SYSTEM
SOFTWARE K

KIP Windows Driver Installation and User Guide

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Contents

1 Introduction 5
2 WPD loaded Locally 6
Prior to Install 6
Installation and Setup (Automatic) 7
3 WPD Network Share 9
Prior To Install 9
4 WPD Network Share with Group Policy 10
Prior To Install 10
5 Windows Drive with No SNMP Communication 11
6 Uninstalling the Windows Driver – Automatic 13
7 Uninstalling the KIP Windows Driver - Manually 14
8 Printing Preferences 18
a. Printing Preferences Main Screen 19
9 Driver Use 29
8.1 Using the Driver from Adobe - Example 29
8.2 Using the Driver from AutoCAD - Example 31
8.3 Using the Driver from Shared location (Correct User Name) 33
Appendix 1 35
Manually removing the Windows driver. 35
Appendix 2 36
Maintain Driver Preferences 36
Disable Postscript Passthrough 38
Appendix 3 39
Using Role Based Access Control (RBAC) with the KIP Windows Driver 39
Appendix 4 41
Setup Local/Shared Templates for use in the KIP Windows Driver 41
Appendix 5 - KIP Windows Driver in a Citrix Environment 45
1 - Installing driver on print server 45
2 - Installing driver on Citrix Virtual Desktop from server share 53
3 - Installing KIP printer driver locally on Citrix virtual desktop 55
4 - Installing driver on physical PC and having printers auto-populate on virtual desktop 60

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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

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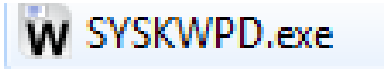
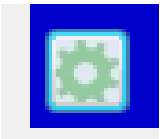
2 WPD loaded Locally

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.	
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	
4.	This will remove the KIP Windows Driver from the workstation.	
5.	**REBOOT THE WORKSTATION – 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 section - Installation and Setup (Automatic)**	

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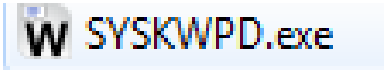
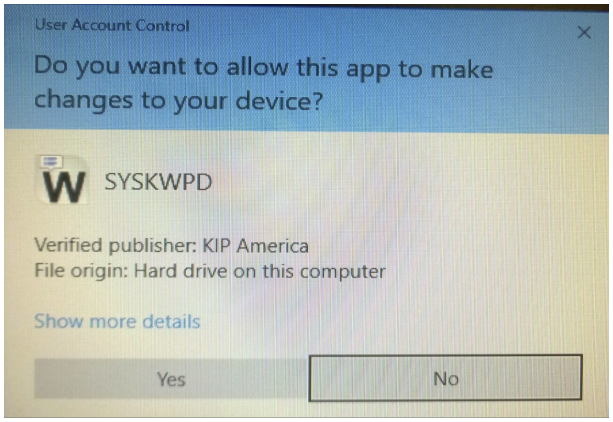
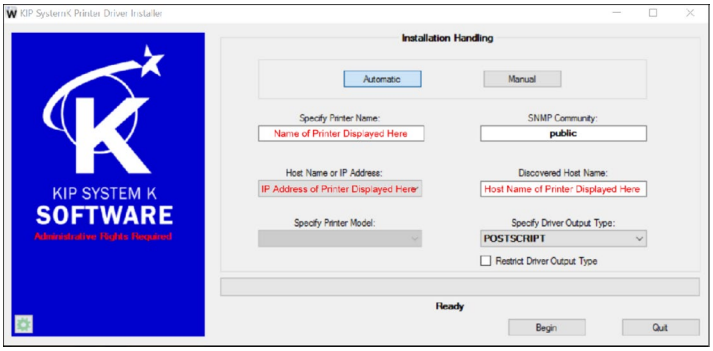
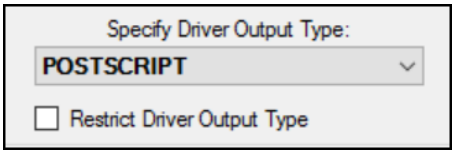
Installation and Setup (Automatic)

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

Step	Action	Illustration
1.	Open the Windows Driver folder and double click the WPD Pro icon.	
2.	If asked to authorize select “Yes”.	
3.	If Automatic is selected the installer will search network for System K printers. Once IP is selected from *Host Name or IP Address* pull down menu, the other fields will populate automatically. Click *Begin* 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 *Printer Name*, *Hostname or IP Address* and *Printer Model*.	 

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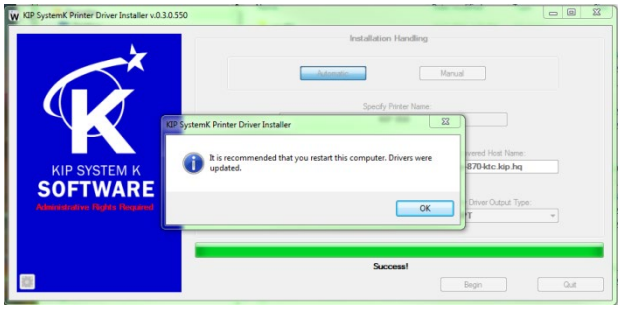
Step	Action	Illustration
4.	Once Complete the driver installation will display Success! A message to reboot may also be displayed.	
5.	**REBOOT THE WORKSTATION IF PROMPTED – THIS STEP MUST BE DONE!**	
6.	When Done Installing select the “Quit” button to Close the installation. Reb	
7.	The Driver is now installed and should be present in the Devices and Printers folder.	

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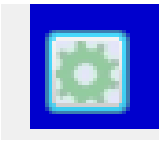
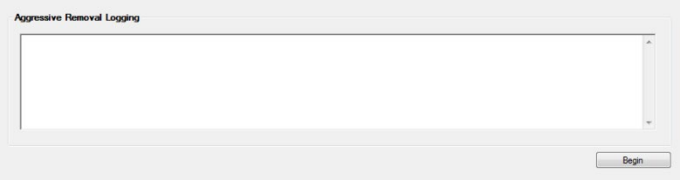
3 WPD Network Share

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	
5.	This will remove the KIP Windows Driver from the server.	
6.	**REBOOT THE SERVER – THIS STEP MUST BE COMPLETED!**	
7.	**Once the server has re-started run the KIP Windows Driver Installer again.**	
8.	**Follow the steps in section 2 Installation and Setup (Automatic)**	

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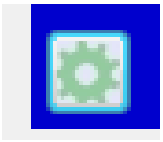
4 WPD Network Share with Group Policy

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.	
5.	This will remove the KIP Windows Driver from the server.	
6.	**REBOOT THE SERVER – THIS STEP MUST BE COMPLETED!**	
7.	**Follow the steps in section 2 Installation and Setup (Automatic)**	
8.	Re-Publish in Group Policy	

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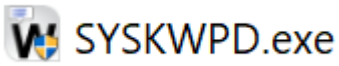
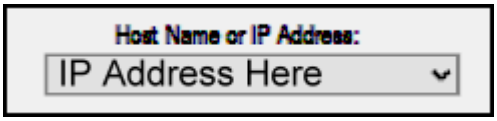
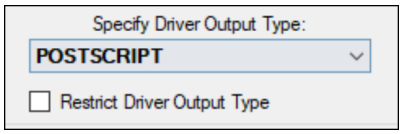
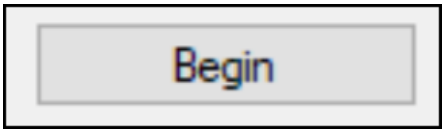
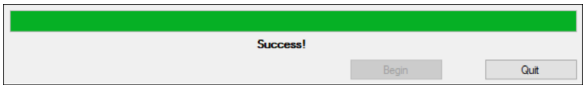
5 Windows Drive with No SNMP Communication

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	
2.	Select the correct printer to attach to. Select Drop-down arrow if multiple printers are available.	
3.	Select correct driver output type.	
4.	Check the box “Disable Bi-Directional Communication”. This will disable the SNMP communication.	
5.	Select Begin	
6.	Select Quit when installation says “Success”	

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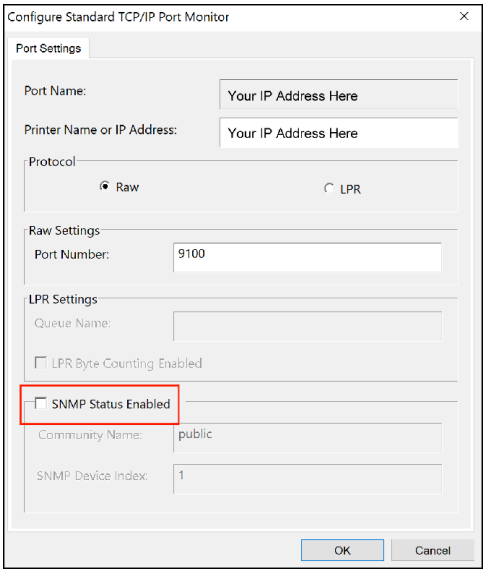
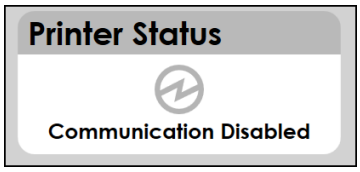
Step	Action	Illustration
7.	Confirm SNMP has been disabled (un-checked). • This is done by going to Printers and Scanners (on Win 10) • Selecting the KIP Printer • Select Manage • Select Printer Properties • Select Ports • Select the KIP Port • Select Configure port • SNMP Status Enabled should be unchecked.	
8.	Within the KIP Window Driver Propertied the Printer Status will Display “Communication Disabled”	
9.	While in this mode there is no communication with the KIP printer. This will affect the following items: 1. No Administrator or Service entries for Username (only current user name) 2. Free form type in for Project and Department (no drop-downs/no passwords) 3. Bond is the only available paper type 4. Color, Mono, Gray selection always available in Color mode. 5. Default Print Quality Presets (CAD, Graphics and Photo) only. 6. Finishing is Auto 7. Paper Source is Auto 8. Default stamps (None, Confidential and Demo) only. 9. No Toner Status 10. No Media Status **NOTE: the above items are set as the default and cannot be changed as there is no communication with the printer.**	

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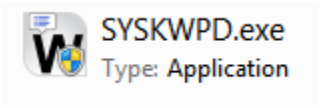
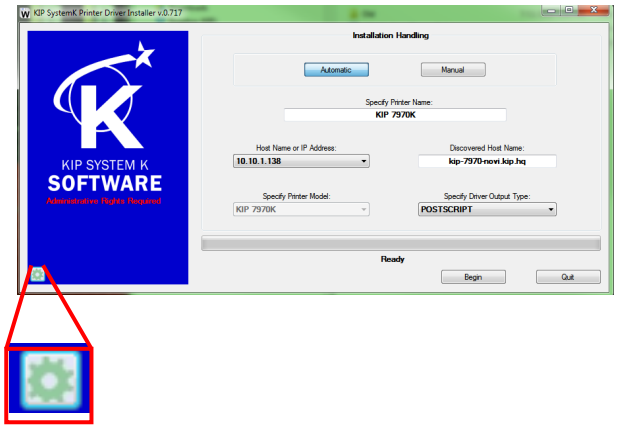
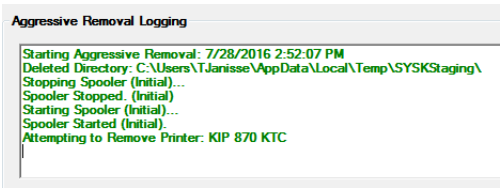
6 Uninstalling the Windows Driver – Automatic

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	
2.	Click the Gear in the lower left corner.	
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).	Removal will begin 

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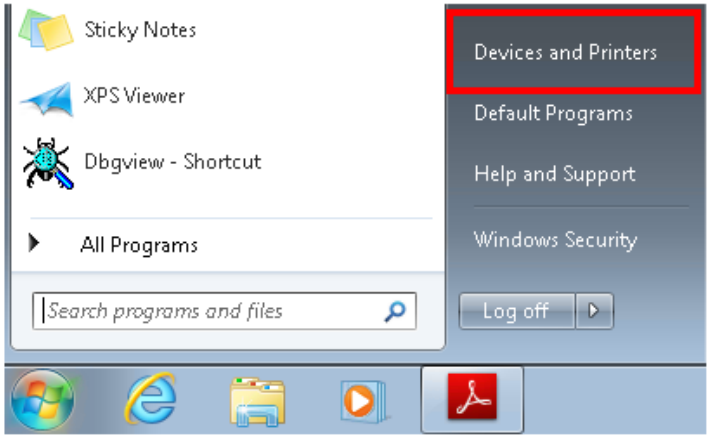
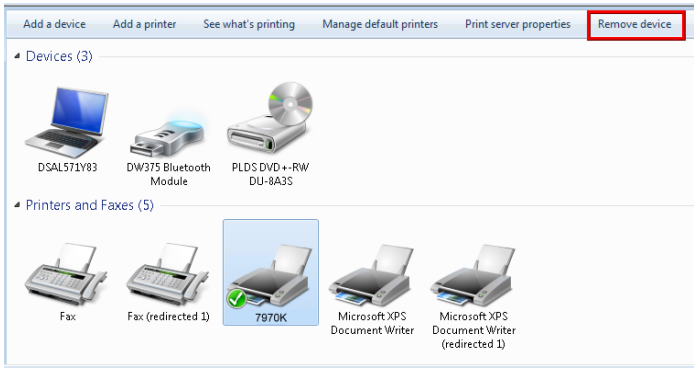
7 Uninstalling the KIP Windows Driver - Manually

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	
2.	Select the device to be removed and then click Remove Device. Select “Yes” for the Remove Device Screen.	

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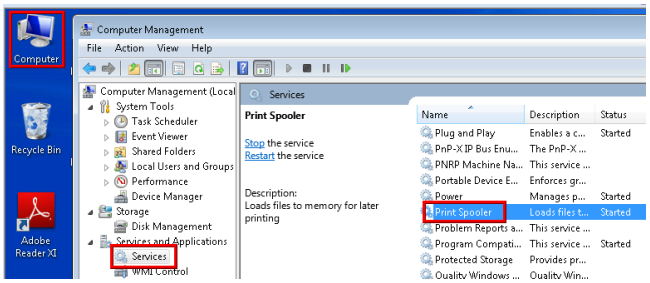
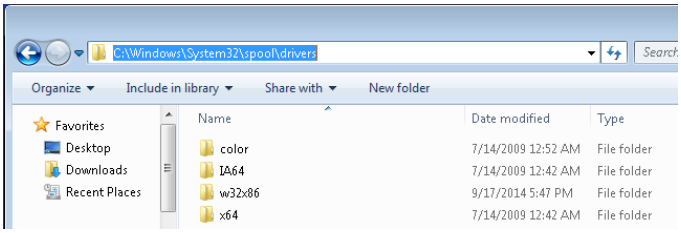
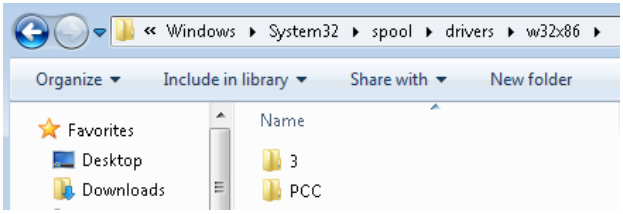
Step	Action	Illustration
3.	Stop the Spooler – Right click on the “My Computer” Icon and select Manage. • Select Services • Select Print spooler from the list of services • Select “Stop”	
4.	Browse to the following location: C:\Windows\System32\spool\drivers • Open the w32x86 folder (if 32 bit) • Open the x64 folder (if 64 bit)	
5.	Open the “3” Folder	

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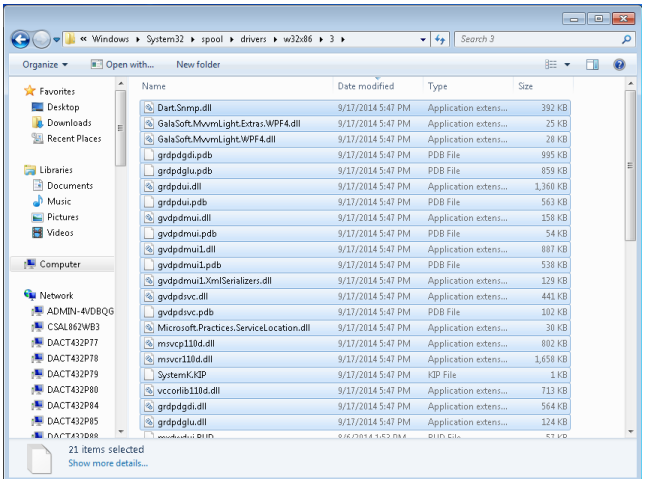
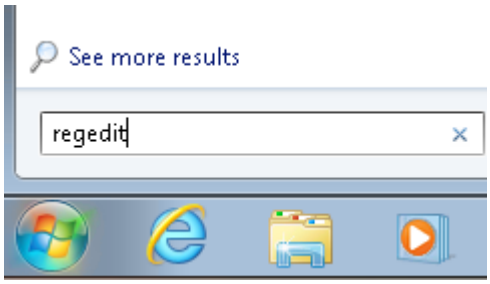
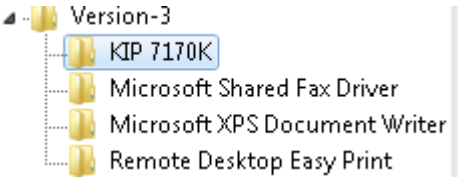
Step	Action	Illustration
6.	Remove all files that start with: • Dart • Gala • Grdp • Gvdp • Microsoft • Msvcp • Msvcr • SystemK • Vccorlib	
7.	Go to Start\Run and type “Regedit”	
8.	Once open navigate to the following location: HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Control\Print\ Environments\Windows NT x86\ Drivers\Version-3\KIP 7170K Delete this folder. Note: final folder name will vary depending on the KIP Printer installed.	

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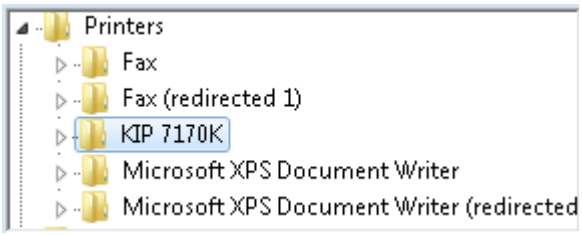
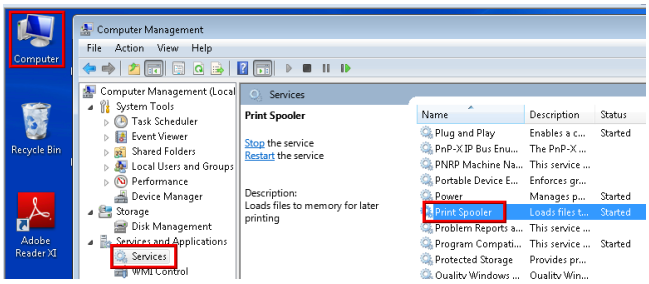
Step	Action	Illustration
9.	Next go to the following location: HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Control\Print\ Printers\KIP 7170K Delete this folder. Note: final folder name will vary depending on the KIP Printer installed.	
10.	Start the Spooler – Right click on the "My Computer" Icon and select Manage. • Select Services • Select Print spooler from the list of services Select "Start"	
11.	**REBOOT**	**THIS STEP IS NECESSARY!**

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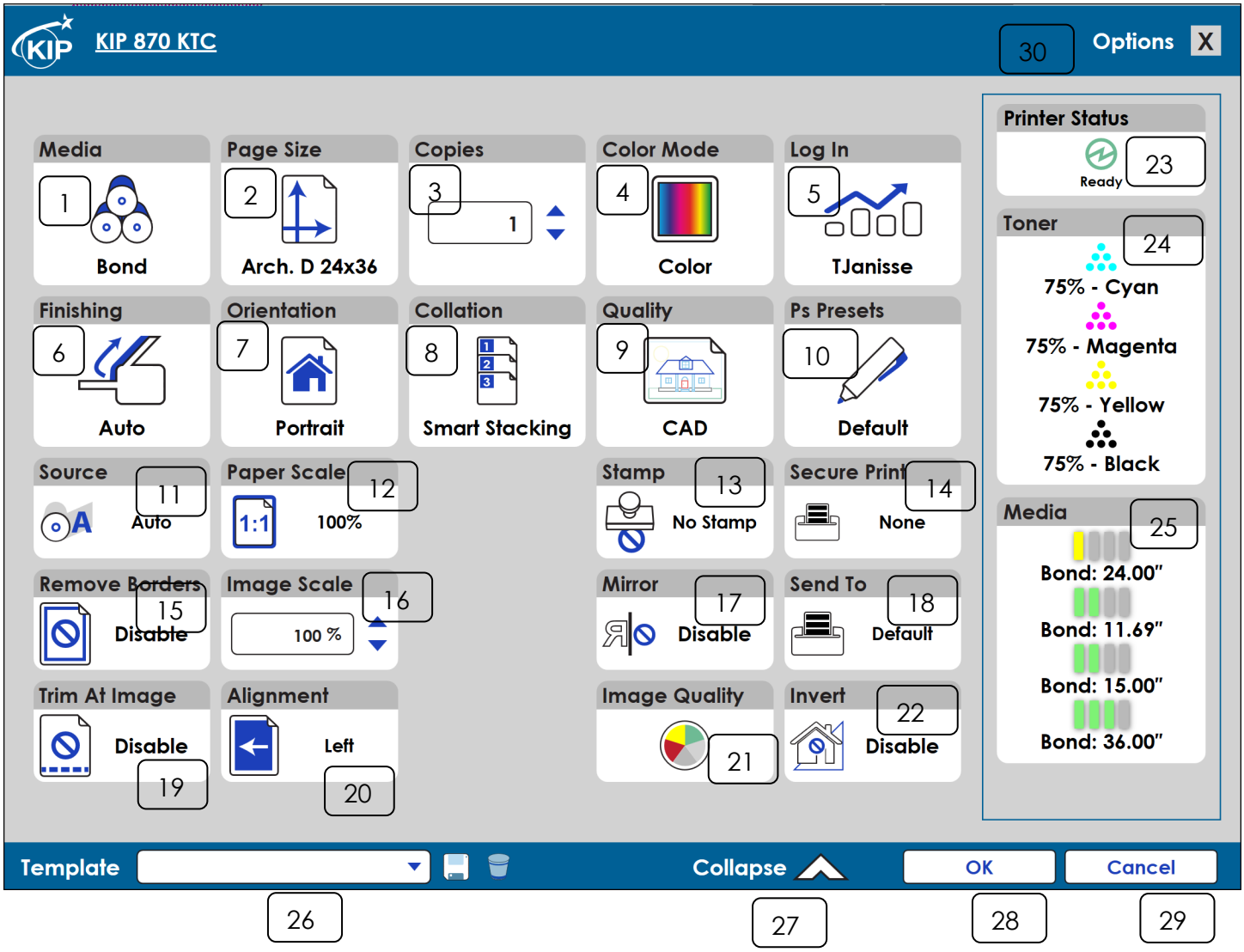
8 Printing Preferences



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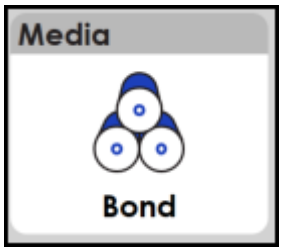
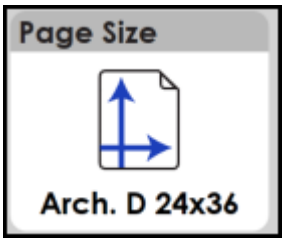
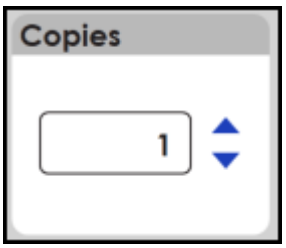
a. Printing Preferences Main Screen

Component	Function
1. Media	
	Allows for the selection of available media currently loaded in the KIP Printer.
2. Page Size	
	Allows for the selection of the original size of the document to be printed.
3. Copies	
	Allows for the selection of the number of copies to be printed.

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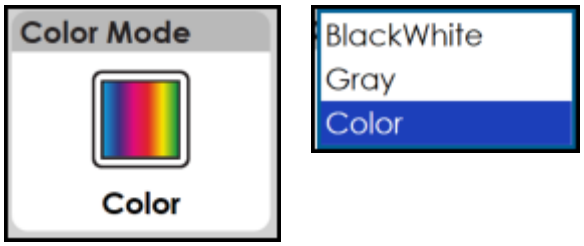
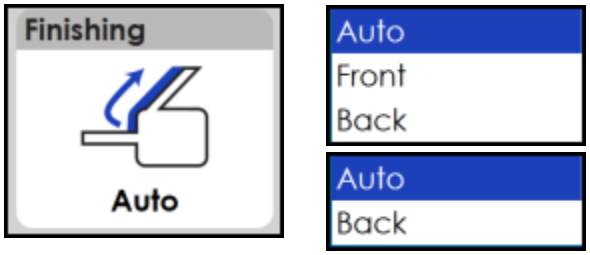
Component	Function
4. Color Mode	
	Set Color Mode, Choose from Black and White (1bit), Gray (8bit) and Color (24bit) modes for printing.
5. Log In	Accounting Off Accounting On
	For accounting purposes, the User Name, Job Number and Description fields can be used to enter information that will then be logged.
6. Finishing	
	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.**

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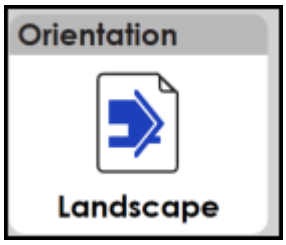
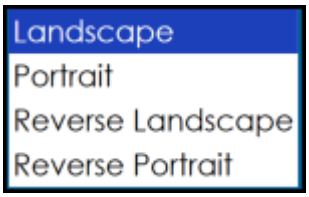
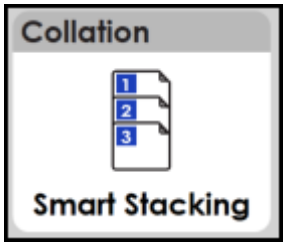
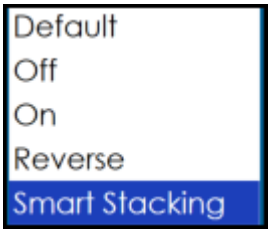
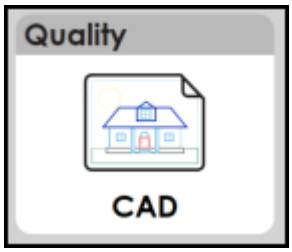
Component	Function
7. Orientation	 
	Choose from: portrait, Reverse Landscape or Reverse Portrait.
8. Collation	 
	Allows for the collation of sets. Select from Default, Off, On, Reverse and Smart Stacking. On – 1, 2, 3 Reverse – 3, 2, 1 Smart Stacking – First page always on top, regardless of paper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

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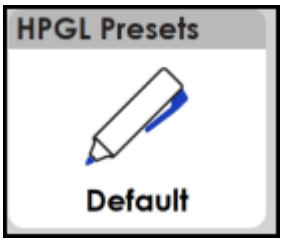
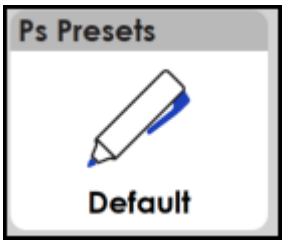
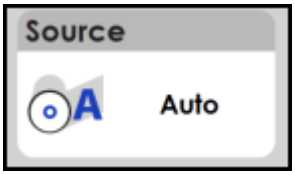
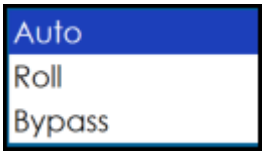
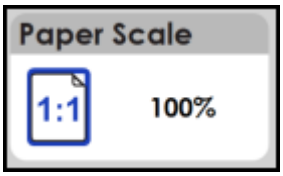
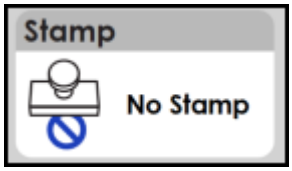
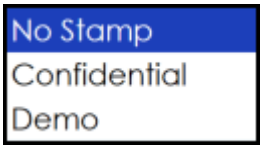
Component	Function
10. HPGL/Ps Presets	 
	Used for the setting of a specific .pen table to be applied to HPGL\2 files.
11. Source	 
	Select from Roll or Cut Sheet (if active and available)
12. Paper Scale	
	Allows for the selection of Pre-Configured sizes or the entry of a specific Percentage.
13. Stamp	 
	Allows for the selection of a specific stamp to be applied to all sheets printed in the job.

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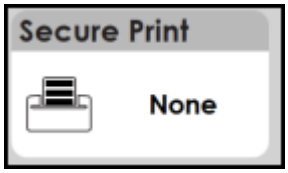
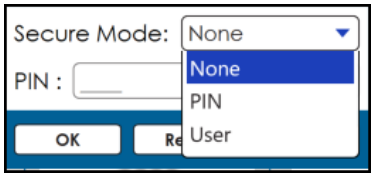
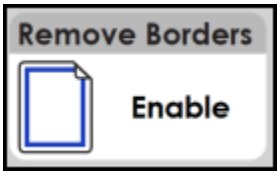
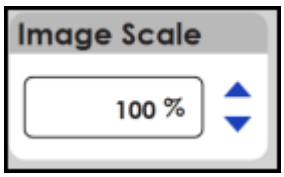
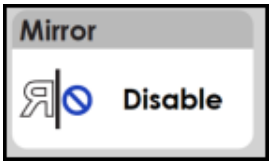
Component	Function
14. Secure Print	 
	Secure Print has the following options: • None - Job is sent to the printer and prints out. • Pin - Allows for the entry of a code number (up to four digits) to be entered. If used this code will be necessary to release the files at the printer user interface. User – 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	
	Allows the user to enable the ability to remove any white borders.
16. Image Scale	
	Allows for the specific scaling of the output on the selted sheet.
17. Mirror	
	Allows the user to Mirror the image on the output file.

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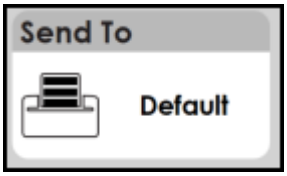
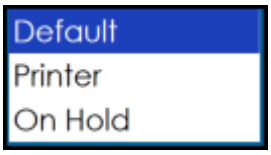
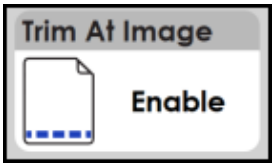
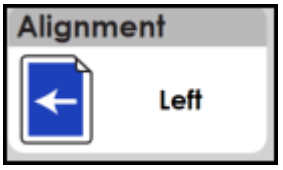
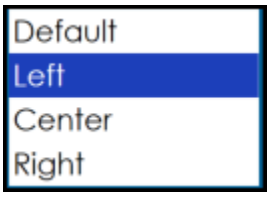
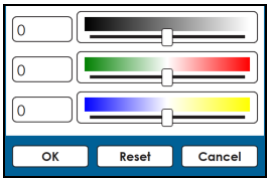
Component	Function
18. Send To	 
	Allows for the selection of how the files will be sent: Default, Printer and On Hold
19. Trim at Image	
	Allows the user to Clip the image to size.
20. Alignment	 
	Choose from: Left Right or Center
21. Image Quality	
	Brightness – Slider controlls brightnes from -20 (dark) to +20 (light). 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.**

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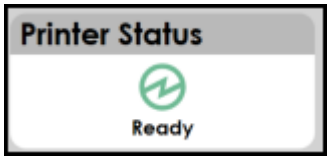
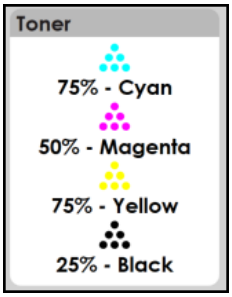
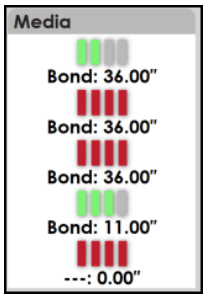
Component	Function
22. Invert	
	Allows the user to invert the image.
23. Printer Status	
	Displays realtime status of the KIP Printer.
24. Toner	
	Displays realtime status of the remaining Toner.
25. Media	
	Displays real time status of the available media currently loaded in the KIP Printer

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

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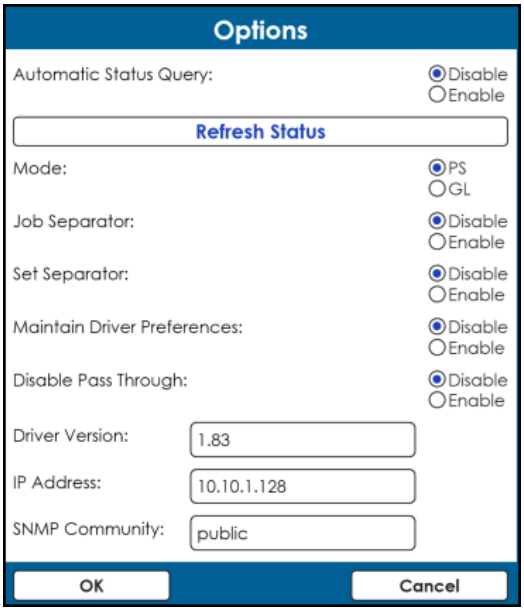
Component	Function
Options Explained	
	• Automatic Status Query – If Enabled, status of the printer will be checked periodically. • Refresh Status – Manually refreshes the status of the printer. • Mode: **KIP Script Output Format** KIPScript (emulates Postscript output) when printing from applications 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

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	• 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.

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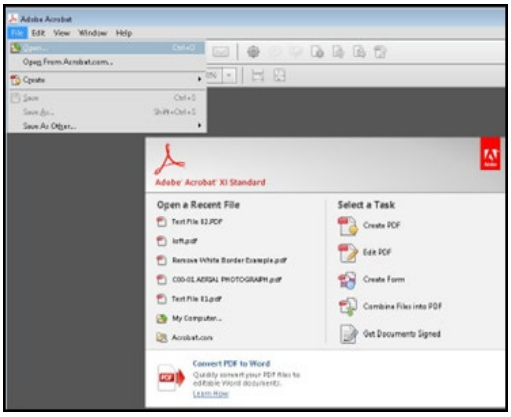
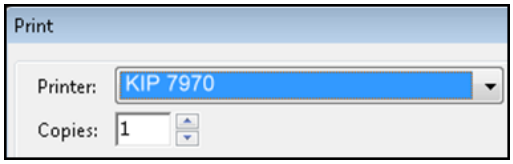
9 Driver Use

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	
2.	Go to File and then to “Open” or select from the “Open a Recent File” selection.	
3.	Go to File and Select Print and choose the KIP Printer.	
4.	To use the available options, select the Properties button.	

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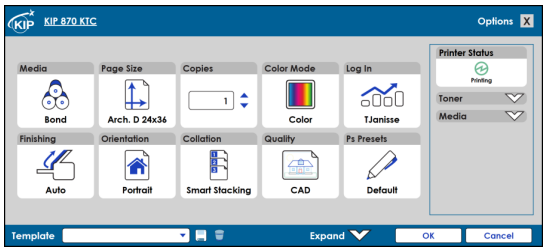
Step	Action	Illustration
5.	Once the Properties button opens make desired changes.	
6.	Select Expand for more options.	 Note: see the Above section for descriptions of options.
7.	Select OK	
8.	Select Print to send the File to the KIP Printer.	

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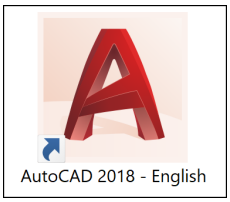
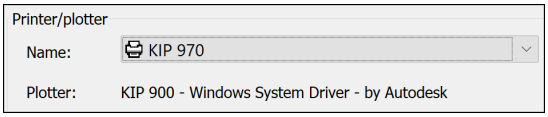
8.2 Using the Driver from AutoCAD - Example

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	
2.	Click on the “A” in the top Left corner. When the Drop-down window opens select Print.	
3.	Select the KIP Printer Driver From the available printers list.	
4.	To use the available options, select the Properties button.	
5.	Select the Custom properties button	

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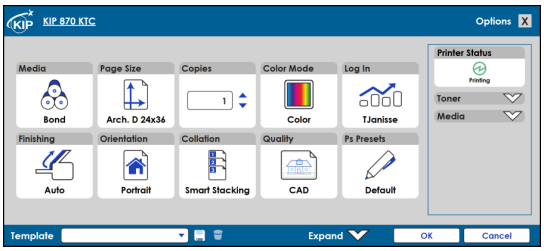
Step	Action	Illustration
6.	Once the Properties button opens make desired changes.	
7.	Select Expand for more options.	 Note: see the Above section for descriptions of options.
8.	Select OK	
9.	Select Print to send the File to the KIP Printer.	

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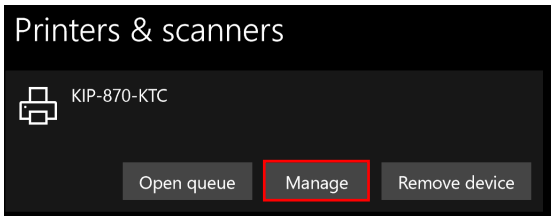
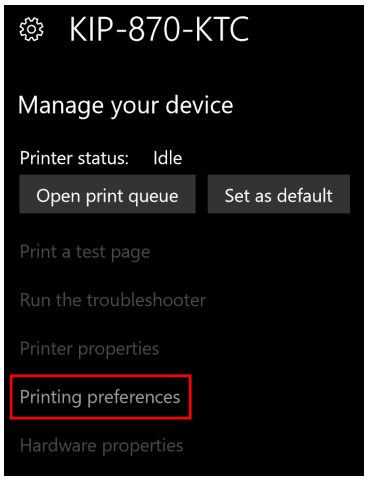
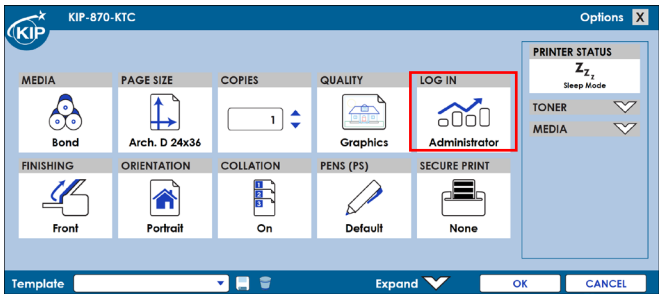
8.3 Using the Driver from Shared location (Correct User Name)

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.**	
2.	From the Manage your device list on the left side of the screen select “Printer Preferences.	
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.	

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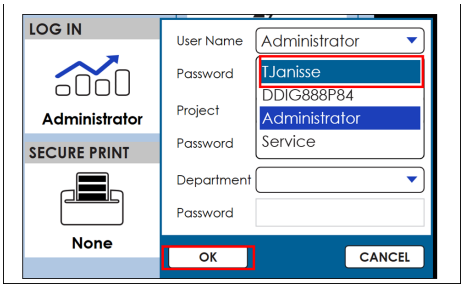
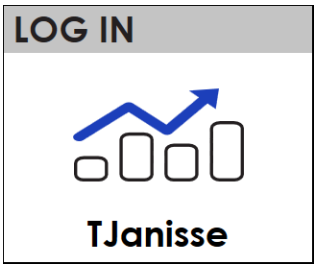
Step	Action	Illustration
4.	Select the User name to be associated with the KIP windows driver (logged in user at the workstation). Select the OK button to set the User Name.	
5.	The Log in button will now display the logged in user name. The selected User Name persist and not need to be selected again. **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.**	

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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

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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.

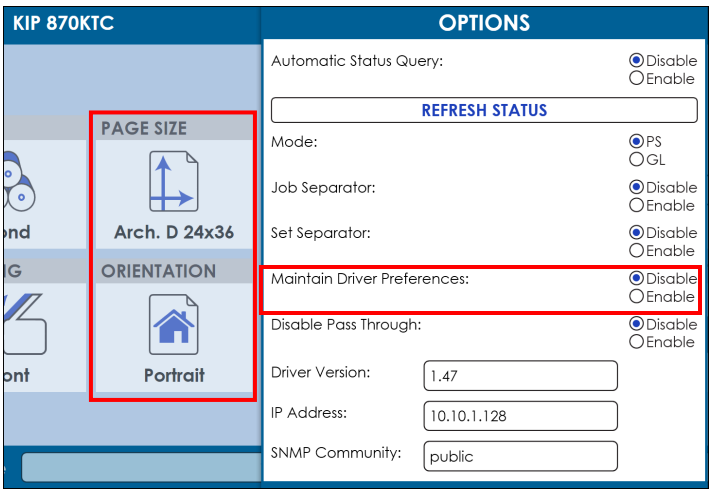
This function has benefits for applications that may utilize batch printing such as:

- Autodesk Revit
- Adobe
- Photoshop
- Microstation

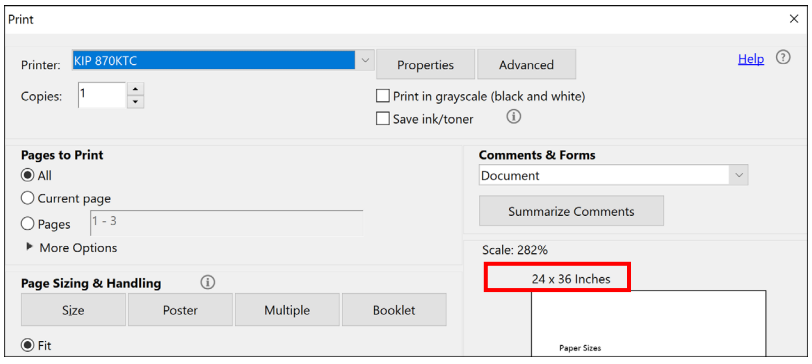
Example of Functionality:

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**.



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.



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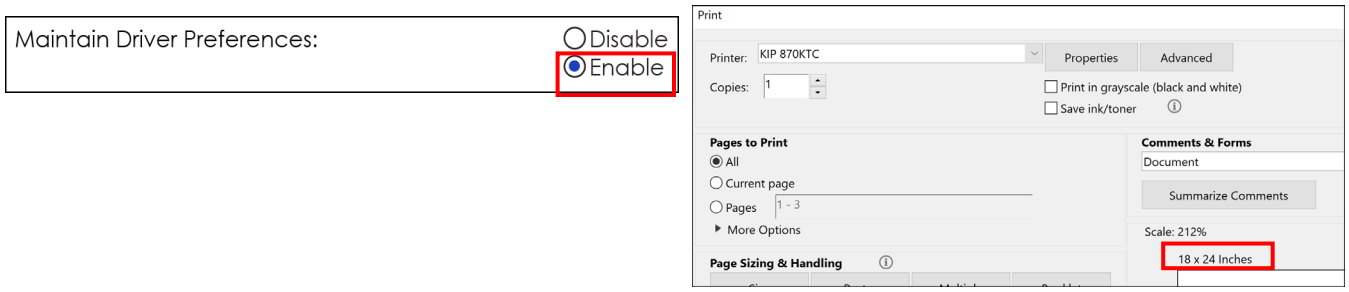
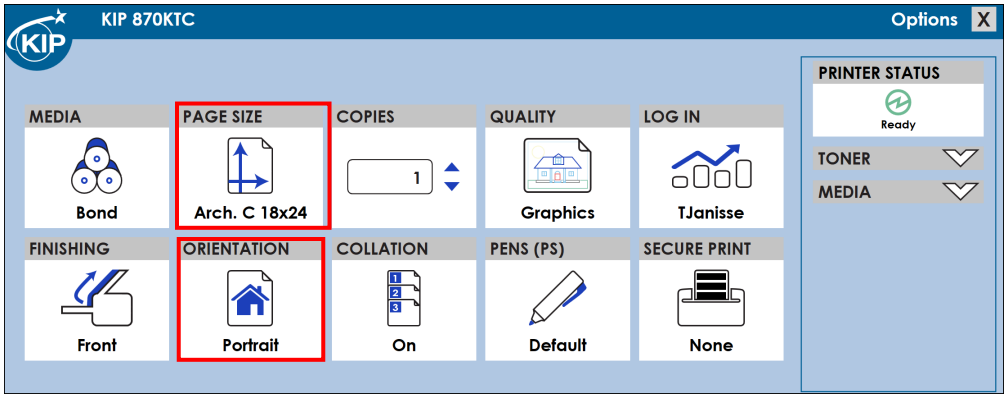
With Maintain Driver Preferences **Enabled** (turned ON)
The print options in Adobe will now reflect the settings set during the last instance of printing. In this case the last page size in the Adobe application was set to 18X24.



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.

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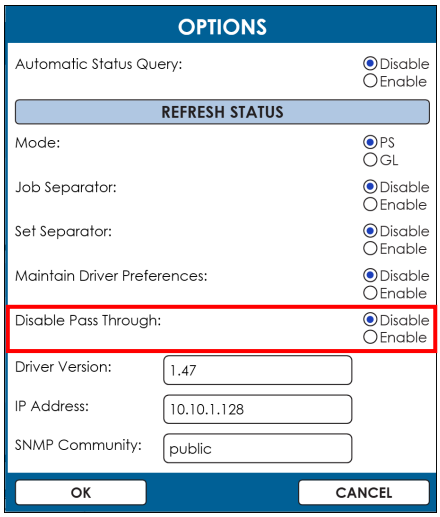
Disable Postscript Passthrough

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.



NOTE

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

NOTE

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.

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Appendix 3

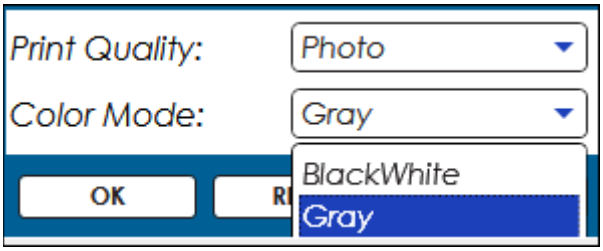
Using Role Based Access Control (RBAC) with the KIP Windows Driver

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:

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.



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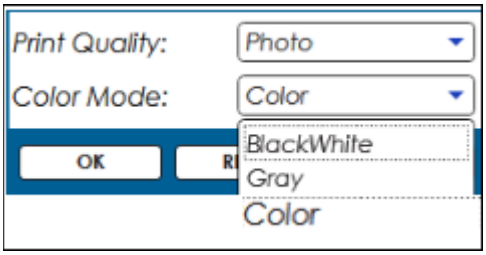
Here the user “Steve” is a Color Only User – This user only has the ability to print with Color output. When a Color File is selected and then the user tries to print in B&W mode the following message appears:

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.



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Appendix 4

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

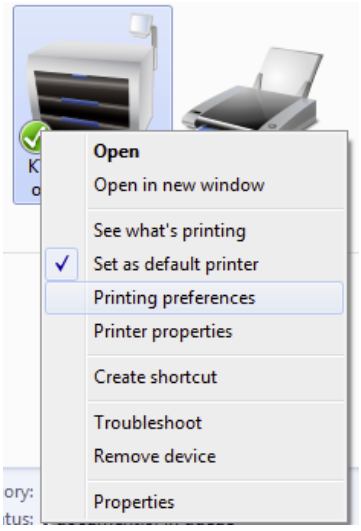
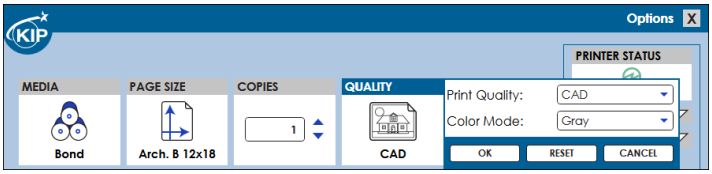
The KIP Windows Driver has the ability to create templates that can be used at a later time.

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'.	
2.	Once the Preferences window opens make desired setting selections. Here the following are set: • Paper size – 12x18 • Quality – CAD/Gray	
3.	Select the Save Button	

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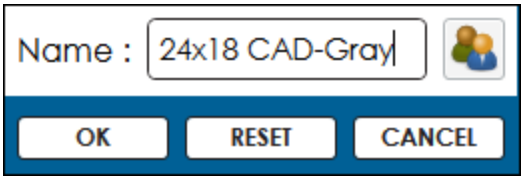
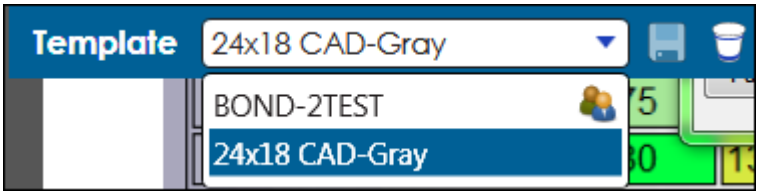
Step	Action	Illustration
4.	Enter the name for the template and select OK.	 Note: The template will be saved locally to the workstation where it is created.
5.	The new template will now be available in the dropdown list.	

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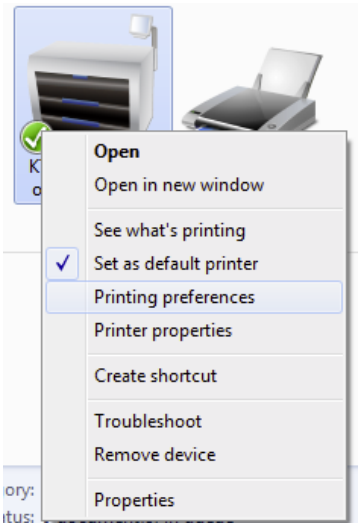
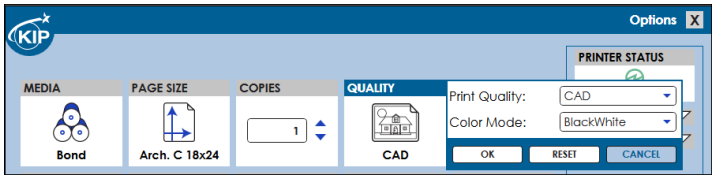
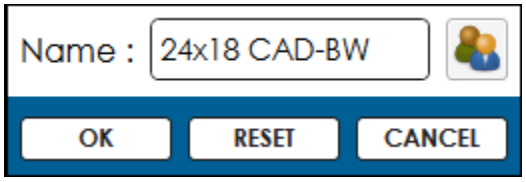
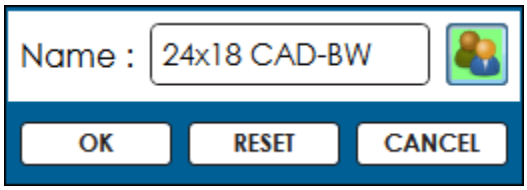
To create a Shared Template, follow these steps:

Step	Action	Illustration
1.	Open Devices and Printers, Right click on the Printer Icon, Select 'Printing Preferences'.	
2.	Once the Preferences window opens make desired setting selections. Here the following are set: • Paper size – 24x18 • Quality – CAD/B&W	
3.	Select the Save Button	
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.** 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.

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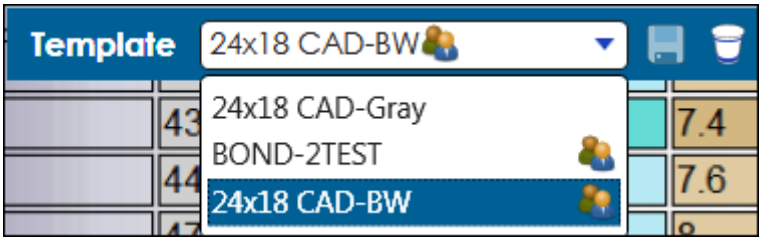
Step	Action	Illustration
5.	The new template will now be available in the dropdown list.	
		Note: Shared templates will have the Icon next to it.

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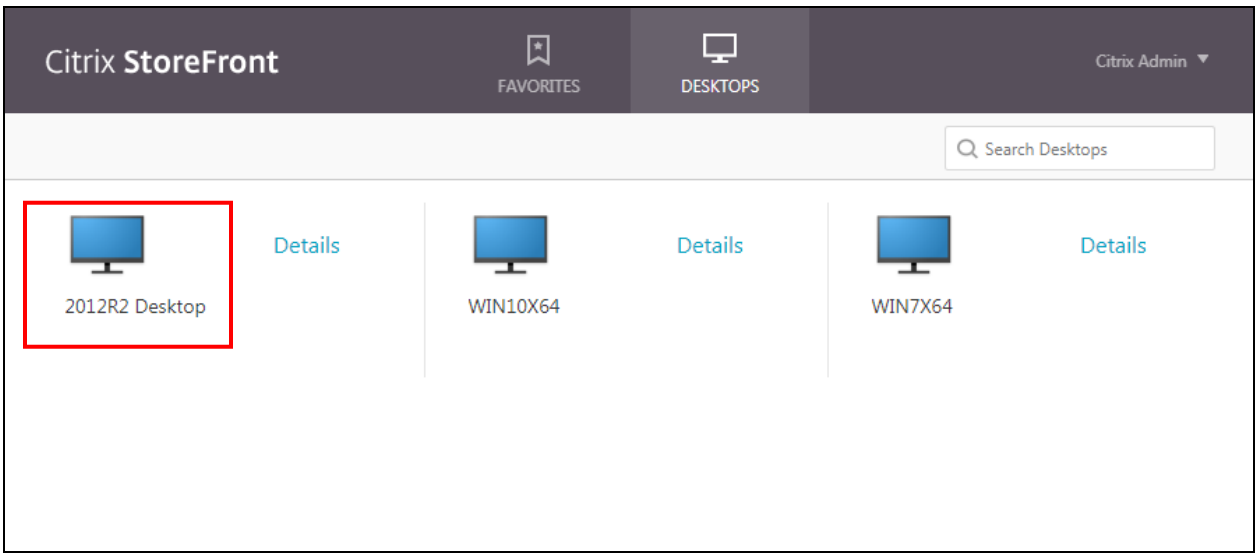
Appendix 5 - KIP Windows Driver in a Citrix Environment

1 - Installing driver on print server

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



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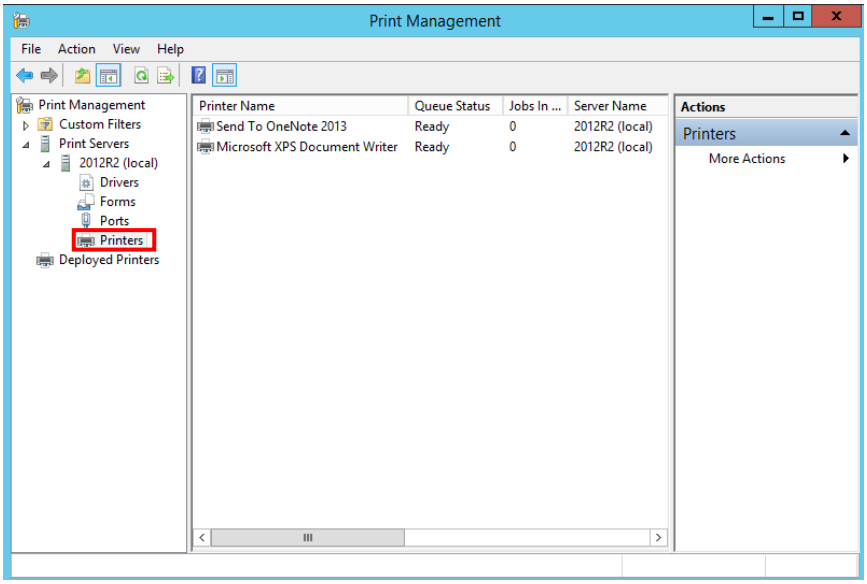
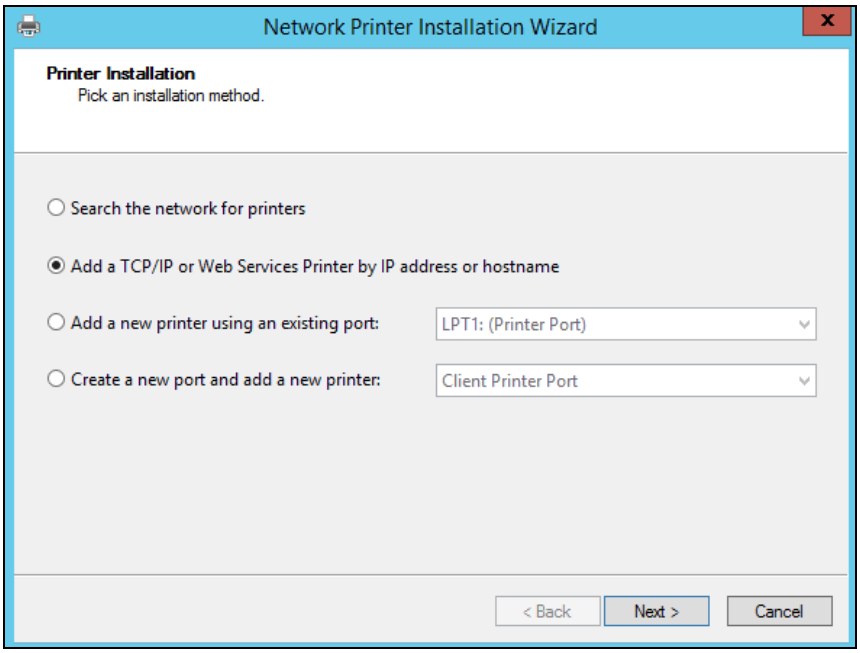
Manual Install:

Open print manager

Right click printer and select add printer



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



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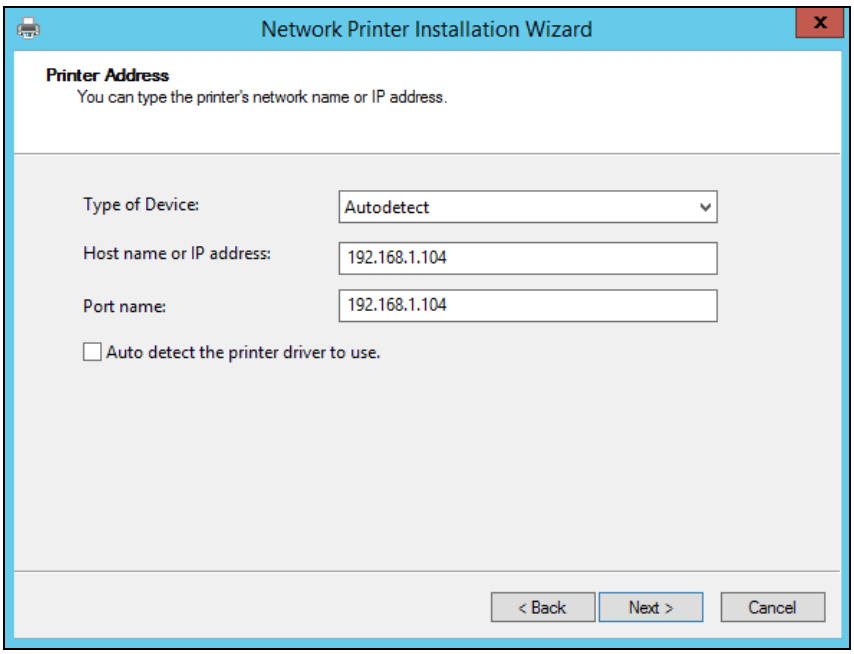
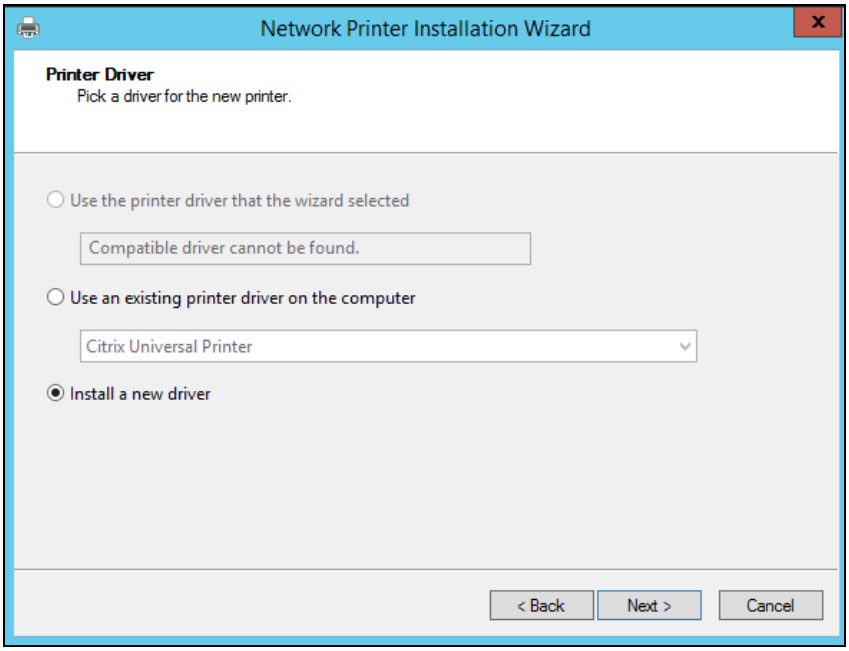
Enter IP address and select Next



Select install new driver and click next



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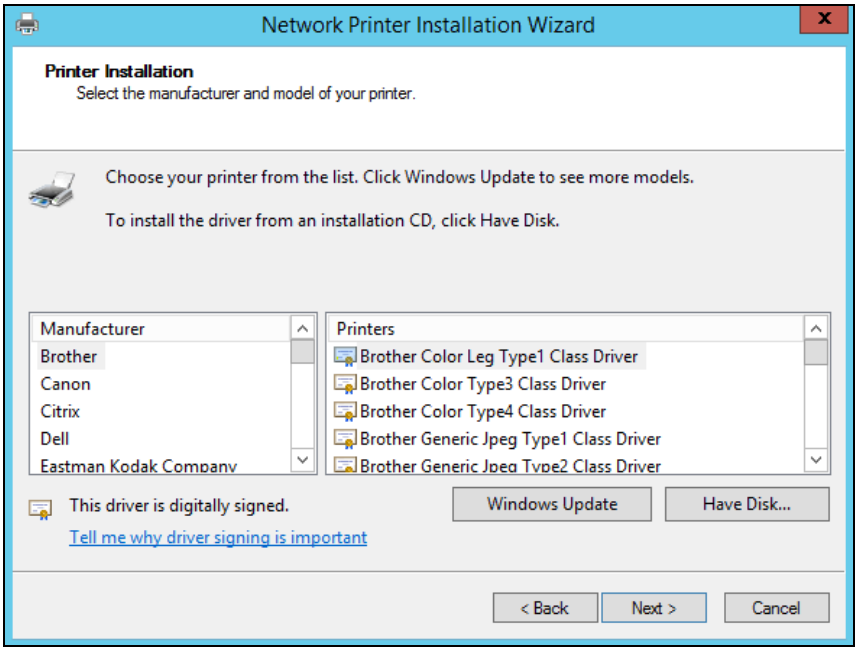
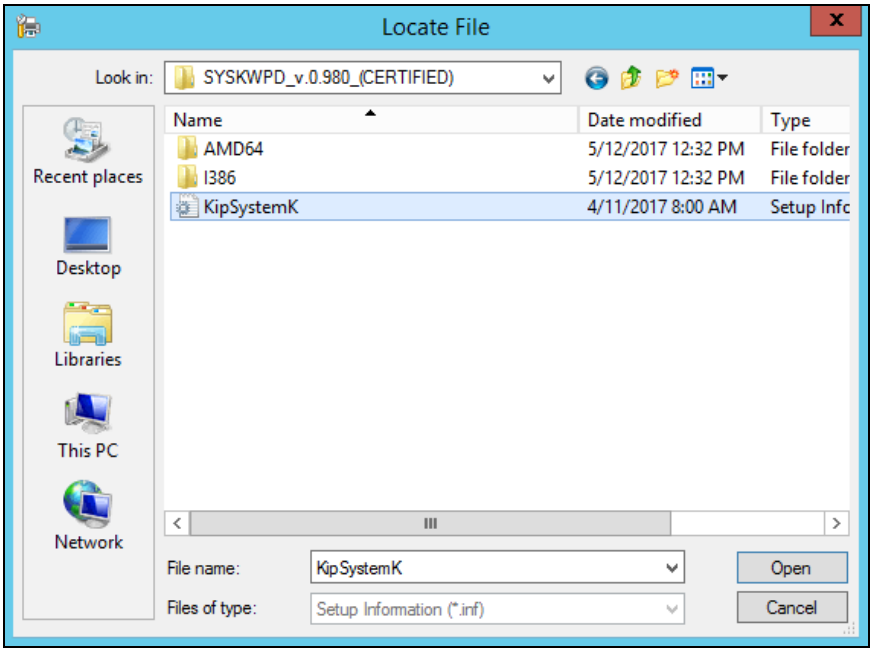
Select have disk



Browse to KipSystemK.inf and select Open



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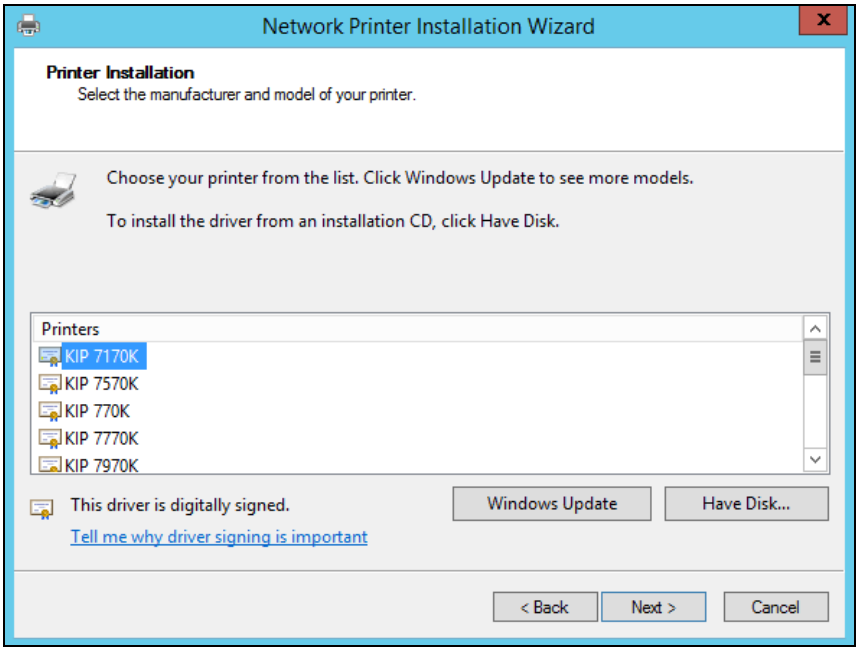
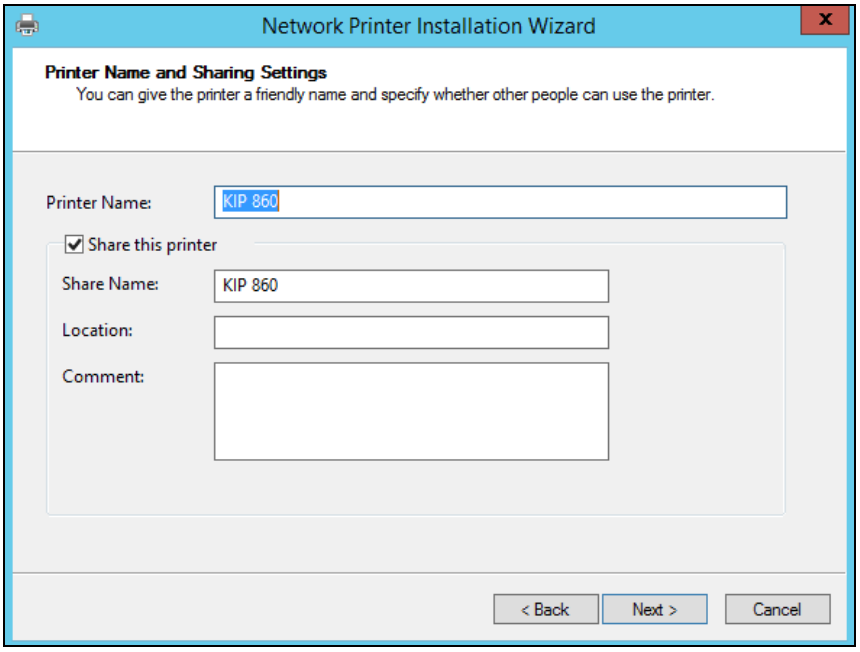
Select the printer model and click next



Enter printer name and sharing settings



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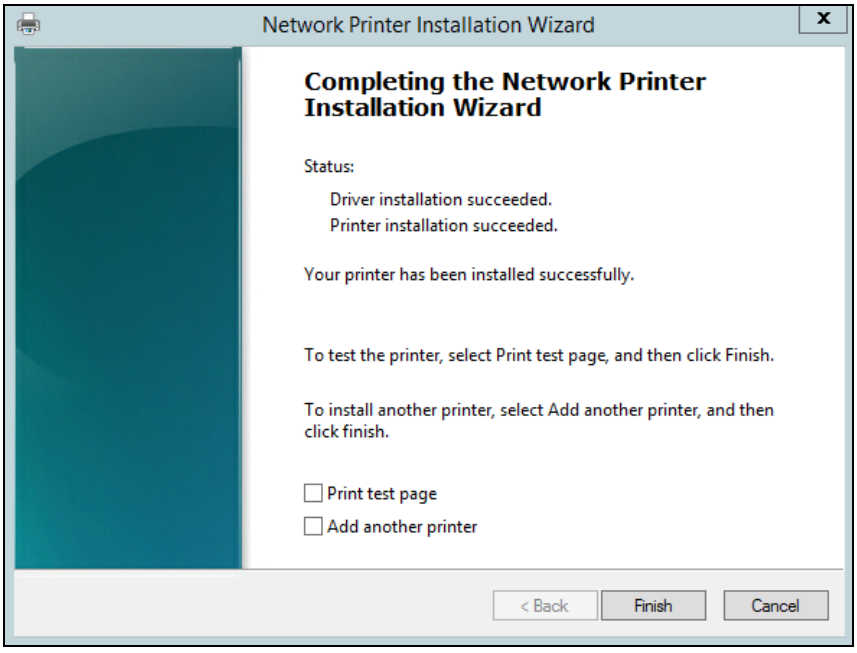
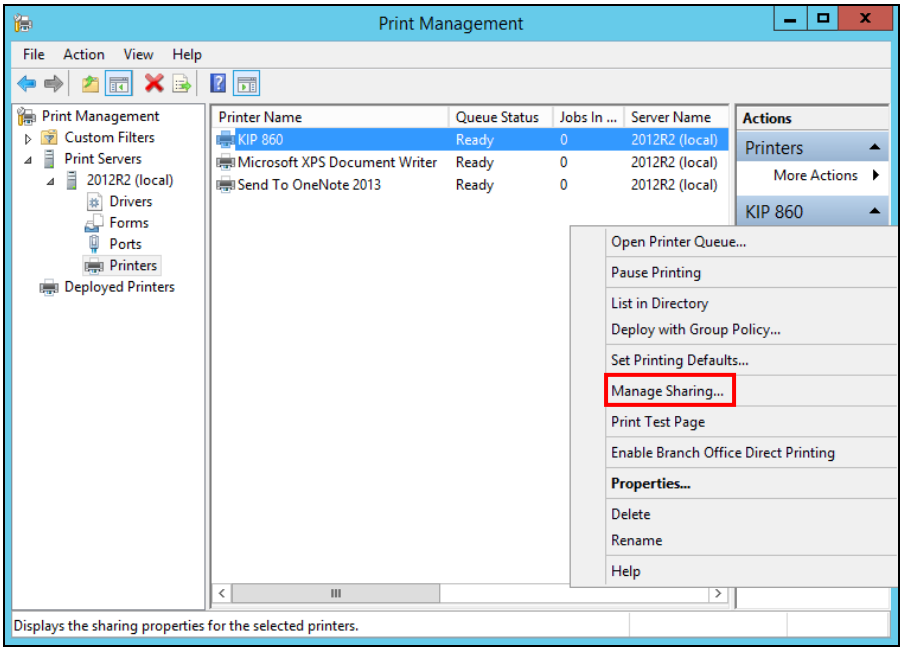
Click finish to finalize installation



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



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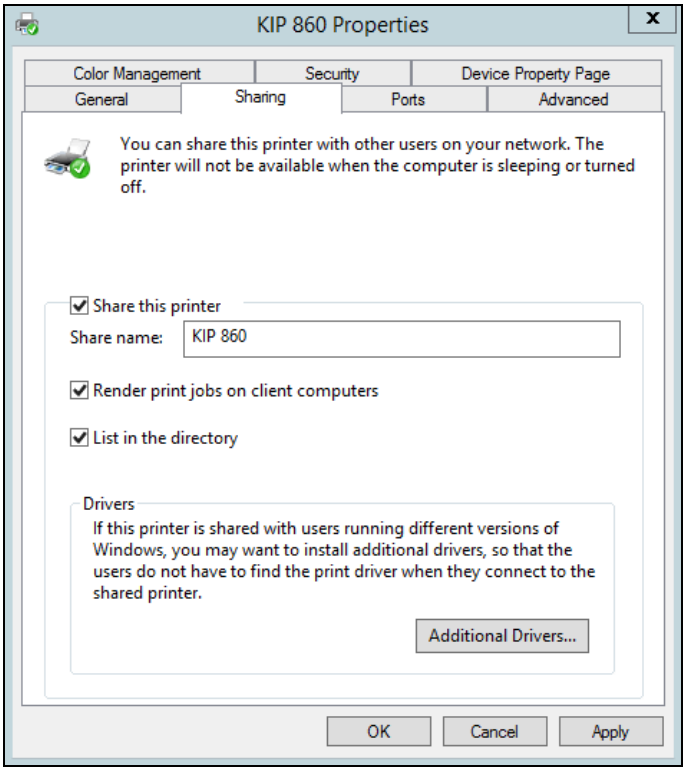

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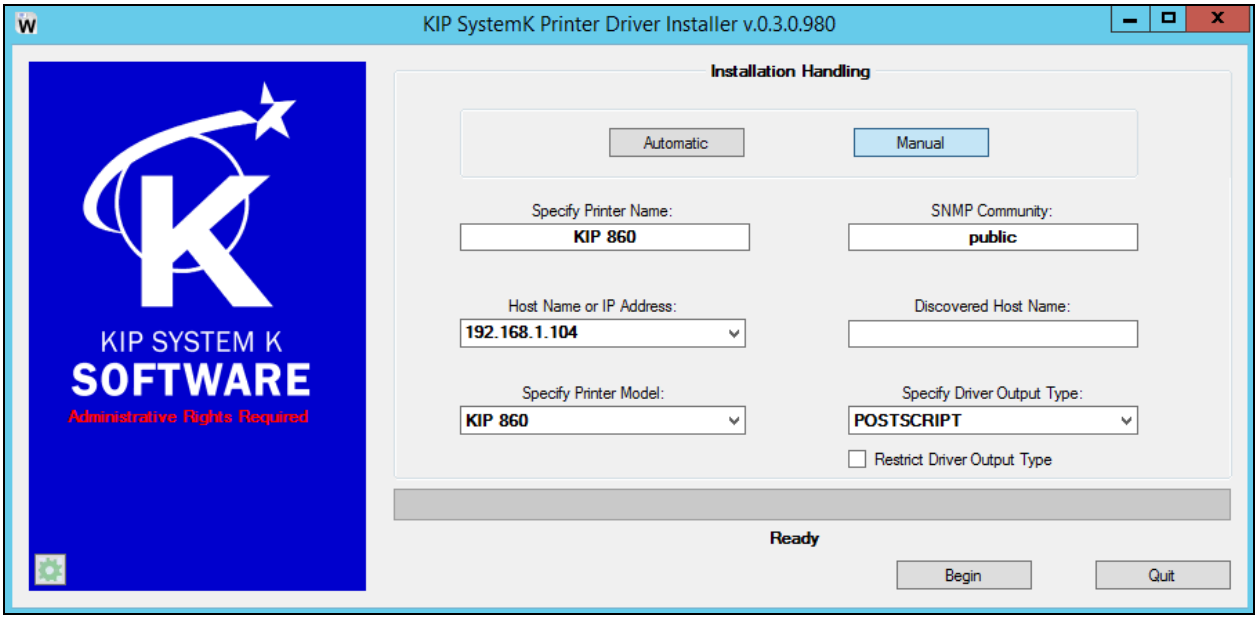
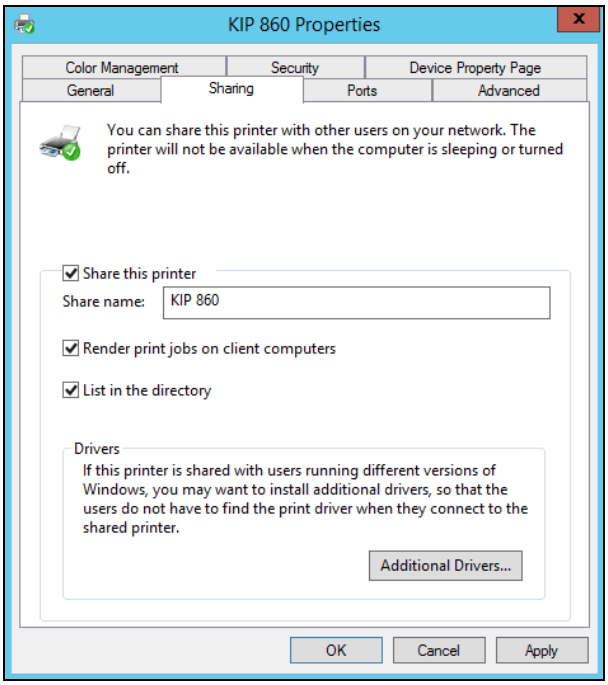
Automatic Installation

Run SYSKWPD.exe, enter your settings and click begin



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.



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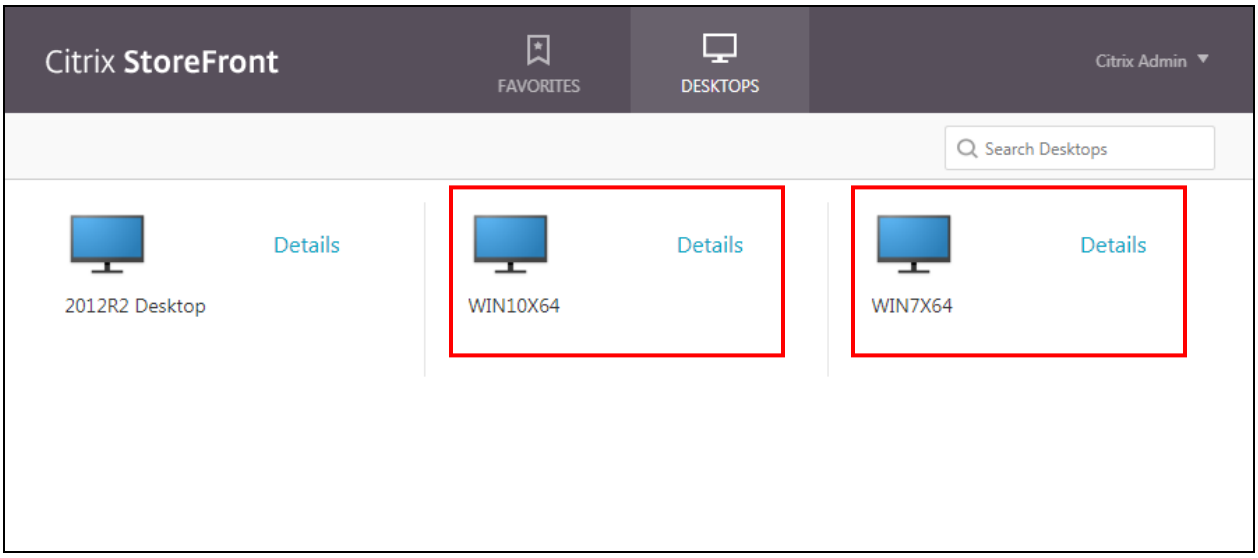
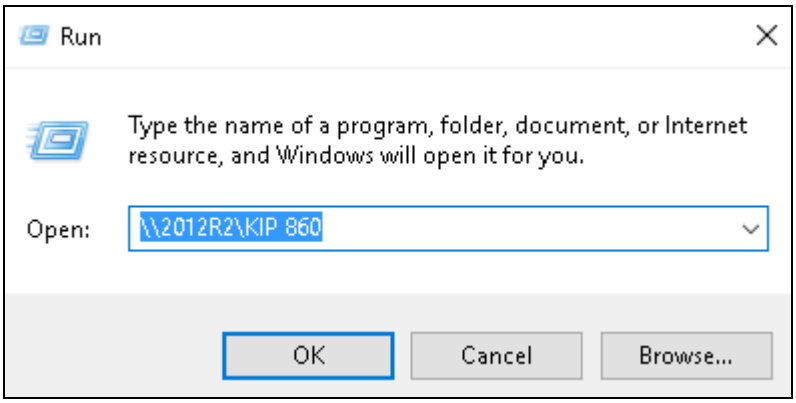
2 - Installing driver on Citrix Virtual Desktop from server share

Load Citrix Desktop VM



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.



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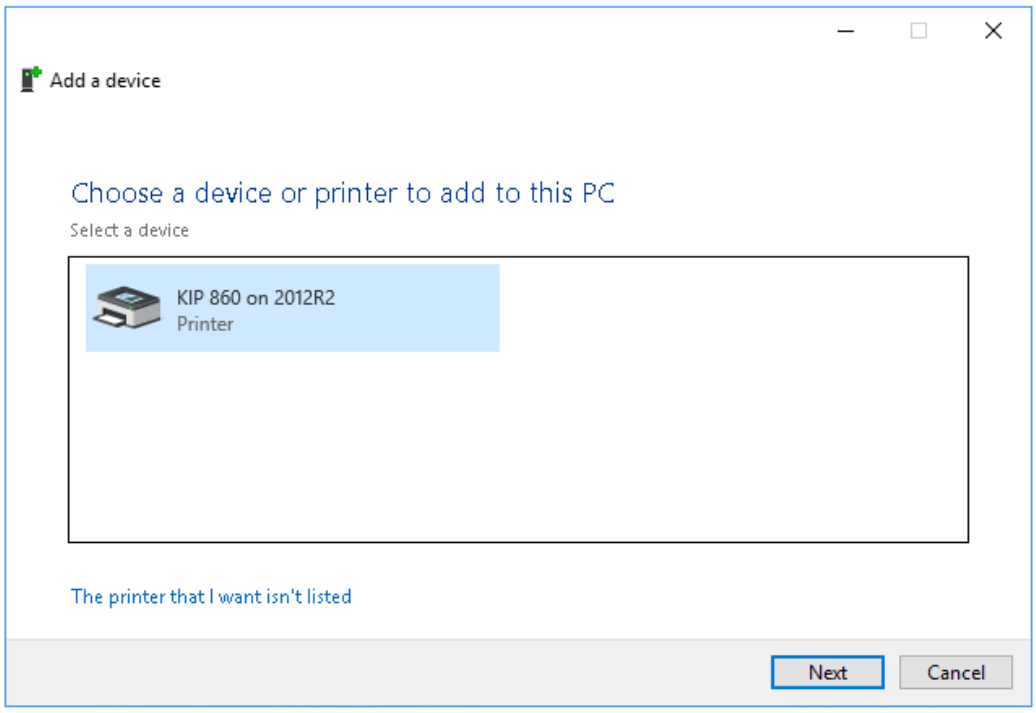
Option 2:

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.



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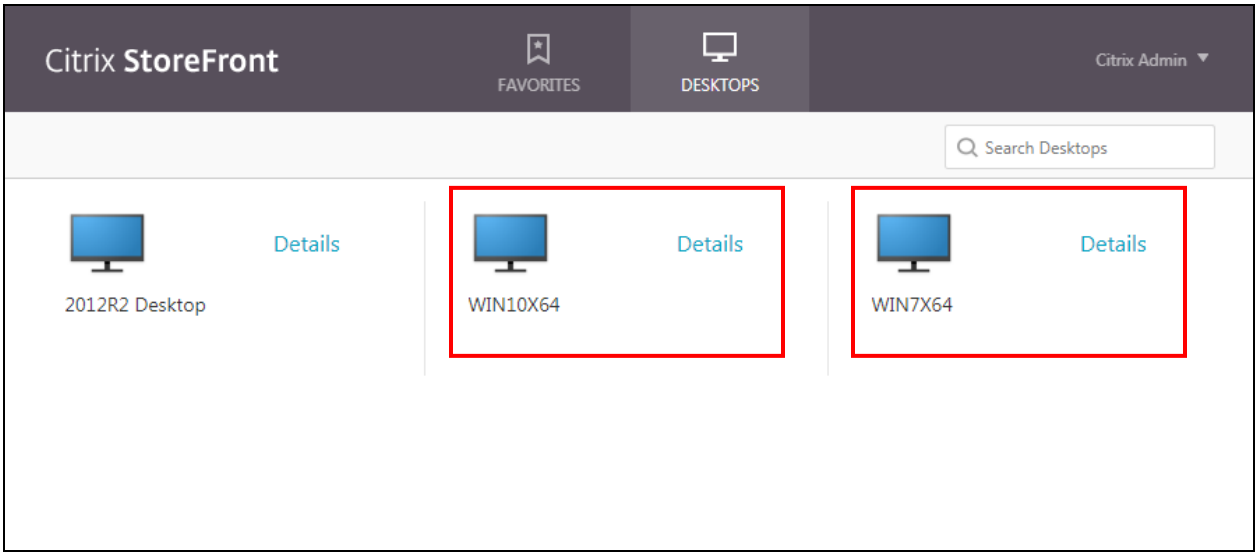
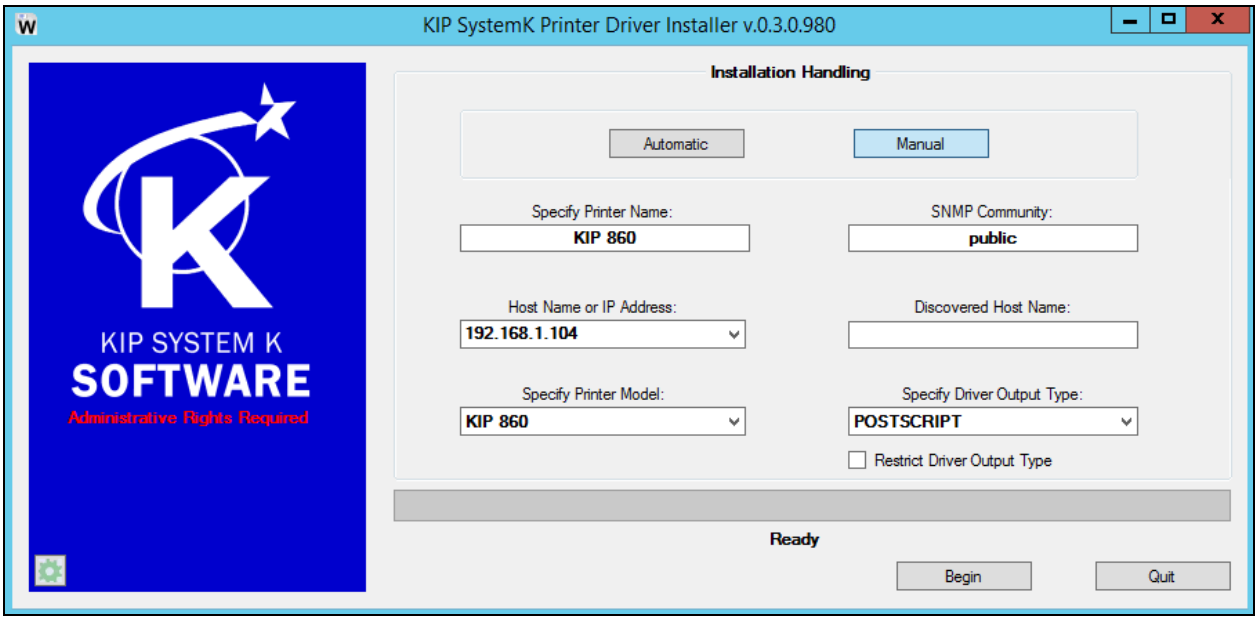
3 - Installing KIP printer driver locally on Citrix virtual desktop

Load Citrix virtual desktop (Win 7 or Win 10)



Option 1:

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



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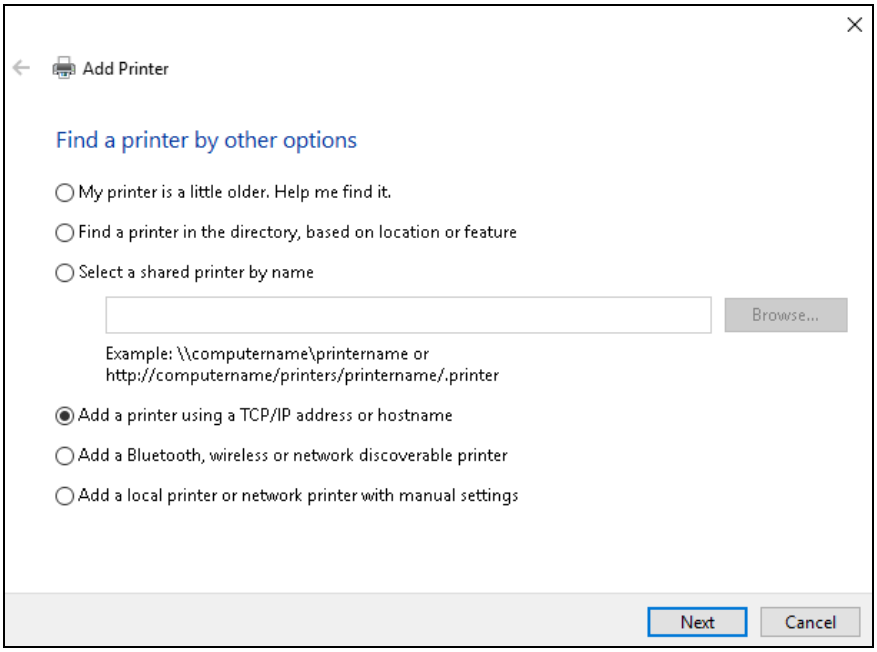
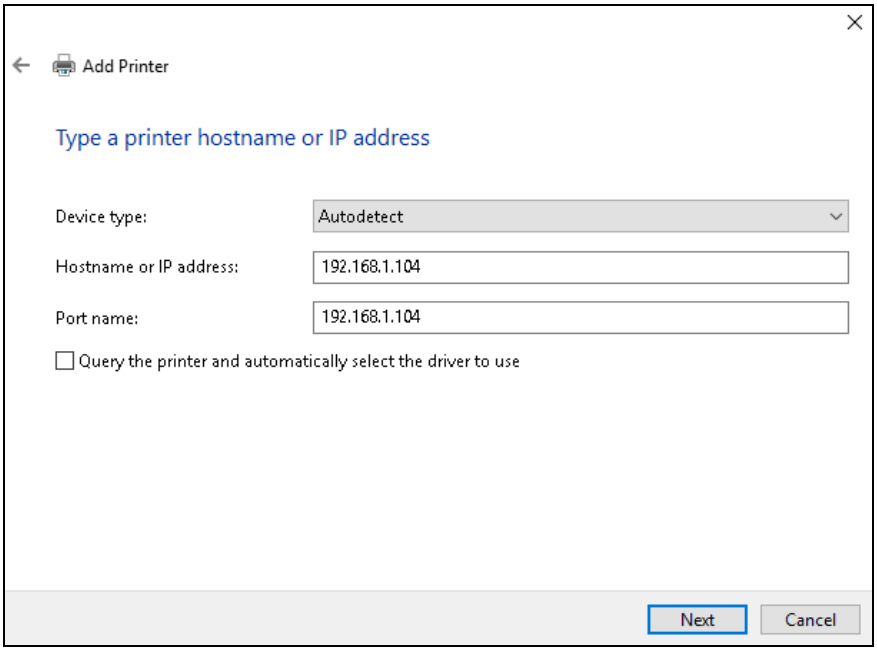
Option 2:

Install manually using kipsysk.inf

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



Enter the IP address and click next



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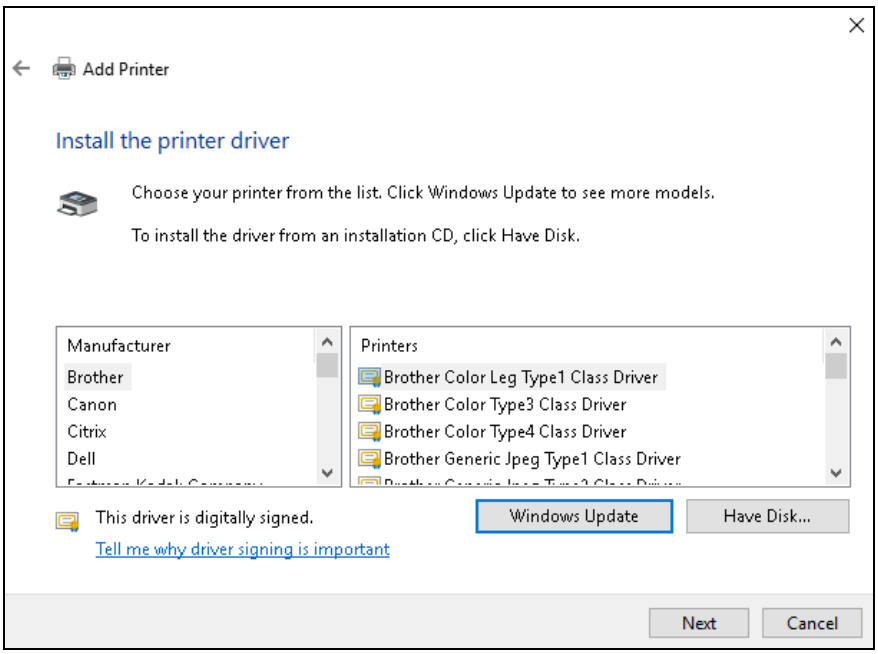
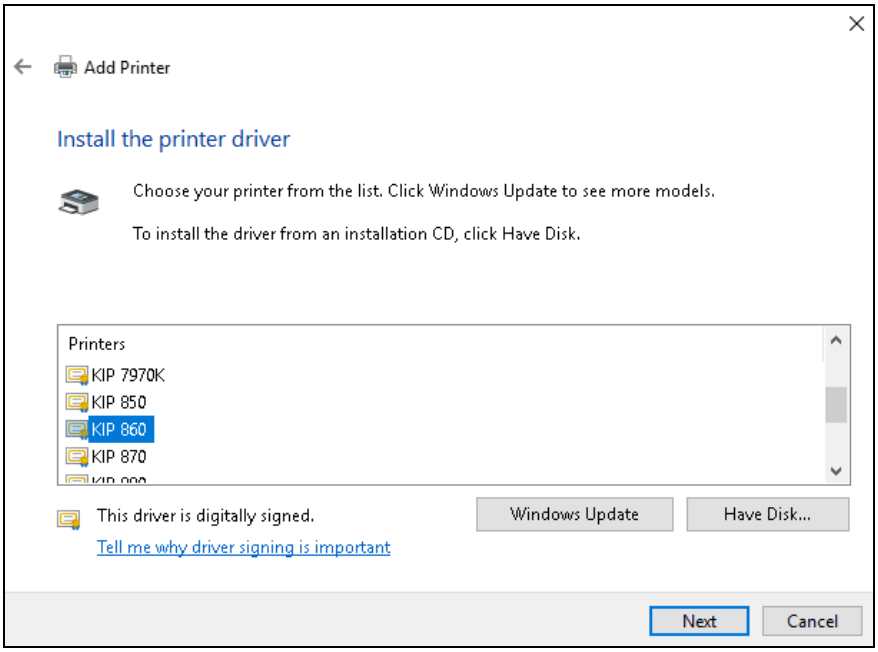
Select Have disk and browse to kipsystemk.inf



Select the printer model and click next



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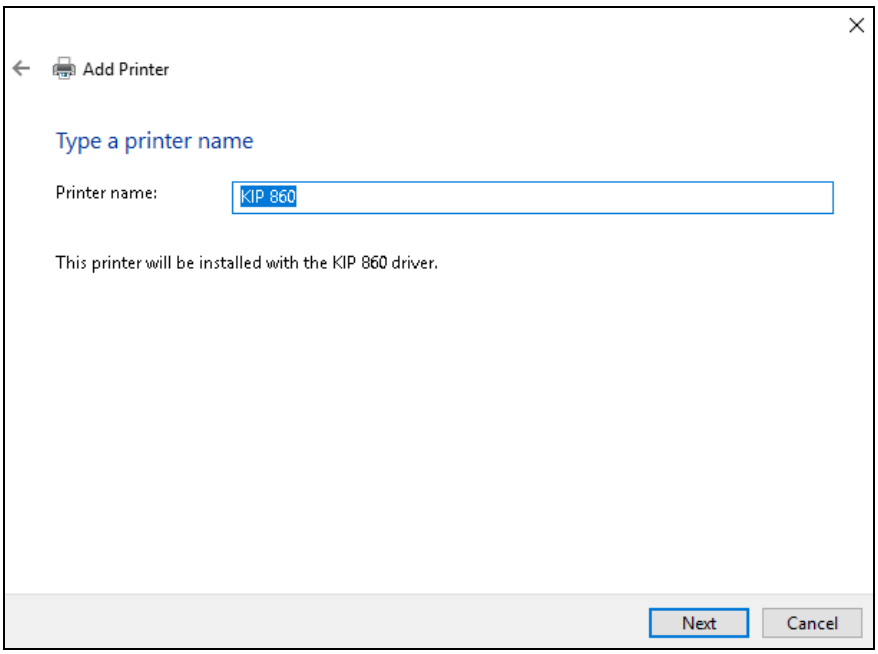
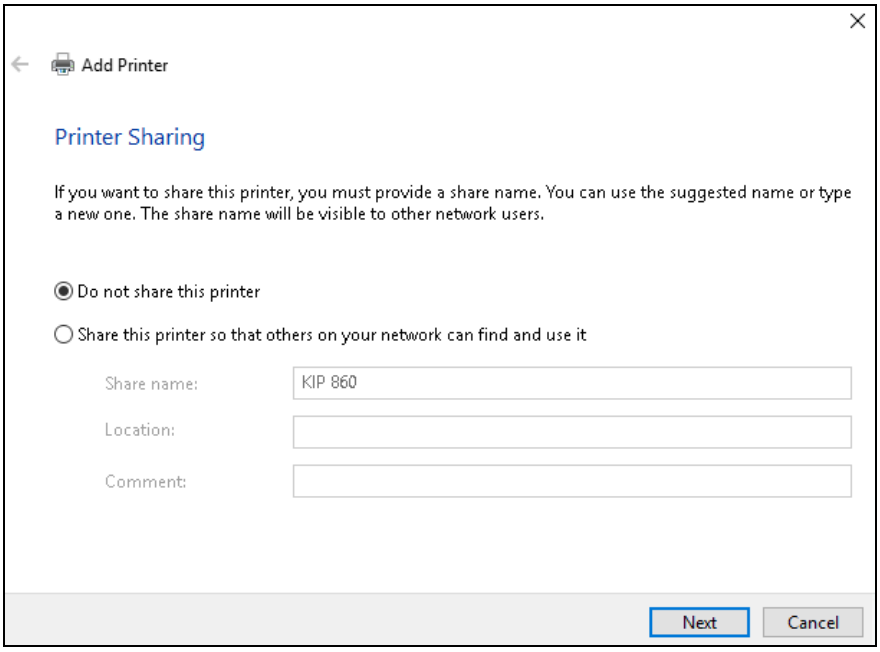
Give the printer a name and click next



Select Do not share this printer and click next.



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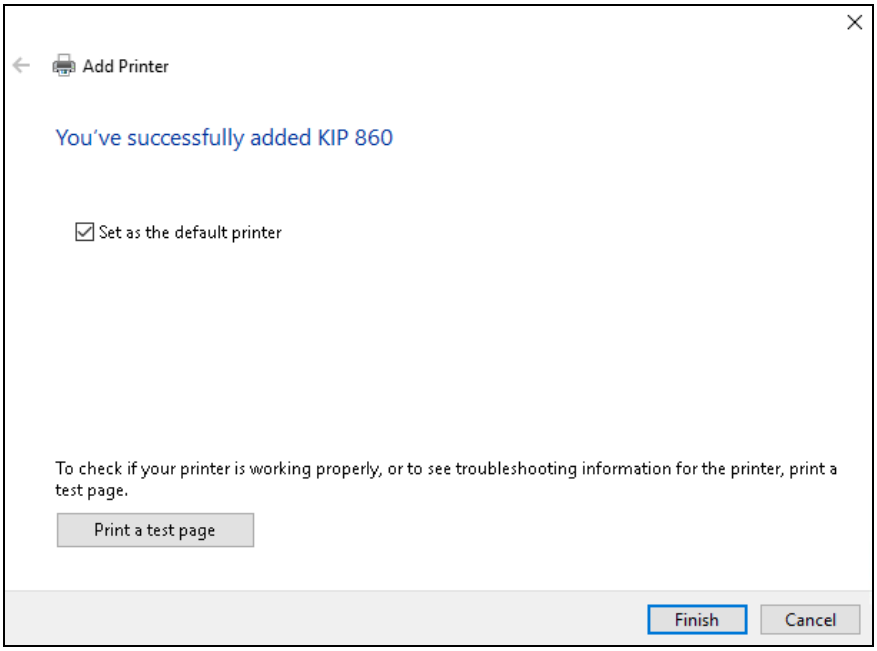
Select Finish to complete the installation



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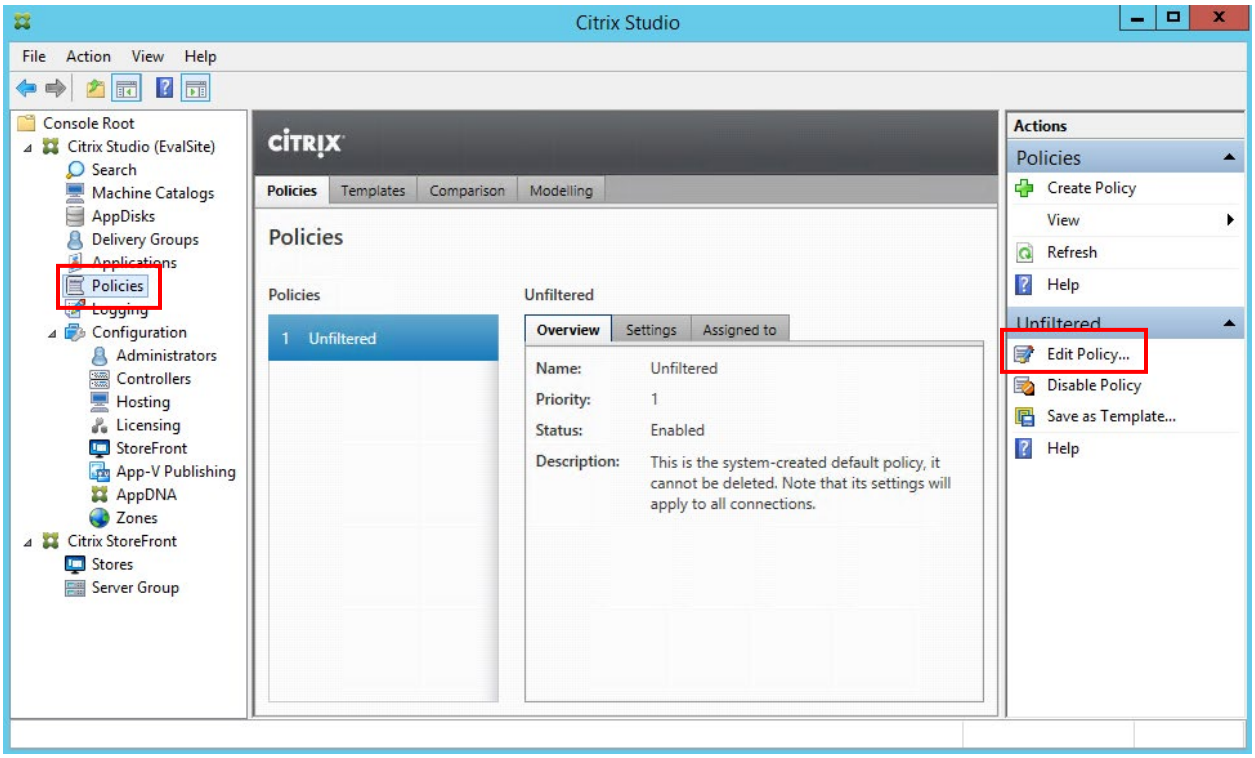
4 - Installing driver on physical PC and having printers auto-populate on virtual desktop

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.

Select Policies, then Edit Policy…



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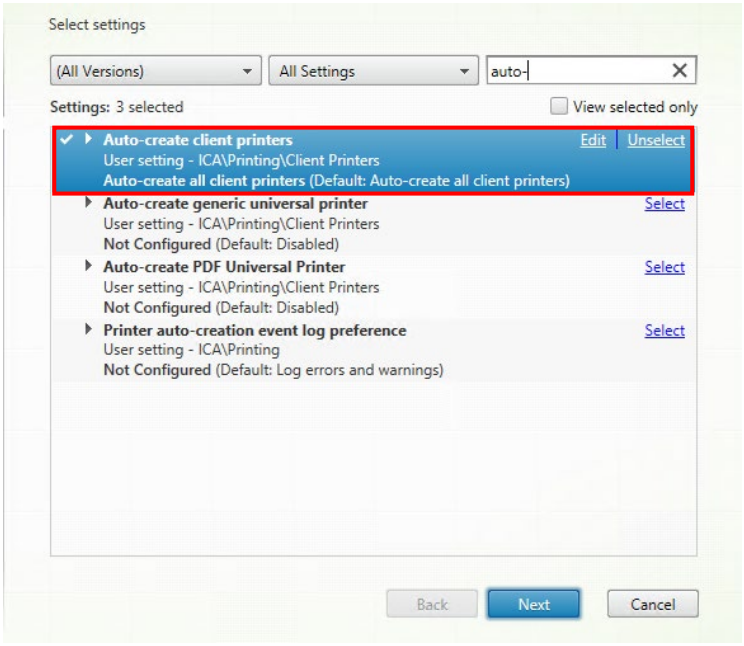
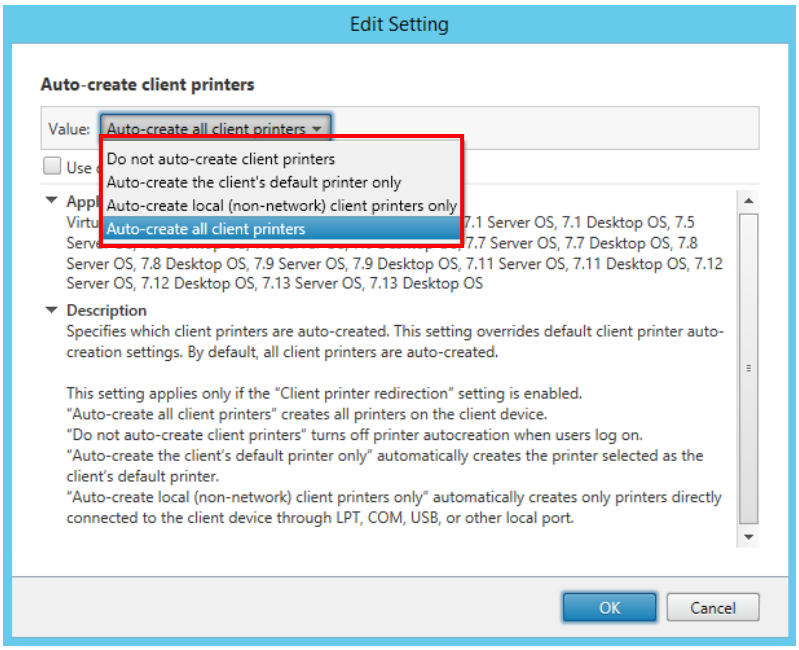
Select Auto-Create client printers and select Edit



Any of the following options can be selected



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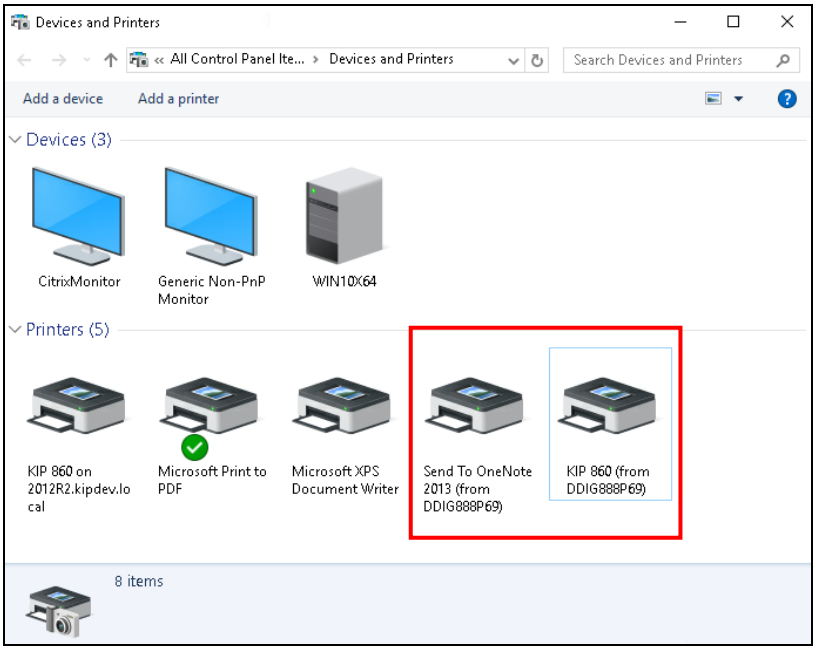
The printers have been populated from the host machine are indicated by hostname



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