.	Next go to the following location: HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Control\Print\ Printers\KIP 7170K Delete this folder. Note: final folder name will vary depending on the KIP Printer installed.	Printers Fax Fax Fax (redirected 1) KIP 7170K Microsoft XPS Document Writer Microsoft XPS Document Writer (redirected
10.	Start the Spooler – Right click on the "My Computer" Icon and select Manage. • Select Services • Select Print spooler from the list of services Select "Start"	Image: Computer Management File Action View Help Image: Computer Management File Action View Help Image: Computer Management View Help Image: Songe Image: Son
11.	REBOOT	THIS STEP IS NECESSARY!

8 Printing Preferences



a. Printing Preferences Main Screen

Component	Function
1. Media	Media Image: Second state Image: Second state Allows for the selection of available media currently loaded in the KID Drinter
2. Page Size	in the KIP Printer. Page Size Arch. D 24x36
	Allows for the selection of the original size of the document to be printed.
3. Copies	Copies 1
	Allows for the selection of the number of copies to be printed.

Component	Function	
4. Color Mode	Color Mode Gray Color Color	
	Set Color Mode, Choose from Black and White (1bit), Gray (8bit) and Color (24bit) modes for printing.	
5. Log In	Accounting Off Accounting On Log In %UserName% Accounting On For accounting purposes, the User Name, Job Number and Description fields can be used to enter information that will then be logged.	
6. Finishing	Finishing Auto Front Back Auto Back Allows for the selection of available finishing options, Top, Rear, Fold (if a folder is attached). Note: on the KIP 970 there is no Front option.	

Component	Function
7. Orientation	OrientationLandscapePortraitPortraitReverse LandscapeReverse Portrait
	Choose from: portrait, Reverse Landscape or Reverse Portrait.
8. Collation	CollationDefaultImage: CollationOffImage: CollationOnImage: CollationReverseSmart StackingSmart Stacking
	Allows for the collation of sets. Select from Default, Off, On, Reverse and Smart Stacking. On – 1, 2, 3 Reverse – 3, 2, 1 Smart Stacking – First page always on top, regardless of paper exit.
9. Quality	Quality CAD CAD CAD CAD
	 Choose from default Print Quality settings: CAD Graphics Photo Custom Print Quality Presets (if available)

Component	Function
10. HPGL/Ps Presets	HPGL Presets Ps Presets Default Default Used for the setting of a specific .pen table to be applied to HPGL\2 files.
11. Source	Source Auto Roll Bypass Select from Roll or Cut Sheet (if active and available)
12. Paper Scale	Paper Scale 1:1 100% Allows for the selection of Pre-Configured sizes or the entry of a specific Percentage.
13. Stamp	Stamp No Stamp Confidential Demo Allows for the selection of a specific stamp to be applied to all sheets printed in the job.

Component	Function	
14. Secure Print	Secure Print Secure Mode: None PIN : None PIN OK Re User	
	 Secure Print has the following options: None - Job is sent to the printer and prints out. 	
	 Pin - Allows for the entry of a code number (up to four digits) to be entered. If used this code will be necessary to release the files at the printer user interface. 	
	User – When selected job will be sent with the Users name. It will be necessary for that user to login on the KIP touchscreen to release the job.	
15. Remove Borders	Remove Borders Remove Borders Enable Disable	
	Allows the user to enable the ability to remove any white borders.	
16. Image Scale	Image Scale	
	Allows for the specific scaling of the output on the selted sheet.	
17. Mirror	Mirror Mirror R Enable R Disable	
	Allows the user to Mirror the image on the output file.	

Component	Function
18. Send To	Send To Default Printer On Hold Allows for the selection of how the files will be sent: Default, Printer and On Hold
19. Trim at Image	Trim At Image Trim At Image Enable Disable Allows the user to Clip the image to size.
20. Alignment	Alignment Default Left Center Right Chasse from Left Dight on Conter
21. Image Quality	Choose from: Left Right or Center Image Quality Image Quality Image Quality Image Quality
	Green to Red Adjust – Slider controlls Gren to Red color from -20 (Green) to +20 (Red). Blue to Yellow Adjust – Slider controlls Blue to Yellow colors from -20 (Blue) to +20 (Yellow).
	Note: If the the windows driver is used in Black and White mode these sliders do not affect the output.

Component	Function	
22. Invert	Invert Invert Image: Enable Invert Image: Allows the user to invert the image.	
23. Printer Status	Printer Status Ready	
	Displays realtime status of the KIP Printer.	
24. Toner	Toner 75% - Cyan 50% - Magenta 75% - Yellow 25% - Black	
	Displays realtime status of the remaining Toner.	
25. Media	Media Bond: 36.00" Bond: 36.00" Bond: 36.00" : 0.00"	
	Displays real time status of the available media currently loaded in the KIP Printer	

Component	Function
26. Template	Template
	Allows the user to create templates that can be used at anytime to load in specific configurations.
27. Expand/Collapse	Expand V Collapse
	Used to Collapse or expand the main properties window of the Driver.
28. Ok	ОК
	Set changed settings.
29. Cancel	Cancel
	Closes out of the screen
30. Options	Options X
	Displays available Options (see section below for explanation of Options)

Component	Function
Options Explained	Options
	Automatic Status Query: OEnable
	Refresh Status
	Mode: OGL
	Job Separator: OEnable
	Set Separator: OEnable
	Maintain Driver Preferences: OEnable
	Disable Pass Through: OEnable
	Driver Version: 1.83
	IP Address: 10.10.1.128
	SNMP Community: public
	OK Cancel
	 Refresh Status – Manually refreshes the status of the printer. Mode: KIP Script Output Format KIPScript (emulates Postscript output) when printing from applications that function best when outputting Postscript data. For example: Adobe Acrobat functions best when using Postscript output. Other graphics applications including Adobe Photoshop, Microsoft PowerPoint and Excel work well with KIPScript output.
	KIP GL Output Format
	KIPGL (emulates HP-RTL) when printing from CAD applications that may not have a pre-built compatible driver. The KIPGL output can be further enhanced by making changes to the pen table on the KIP via KIP PrintNET. Features like line width compensation and RTL dither allow users to achieve exceptional quality when using the KIPGL output format.
	 Job Separator – Job Separator prints after the entire job has finished
	 Set Separator - Set Separator prints after each set has finished

 Maintain Driver Preference – See Appendix 2 Disable Passthrough – See Appendix 2
 Driver Version – Displays Current Driver Version IP Address – Displays Current IP Address
 SNMP Community: allows the SNMP cummunity string to be changed from the default of PUBLIC to something the IT Administrator wants.

9 Driver Use

Please note: The setting "Detect Color" that can be applied to KIP Applications does not apply to Windows drivers. For Black and White, Greyscale or Color output the output mode needs to be selected.

8.1 Using the Driver from Adobe - Example

In this example Adobe Pro X will be used.

Step	Action	Illustration
1.	Open the Adobe Application	Adobe Acrobat XI Standard
2.	Go to File and then to "Open" or select from the "Open a Recent File" selection.	Attack Averside The Str. View Window Weigh Orgen frem Antabasen, Orgen frem Antabasen, Orgen Antabasen, Antaber Acopter XX Standard Open a Recent File Dental to JDF Dental to JDF
3.	Go to File and Select Print and choose the KIP Printer.	Print Printer: KIP 7970 Copies: 1
4.	To use the available options, select the Properties button.	Properties

Step	Action	Illustration
5.	Once the Properties button opens make desired changes.	KIP & 2/2 KLC Options X Media Page Size Color Mode Log In Bond Fortal Image Size Color Mode Log In Bond Fortal Image Size Color Mode Log In Bond Fortal Image Size Image Size Image Size Bond Fortal Image Size Image Size Image Size Bond Fortal Image Size Image Size Image Size Auto Orientation Collation Image Size Image Size Image Size Auto Fortal Image Size Image Size Image Size Image Size Image Size Template Image Size Image Size Image Size Image Size Image Size Template Image Size Template Image Size Image Size Image Size Image Size Image Size Image Size Smart Size King Image Size Image Size Image Size Image Size Image Size Image Siz
6.	Select Expand for more options.	Expand V Note: see the Above section for descriptions of options.
7.	Select OK	ОК
8.	Select Print to send the File to the KIP Printer.	Print

8.2 Using the Driver from AutoCAD - Example

Please note: The setting "Detect Color" that can be applied to KIP Applications does not apply to Windows drivers. For Black and White, Greyscale or Color output the output mode needs to be selected.

For this example, AutoCAD 2012 was used.

Step	Action	Illustration
1.	Open the AutoCAD Application	AutoCAD 2018 - English
2.	Click on the "A" in the top Left corner. When the Drop-down window opens select Print.	Print
3.	Select the KIP Printer Driver From the available printers list.	Printer/plotter Name: HIP 970 Plotter: KIP 900 - Windows System Driver - by Autodesk
4.	To use the available options, select the Properties button.	Properties
5.	Select the Custom properties button	Custom Properties

Step	Action	Illustration		
6.	Once the Properties button opens make desired changes.	KIP 220 LXC Options Media Page Size Color Mode Log in Bond Auch. D 24:34 I I I I I I I I I I I I I I I I I I I		
7.	Select Expand for more options.	Expand V		
		Note: see the Above section for descriptions of options.		
8.	Select OK	ОК		
9.	Select Print to send the File to the KIP Printer.	Print		

8.3 Using the Driver from Shared location (Correct User Name)

When the KIP windows Driver is installed on a server and is shared out to users the driver will take the name of the logged in user during installation. In most instances this will be Administrator. When the driver is used the log, files will reflect this and log the user as Administrator. To change this functionality so the proper user is logged follow the steps below.

Step	Action	Illustration
1.	Once the shared driver is pulled from the Shared location. At the workstation, open the Printer Properties and select Manage. Note: this example shows the steps for a Windows 10 PC.	Printers & scanners
2.	From the Manage your device list on the left side of the screen select "Printer Preferences.	 KIP-870-KTC Manage your device Printer status: Idle Open print queue Set as default Print a test page Run the troubleshooter Printer properties Printing preferences Hardware properties
3.	The Log in Box will display "administrator" as this is was the logged in user when the driver was installed at the server. Select the Login box.	KIP-870-KTC Options X MEDIA PAGE SIZE COPIES QUALITY LOG IN Bond Arch. D 24x36 Image: Copies Graphics Administrator FINISHING ORIENTATION COLIATION PENS (PS) SECURE PRINT Front Portrait On Default None Template Image: Copies Expand V OK CANCEL

Step	Action	Illustration
4.	Select the User name to be associated with the KIP windows driver (logged in user at the workstation). Select the OK button to set the User Name.	LOG IN Vser Name Administrator SECURE PRINT None Vservice Administrator Service Administrator Password None OK CANCEL
5.	The Log in button will now display the logged in user name. The selected User Name persist and not need to be selected again.	
	Note: It is necessary to do these steps at each workstation if the logged in user at the workstation is to be used. If this is not done Administrator or the logged in name at the Server where the KIP Windows Driver was installed will be used.	TJanisse

Appendix 1

Manually removing the Windows driver.

In some instances, it may be necessary to manually remove the KIP Windows driver from the Server/Workstation. The following steps will help ensure that all of the pieces have been successfully removed.

Instructions for removing driver:

- 1) Remove print queue in Devices and Printers
- 2) Stop/start spooler
- 3) Remove driver in Printer Server Properties
- 4) Stop spooler
- 5) Clear "C:\windows\system32\spool\drivers\(w32x86 or x64)\3\temp" directory
- 6) Start spooler

Note: If there is a problem with either step 1 or 3 the following may also be necessary.

Go to Start\Run and type Regedit and browse to the following locations:

Win 7 32bit

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\print\Environments\Windows NT x86\Drivers\Version-3\Remove KIP Printer folder here

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\print\Environments\Windows NT x86\Printers\Remove KIP Printer folder here

Win 7 64bit

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\print\Environments\Windows x64\Drivers\Version-3\Remove KIP Printer folder here

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\print\Environments\Windows x64\Printers\Remove KIP Printer folder here

Appendix 2

Maintain Driver Preferences

When the **Maintain Driver Preferences** box is **checked** (turned ON); the document to be printed will utilize the printing preferences set from the application being used which will then become the default for this application and other applications as well.

This function has benefits for applications that may utilize batch printing such as:

- Autodesk Revit
- Adobe

Orientation:

Auto portrait/landscape
 Portrait
 Landscape

- Photoshop
- Microstation

Example of Functionality:

With Maintain Driver Preferences **Disabled** (turned OFF)

The KIP Window Driver was installed and the default settings were set to the following ...

- Paper Size set to 24x36in.
- Orientation set to **Portrait**.

KIP 870KTC		OPTIONS		
		Automatic Status Query:	⊙Disable OEnable	
		REFRESH STATUS		
	PAGE SIZE	Mode:	ops Ogl	
		Job Separator:	⊙Disable ○Enable	
ond	Arch. D 24x36	Set Separator:	⊙Disable ○Enable	
IG	ORIENTATION	Maintain Driver Preferences:	⊙Disable ○Enable	
		Disable Pass Through:	⊙Disable ○Enable	
ont	Portrait	Driver Version: 1.47		
		IP Address: 10.10.1.128		
		SNMP Community: public		

The print options in Adobe will reflect the KIP Driver defaults set during the install even if the Paper size and Orientation is changed for any instance of printing.

Print					
Printer: KIP 870KT	C		 Properties 	Advanced	<u>Help</u> (
Copies: 1	•		Print in gray	rscale (black and white) ner (j)	
Pages to Print				Comments & Forms	
All				Document	\sim
O Current page					
O Pages 1 - 3				Summarize Comments	
More Options				Scale: 282%	
Page Sizing & Han	dling (i)			24 x 36 Inches	
Size	Poster	Multiple	Booklet		
Fit				Paper Sizes	

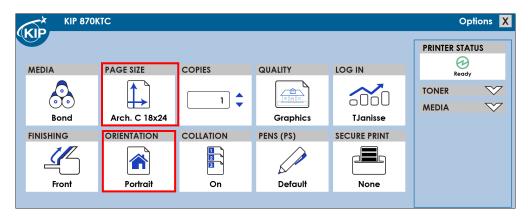
With Maintain Driver Preferences Enabled (turned ON)

The print options in Adobe will now reflect the settings set during the last instance of printing. In this case the last page size in the Adobe application was set to 18X24.

Maintain Driver Preferences:	O Disable Enable	Print Printer: KIP 870KTC ~ Copies: 1 ÷	Properties Advanced Print in grayscale (black and white) Save ink/toner
		Pages to Print ● All ○ Current page ○ Pages 1 - 3 ▶ More Options	Comments & Forms Document Summarize Comments Scale: 212%
		Page Sizing & Handling	18 x 24 Inches

By going to the installed printers (Windows 7 Icon\Devices and printers) printing preferences you can verify the new default settings. The new default settings are now set to the following...

- Paper Size set to **18x24in**.
- Orientation set to **Portrait**.



With the Maintain Driver Preferences turned ON, the change made in the application has become the new global default for the driver.

Disable Postscript Passthrough

Disable Postscript Passthrough", when Disabled (Default) allows applications capable of rendering their own postscript to be honored by the driver.

"Disable Postscript Passthrough", when Enabled, forces the Windows Driver to render PostScript data directly, preventing capable application(s) from generating its own Postscript data. Some programs, such as Corel Draw, Word, Excel, etc. can render Postscript data natively which may cause conflict in certain situations.

	OPTIONS	
Automatic Status Qu	ery:	 Disable Enable
	REFRESH STATUS	
Mode:		● PS ○ GL
Job Separator:		⊙ Disable ○ Enable
Set Separator:	⊙ Disable ○ Enable	
Maintain Driver Prefe	⊙Disable ○Enable	
Disable Pass Through	:	⊙Disable ○Enable
Driver Version:	1.47	
IP Address:	10.10.1.128	
SNMP Community:	public	
ОК		CANCEL

The KIP PDF option is required for printing KIPScript data. Please contact your local KIP dealer for details.

Certain applications work better depending on the Output Format.

- Applications using heavy raster or photographic data work best with KIPScript type output. Examples: Adobe Acrobat products, Adobe Illustrator Products, Adobe Photoshop Products and Corel Draw based products.
- Microsoft applications generally work well with either output format. Examples: Microsoft Word, Excel, Project.

Appendix 3

Using Role Based Access Control (RBAC) with the KIP Windows Driver

If the RBAC is being used to create specific roles for individual users these roles will apply when printing from the KIP System K Windows Driver (SYSKWPD) as well.

There are two main Roles that can be applied to the SYSKWPD, Color User and B&W User. If a role is created (using the KIP Accounting Center application) and is then assigned to a user's login they will only have these abilities when printing from SYSKWPD. The bellow screen shots show what happens if the user does not have the rights to print in either B&W or Color.

Black & White Only User – This user only has the ability to print with B&W output. When the wants to print they will be prompted to enter the required data. Ore if they want to go to Printing Preferences they will be prompted for required. Here all three fields are required:

KIP 870						Options X
	DA OF SIZE	KIP 870		X	[PRINTER STATUS
MEDIA	PAGE SIZE		ony	•		Ready
		Password •	••		n	TONER
Bond	Arch. D 24	Project #	ŧ1''	•		MEDIA
FINISHING	ORIENTATIO	Password			T	
1L		Department A	Accounting	-		
		Password •	••			
Front	Portrait					
			ОК	CANCEL		
Template		V 🗄	Ехро	and 💙	OK	CANCEL

Once logged in they will be able to make the necessary changes prior to sending their file to the KIP Printer. The user "Tony" is a B&W only user. When logged in only BlackWhite and Gray are available selections.

Print Quality:	Photo 🔹
Color Mode:	Gray 🔹
	BlackWhite
	Gray

Here the user "Steve" is a Color Only User – This user only has the ability to print with Color output. When a Color File is selected and then the user tries to print in B&W mode the following message appears:

1	KIP 870						Options X
9				IP 870	Į	x	PRINTER STATUS
	MEDIA	PAGE SIZE		lame Steve	_		Ready
			Passwo			n	TONER
	Bond	Arch. D 24	Project	t #1"	•		MEDIA
	FINISHING	ORIENTATION	Passwo	ord		NT	
	1L		Depart	rtment Accounting	•		
			Passwo	ord •••			
	Front	Portrait		01	C ANIOTI		
				ОК	CANCEL		
٦	emplate			3	Expand 💙	01	CANCEL

Once logged in they will be able to make the necessary changes prior to sending their file to the KIP Printer. The user "Steve" is a Color only user. When logged in color mode as well as BlackWhite and Gray are available selections.

Print Quality:	Photo 🔹
Color Mode:	Color 🔹
OK R	BlackWhite Gray
	Color

Appendix 4

Setup Local/Shared Templates for use in the KIP Windows Driver

The KIP Windows Driver has the ability to create templates that can be used at a later time.

When creating a template, the user will have the choice of saving the template in one of two ways:

- 1. Locally the template created will be saved to the local workstation and will only be available for use from that workstation.
- 2. Shared the template created is shared to all clients connected to a shared instance of the Printer.

Note: The ability to save/delete shared templates is dependent upon the NTFS security permission 'Manage this printer' assigned for the user(s)/group(s) against the shared printer object.

To create a Local Template, follow these steps:

Step	Action	Illustration
1.	Open Devices and Printers, Right click on the Printer Icon, Select 'Printing Preferences'.	Open Open in new window See what's printing ✓ Set as default printer Printing preferences Printer properties Create shortcut Troubleshoot Remove device Properties
2.	Once the Preferences window opens make desired setting selections. Here the following are set: • Paper size – 12x18 • Quality – CAD/Gray	Options X MEDIA PAGE SIZE COPIES QUALITY Print Quality: CAD Bond Arch. B 12x18 1
3.	Select the Save Button	Template

Step	Action	Illustration
4.	Enter the name for the template and select OK.	Name : 24x18 CAD-Gray OK RESET CANCEL
		workstation where it is created.
5.	The new template will now be available in the dropdown list.	Template 24x18 CAD-Gray BOND-2TEST 5 24x18 CAD-Gray 0

To create a Shared Template, follow these steps:

Step	Action	Illustration
1.	Open Devices and Printers, Right click on the Printer Icon, Select 'Printing Preferences'.	Open Open in new window See what's printing ✓ Set as default printer Printing preferences Printer properties Create shortcut Troubleshoot Remove device Properties
2.	Once the Preferences window opens make desired setting selections. Here the following are set: • Paper size – 24x18 • Quality – CAD/B&W	Options X MEDIA PAGE SIZE COPIES Image: Size copies GUALITY <
3.	Select the Save Button	Template 🔽 📕 🥛
4.	Enter the name for the template and select the Icon to share the template (it will turn green) Note: The ability to save/delete a shared template is dependent upon the NTFS security permission 'Manage this printer' assigned for the user(s)/group(s) against the shared printer object.	Name : 24x18 CAD-BW
	Select OK.	Note: The template will be shared for other users attached to the shared instance. If the icon to share the template is not active, the user does not have permissions to save the template as a shared template.

Step	Action	Illustration
5.	The new template will now be available in the dropdown list.	Template 24x18 CAD-BW Image: Calibratic constraints 43 24x18 CAD-Gray 7.4 43 BOND-2TEST Image: Calibratic constraints 7.6 44 24x18 CAD-BW Image: Calibratic constraints 7.6
		Note: Shared templates will have the 🚨 Icon next to it.

Appendix 5 - KIP Windows Driver in a Citrix Environment

1 - Installing driver on print server

Connect to print server. Can be physical server or Citrix Virtual Server Desktop.

Citrix StoreFront	FAVORITES			Citrix Admin 🔻
			Q Search De	sktops
Detai 2012R2 Desktop	Is WIN10X64	Details	WIN7X64	Details

Manual Install:

Open print manager

Right click printer and select add printer

德	Print	Management	:		_ 🗆 X
File Action View Help					
🗢 🄿 🙍 🖬 🙆	?				
🏣 Print Management	Printer Name	Queue Status	Jobs In	Server Name	Actions
 Custom Filters Print Servers 	Send To OneNote 2013	Ready Ready	0	2012R2 (local) 2012R2 (local)	Printers 🔺
 2012R2 (local) Drivers Forms Ports Printers 					More Actions
Deployed Printers					
	< 111			>	
	,				

Select Add a TCP/IP or Web Services Printer by IP address or hostname

la Network Prin	ter Installation Wizard
Printer Installation Pick an installation method.	
 Search the network for printers Add a TCP/IP or Web Services Printer by II 	P address or hostname
○ Add a new printer using an existing port:	LPT1: (Printer Port) V
○ Create a new port and add a new printer:	Client Printer Port V
	< Back Next > Cancel

Enter IP address and select Next

rk Printer Installation Wizard	x
ame or IP address.	
Autodetect 🗸	
192.168.1.104	
192.168.1.104	
to use.	
< Back Next >	Cancel
	me or IP address. Autodetect v 192.168.1.104 192.168.1.104 to use.

Select install new driver and click next

	Network Printer Installation Wizard	x
Pri	inter Driver Pick a driver for the new printer.	
	Use the printer driver that the wizard selected Compatible driver cannot be found. Use an existing printer driver on the computer	
	Citrix Universal Printer V	
۲	Install a new driver	
	< Back Next > Cance	I

Select have disk

le Network Printer Installation Wizard	X
Printer Installation Select the manufacturer and model of your printer.	
Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk.	
Manufacturer Printers Brother Canon Brother Color Type3 Class Driver Brother Color Type4 Class Driver Brother Color Type4 Class Driver Brother Color Type4 Class Driver Brother Generic Jpeg Type1 Class Driver Brother Generic Jpeg Type1 Class Driver Brother Generic Joea Type2 Class Driver This driver is digitally signed. Windows Update Have Disk Tell me why driver signing is important	·
< Back Next > Canc	el

Browse to KipSystemK.inf and select Open

1		Locate File			X
Look in:	SYSKWPD_v	.0.980_(CERTIFIED)	~	G 🤌 📂 🛄 -	
(Here)	Name	^		Date modified	Туре
2	📗 AMD64			5/12/2017 12:32 PM	File folder
Recent places	1386			5/12/2017 12:32 PM	File folder
	👔 KipSystemK			4/11/2017 8:00 AM	Setup Info
Desktop					
Libraries					
This PC					
Network	<	Ш			>
Network	File name:	KipSystemK		~	Open
	Files of type:	Setup Information (*.inf)		×	Cancel

Select the printer model and click next

leine Network Printer Installation Wizard	x
Printer Installation Select the manufacturer and model of your printer.	
Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk.	
Printers KIP 7170K KIP 7570K KIP 770K KIP 7770K KIP 7970K This driver is digitally signed. Tell me why driver signing is important	^ ≡ ×
< Back Next > C	ancel

Enter printer name and sharing settings

		Network Printer Installation Wizard	x
Pri		Sharing Settings printer a friendly name and specify whether other people can use the printer.	
	nter Name:	KIP 960	
	Share this prir	nter	
S	Share Name:	KIP 860	
L	Location:		
(Comment:		
		< Back Next > Cancel	

Click finish to finalize installation

-	Network Printer Installation Wizard	x
	Completing the Network Printer Installation Wizard	
	Status: Driver installation succeeded. Printer installation succeeded.	
	Your printer has been installed successfully.	
	To test the printer, select Print test page, and then click Finish.	
	To install another printer, select Add another printer, and then click finish.	
	 Print test page Add another printer 	
	< Back Finish Cance	<u>+</u>

Optional: Open Manage Sharing for KIP Printer and select list in directory to be automatically be discovered when adding the printer to the client

1	Print Ma	nagement			_ 🗆 🗙
File Action View Help					
🗢 🄿 🖄 📰 🗙 🗟					
朣 Print Management	Printer Name	Queue Status	Jobs In	Server Name	Actions
Custom Filters	💼 KIP 860	Ready	0	2012R2 (local)	Printers 🔺
⊿ Print Servers	Microsoft XPS Document Writer	Ready	0	2012R2 (local)	More Actions
⊿ 2012R2 (local) Drivers	🖶 Send To OneNote 2013	Ready	0	2012R2 (local)	
Forms					KIP 860 🔺
Ports				Open Printer Queue	e
Printers				Pause Printing	
📻 Deployed Printers				List in Directory	
				Deploy with Group	Policy
				Set Printing Default	S
				Manage Sharing	
				Print Test Page	
				Enable Branch Offic	e Direct Printing
				Properties	
				Delete	
				Rename	
				Help	
	<			>	
Displays the sharing properties	for the selected printers.				

KIP Windows Driver Installation & User Guide

 off. ✓ Share this printer Share name: KIP 860 ✓ Render print jobs on client computers ✓ List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the 	General Sharing Ports Advanced You can share this printer with other users on your network. The printer will not be available when the computer is sleeping or turne off. Share this printer Share this printer Share name: KIP 860 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of			KIP 860 F	ropertie	es	
You can share this printer with other users on your network. The printer will not be available when the computer is sleeping or turne off. Share this printer Share this printer Share name: KIP 860 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the	 You can share this printer with other users on your network. The printer will not be available when the computer is sleeping or turne off. Share this printer Share name: KIP 860 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer. 	Color Managem	ent	Secu	rity	Dev	vice Property Page
 printer will not be available when the computer is sleeping or turne off. Share this printer Share name: KIP 860 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the 	 printer will not be available when the computer is sleeping or turne off. Share this printer Share name: KIP 860 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer. 	General	Sha	ring	Por	ts	Advanced
Share name: KIP 860 ✓ Render print jobs on client computers ✓ List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the	Share name: KIP 860	🛒 🛛 printer v					
 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the 	 Render print jobs on client computers List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer. 						
 List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the 	✓ List in the directory Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer.	Share name:	KIP 860				
	shared printer.		irectory				

Automatic Installation

Run SYSKWPD.exe, enter your settings and click begin

Ŵ	KIP SystemK Printer Driver Installer v.0.3.0.980	
	Installation Har	dling
	Automatic	Manual
	Specify Printer Name:	SNMP Community:
	KIP 860	public
	Host Name or IP Address:	Discovered Host Name:
KIP SYSTEM K	192.168.1.104 v	
SOFTWARE	Specify Printer Model:	Specify Driver Output Type:
Administrative Rights Required	KIP 860 V	POSTSCRIPT V
		Restrict Driver Output Type
	Dest	
<u>8</u>	Ready	Begin Quit

Open Printer Properties of KIP 860 and select Sharing tab. Check the box labeled Share this printer. Optional: check box to list the printer in directory.

-		KIP 860 P	roperti	es	×			
Color Managem	ent	Secu	rity	Dev	ice Property Page			
General	General Sharing Ports Advanced							
	You can share this printer with other users on your network. The printer will not be available when the computer is sleeping or turned off.							
Share this p	rinter							
Share name:	KIP 860							
	Render print jobs on client computers							
✓ List in the directory								
Windows, y users do no	Drivers If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer. Additional Drivers							
			ОК		ncel Apply			

2 - Installing driver on Citrix Virtual Desktop from server share

Load Citrix Desktop VM

Citrix StoreFront	FAVORITES		Citrix Admin 🔻
			Q Search Desktops
Details 2012R2 Desktop	WIN10X64	Details	Details WIN7X64

Option 1:

Start, Run, then type the sharepath the to the KIP printer installed on the server. Click OK and the connection to the shared printer will be established.

🖅 Run	×
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	\\2012R2\KIP 860
	OK Cancel Browse

Option 2:

If the option to list the printer in the directory was enabled you can open devices and printers, click add printer and select it from the list.

Add a device	_		×
Choose a device or printer to add to this PC Select a device			
KIP 860 on 2012R2 Printer			
The printer that I want isn't listed			
E	Next	Can	cel

3 - Installing KIP printer driver locally on Citrix virtual desktop

Load Citrix virtual desktop (Win 7 or Win 10)

Citrix StoreFront	FAVORITES	DESKTOPS	Citrix Admin 🔻
			Q Search Desktops
Details 2012R2 Desktop	WIN10X64	Details	Details WIN7X64

Option 1:

Run the SYSKWPD.exe, enter the settings and click begin.

w	KIP SystemK Printer Driver Installer v.0.3.0.980	
	Installation Har	dling
	Automatic	Manual
	Specify Printer Name:	SNMP Community:
	KIP 860	public
KIP SYSTEM K	Host Name or IP Address: 192.168.1.104	Discovered Host Name:
SOFTWARE	Specify Printer Model:	Specify Driver Output Type:
Administrative Rights Required	KIP 860 V	POSTSCRIPT V
		Restrict Driver Output Type
	Ready	
☆		Begin Quit

Option 2:

Install manually using kipsysk.inf

Open devices and printers and select add a printer. Choose Add a printer using TCP/IP address or hostname.

		Х
÷	🖶 Add Printer	
	Find a printer by other options	
	O My printer is a little older. Help me find it.	
	○ Find a printer in the directory, based on location or feature	
	O Select a shared printer by name	_
	Browse	
	Example: \\computername\printername or http://computername/printers/printername/.printer	
	Add a printer using a TCP/IP address or hostname	
	○ Add a Bluetooth, wireless or network discoverable printer	
	Add a local printer or network printer with manual settings	
	Next Cance	

Enter the IP address and click next

		×
←	🖶 Add Printer	
	Type a printer hostname o	or IP address
	Device type:	Autodetect \checkmark
	Hostname or IP address:	192.168.1.104
	Port name:	192.168.1.104
	Query the printer and automat	cally select the driver to use
		Next Cancel

Select Have disk and browse to kipsystemk.inf

					×
←	🖶 Add	Printer			
	Install	the printer driver			
		Choose your printer fro	m th	e list. Click Windows Update to see more models.	
		To install the driver fron	nan	installation CD, click Have Disk.	
					_
	Manuf	acturer	^	Printers	•
	Brothe	r		🔄 Brother Color Leg Type1 Class Driver	
	Canon			🔄 Brother Color Type3 Class Driver	
	Citrix			🔄 Brother Color Type4 Class Driver	
	Dell			🔄 Brother Generic Jpeg Type1 Class Driver	
	Г		*	Destation Constanting for a Transfer Class Database	^
	📴 Th	is driver is digitally signed		Windows Update Have Disk	
	Tel	I me why driver signing is	imp	ortant	
					_
				Next Cancel	

Select the printer model and click next

				>
<i>←</i>	🖷 Add	Printer		
	Install	the printer driver		
	3	Choose your printer from the list. Click Wind	ows Update to see more mo	dels.
		To install the driver from an installation CD, o	lick Have Disk.	
	Printe	rs		^
	🔄 KIP	7970K 850		
		860		
				~
	📴 Tŀ	is driver is digitally signed.	Windows Update	Have Disk
	<u>Te</u>	II me why driver signing is important		
				Next Cancel

Give the printer a name and click next

			×
÷	🖶 Add Printer		
	Type a printer nar	ne	
	Printer name:	KIP 860	
	This printer will be inst:	illed with the KIP 860 driver.	
	· · · · · · · · · · · · · · · · · · ·		
		Next Cance	1

Select Do not share this printer and click next.

		>	×
~	🖶 Add Printer		
	Printer Sharing		
		nter, you must provide a share name. You can use the suggested name or type will be visible to other network users.	
	O not share this printer		
	○ Share this printer so that	others on your network can find and use it	
	Share name:	KIP 860	
	Location:		
	Comment:		
		Next Cancel	

Select Finish to complete the installation

		\times
\leftarrow	🖶 Add Printer	
	You've successfully added KIP 860	
	☑ Set as the default printer	
	To check if your printer is working properly, or to see troubleshooting information for the printer, print a	
	test page.	
	Print a test page	
	Finish Cancel	

4 - Installing driver on physical PC and having printers auto-populate on virtual desktop

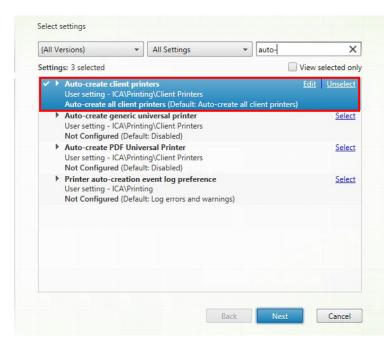
The printers that are installed on a PC/Server hosting a virtual desktop session can be auto-populated on the virtual machine. For example, I am using a notebook running Windows 7 x64 to host a Windows 10 x64 virtual desktop. All or some of the printers installed on the host will automatically populate in the devices and printers of the virtual desktop depending on the policy settings in Citrix Studio. By default, the policy is set to auto-populate ALL printers, but this can be changed by the System Admin.

To check or change these settings, launch the Citrix Studio on the controller running XenServer.

#		Citrix Studio	_ D X
File Action View Help			
Console Root Console Root Citrix Studio (EvalSite) Search Machine Catalogs AppDixks Delivery Groups Configuration Configuration Controllers Hosting Licensing Controllers Hosting Controllers Controll	CiTRIX Policies Policies 1 Unfiltered	Vnfiltered Overview Settings Assigned to Name: Unfiltered Priority: 1 Status: Enabled Description: This is the system-created default policy, it cannot be deleted. Note that its settings will apply to all connections.	Actions Policies Create Policy View Refresh Help Unfiltered Edit Policy Disable Policy Save as Template Help
⊿ X Citrix StoreFront Stores			

Select Policies, then Edit Policy...

Select Auto-Create client printers and select Edit



Any of the following options can be selected

Edit Setting				
Auto-create client printers				
Value: Auto-create all client printers Use Do not auto-create client printers Auto-create the client's default printer only Virtu Auto-create local (non-network) client printers only Virtu Auto-create all client printers T.1 Server OS, 7.1 Desktop OS, 7.5 Server OS, 7.8 Desktop OS, 7.9 Server OS, 7.9 Desktop OS, 7.1 Desktop OS, 7.8 Server OS, 7.12 Desktop OS, 7.9 Server OS, 7.13 Desktop OS * Description Specifies which client printers are auto-created. This setting overrides default client printer auto-creation settings. By default, all client printers are auto-created. This setting applies only if the "Client printer redirection" setting is enabled. "Auto-create all client printers" turns off printer autocreation when users log on. "Auto-create the client's default printer only" automatically creates the printer selected as the client's default printer. "Auto-create local (non-network) client printers only" automatically creates only printers directly connected to the client device through LPT, COM, USB, or other local port.				
OK Cance	I			

The printers have been populated from the host machine are indicated by hostname

