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Microsoft Windows Protected Print (WPP)

Information and deployment Guide

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Revision History

Date	Version	Description	Author
01/2025	1.0	English Version	KDA Engineering
01/2025			(Mark DeSarno)

Overview

What is Microsoft Protected Print

Windows Protected Print Mode (WPP) is a secure method to print documents for Windows. WPP utilizes the Internet Printing Protocol (IPP). It's designed to reduce the risk of data breaches by utilizing Windows OS driver technology, eliminating the need for outside third-party drivers and less secure communication ports. Other benefits include:

- All manufacturers utilize the same driver
- Greatly Reduced support and management resources for printer output workflow.
- Printer Drivers updates for functionality and security are automatically applied.

Architecture:

If an enterprise decides to move all their printer fleet to WPP printing, all existing printer devices currently installed utilizing 3rd Party drivers that are not Windows Modern Print Stack compliant (WPP, MS Universal Print, Embedded OS) will be automatically removed after the device is set by an administrator to WPP and the PC is restarted.

Listed are some of the Kyocera drivers that will be removed: **KX** Driver Kyocera Universal Driver (Full and Type 4) PCL Mini Drivers **KPDL Mini Driver** Kyocera Network Fax Driver PDF Print Drivers (Except Microsoft PDF printer) Note: Kyocera TWAIN Driver is still operational for scanning.

Windows 11 accessible printer impact

Before enabling WPP *Kyocera KX & Fax Driver are selectable *Adobe PDF Print

After enabling WPP and restarting the PC

*Added Devices: WPP TA-9003i

*Added MS Universal Print TA-3554ci

*MS Print to PDF



Kyocera TASKalfa 9003i KX Ready

Kyocera TASKalfa 9003i NW-FAX Ready

Adobe PDF	Print	to	PDF
Ready			



Kyocera TASKalfa 9003i

Kyocera TASKalfa 3554ci KM9DAC98



Microsoft Print to PDF

Ready

Enable WPP On PC and Setup Printer MFP

This section explains how to set up the WWP environment and how to use its functionality.

Administrator Checks:

- The Windows 11 OS requires version 24H2 or later installed for the feature.
- Access to the Local Group Policy Editor feature.
- Ensure the print devices can directly communicate to the Windows 11 PC on the network.

Note: Windows 11 22H2 level update will not operate WPP correctly and recovery out of WPP may not be possible. Do not activate WPP if the device at 22H2

Prepare the User Windows 11 PC

In order to use WPP you need to prepare following environment.

Item	Name	Description
1	PC	PC's Windows11 version must be 24H2 or later
2	Communication	Ensure the print devices are online can directly communicate to the Windows 11 PC in the network.
3	Administration	Requires access to the Local Group Policy Editor feature

Enabling WPP

It is recommend the activation is performed by an adminstrator from the Local Group Policy Editor so end suers are not able to accidentally disable from setting screen.

To enable WPP by following the next set of steps.

Open Local Group Policy Editor



Select Administrative Templates



Select Printers



Inside of Printers Setting Tab down and select Windows Protected Print

Local Group Policy Editor				
File Action View Help				
🗢 🔿 🙍 🔂 🖬 🝸				
Jocal Computer Policy	📋 Printers			
Computer Configuration Software Settings	Configure Windows protected print	Setting	State	Comment
 > Image: Settings > Mindows Settings > Administrative Templates 	Edit policy setting	 Activate Internet printing Isolate print drivers from applications 	Not configured Not configured	No No
> 🚆 Control Panel	Requirements: At least Windows 11 Version 24H2	E List of Approved USB-connected print devices Manage processing of Queue-specific files	Not configured Not configured	No No
> 📫 Network 🛅 Printers	Description:	Manage Print Driver signature validation Always send job page count information for IPP printers	Not configured Not configured	No No
 Server Start Menu and Taskbar System 	Determines whether Windows protected print is enabled on this computer.	Configure Redirection Guard Configure RPC packet level privacy setting for incoming conn	Not configured Not configured	No No
 > Image: Windows Components Mall Settings 	By default, Windows protected print is not enabled and there are not any	Configure RPC commettor settings Configure RPC over TCP port	Not configured Not configured	No No
 Viser Configuration Software Settings Windows Settings 	restrictions on the print drivers that can be installed or print functionality.	Configure Windows protected print	Not configured Not configured	No No

Select Enable then Apply and OK to Register the change.

See Configure Windo	ows protected print		\times
📷 Configure Winde	ows protected print	Previous Setting Next Setting	
 Not Configured Enabled 	Comment:		•
O Disabled	Supported on:	At least Windows 11 Version 24H2	•
Options:		Help:	
		Determines whether Windows protected print is enabled on this computer. By default, Windows protected print is not enabled and there as not any restrictions on the print drivers that can be installed or print functionality. If you enable this setting, the computer will operate in Windows protected print mode which only allows printing to printers tha support a subset of inbox Windows print drivers. If you disable this setting or do not configure it, there are not a restrictions on the print drivers that can be installed or print functionality. For more information, please see [insert link to web page with WPP info]	re s t ny
		OK Cancel App	əly

After selecting OK you will see the status change to Enabled

The Windows 11 PC requires a restart before adding print devices or errors will occur!



The Windows 11 PC requires a restart before adding print devices or errors will occur!

Confirming Windows Protected Print Mode is enabled

After you have restarted your Windows 11 PC, to ensure WPP was activated unders settings go to Bluetooth and Devices the select Printers and Scanners

Blu	etooth & devid	ces		
	 CT002 Not connected Connect	Add device		
			View more devices	
*	Bluetooth Discoverable as "PF4VE8M0"		On 🧲	D
Ē	Devices Mouse, keyboard, pen, audio,	displays and docks, other devices	Add device	>
G	Printers & scanners Preferences, troubleshoot			>

You will see Windows Protected Print Mode

(Since we had WPP setup through Logical Group Policies, user will not be able to disable the mode from this screen to ensure they are WPP compliant)

Printer preferences				
Windows protected print mode This feature helps ensure the latest security standard for printer software. Turning this on may limit the availability of some printers using an older default security standard.	Turn Off			
Let Windows manage my default printer	Off			
Download drivers and device software over metered connections Data charges may apply	Off			

Setup the Printer/MFP

Ensure at this time that print devices being configured for WPP are active on the network with an on-line status and can communicate with the PC's being configured.

(Can be accomplished from the Command Prompt, Ping the printers that will be set-up)

Under "Setting" select Bluetooth & Devices then Printers and Scanners next add devices.



WPP will scan the network for Print and scan device to add to the Windows 11 PC.

Bluetooth & devices > Printers & scanners	
Finter Kyocera ECOSYS PA2600cwx	Add device
Ryocera TASKalfa 3252ci Printer	Add device
Kyocera ECOSYS M3860idnf Printer	Add device
Kyocera ECOSYS M6635cidn Printer	Add device
Kyocera ECOSYS M8130cidn Printer	Add device
Kyocera TASKalfa 358ci Printer	Add device
Kyocera TASKalfa 6053ci Printer	Add device
Kyocera TASKalfa 3554ci Printer	Add device
Kyocera TASKalfa 9003i Printer	Add device
Kyocera ECOSYS MA2600cwfx Printer	Add device
Kyocera TASKalfa 8001i Printer	Add device

Windows will automatically create the Printer, build the driver and configure the hardware options for the device. The Print Device will appear as the model and host name

Bluetooth & devices > Printers & scanners				
Add a printer or scanner	Add device ^			
E Kyocera:TASKalfa 9003i:KM891107				

	Kyocera TASKalfa 3554ci KM9DAC98 Delete: 1 document waiting	Universal Print Driver (Not required showing it is supported)
	Kyocera TASKalfa 9003i Ready	WPP Printer
	Microsoft Print to PDF Ready	MS PDF Print

WPP Windows 11 User Graphics interface for Printer.

Default initial screen offerings with Advanced Key output options.

🖶 Kyocera TASKalfa 9003i Document Properties X	📾 Kyocera TASKalfa 9003i Document Properties	×
Layout Paper/Quality	Layout Paper/Quality	
Orientation: Print on Both Sides: Front to Back Side 1 Side 1 Side 2 Side 2	Tray Selection Paper Source: Tray 1 Media: Auto select	▼ ▼
Advanced	Adva	nced
OK Cancel	ОК	Cancel

Advanced features offers:

- 29 different paper sizes
- All Cassette options
- Copy Counts to 9999
- Color and B&W Print Modes
- Finishing Features
 - o Stapling/Hole Punch
 - Binding (Booklet)
 - o Output Trays
 - \circ Scaling

Hicrosoft IPP Class Driver Advanced Do	ocument Setting	S
🖶 🗟 Paper/Output		
Paper Size: Tabloid	~	
Copy Count: <u>1 Copy</u>		
😑 🕞 Document Options		
Color Printing Mode: Grayscale		
🖨 🐔 Printer Features		
Output Bin: Tray 3		
Stapling: Left edge (2 staples)	2	
Document binding: Edge stitch	h (auto)	
Scaling: <u>Fit</u>		

Clients utilizing WPP will require less management of the print system workflow management because of the integration of the printer profiles inside Windows 11.



About KYOCERA Document Solutions America, Inc.

Kyocera Document Solutions America, Inc.

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Kyocera Document Solutions Inc. is a group company of Kyocera Corporation (Kyocera), a leading supplier of semiconductor packages, industrial and automotive components, semiconductor packages, electronic devices, smart energy systems, printers, copiers, and mobile phones. During the year ended March 31, 2023, the Kyocera Group's consolidated sales revenue totalled 2 trillion yen (approx. US\$15.1 billion). Kyocera is ranked #672 on Forbes magazine's 2023 "Global 2000" list of the world's largest publicly traded companies, and has been named by The Wall Street Journal among "The World's 100 Most Sustainably Managed Companies."

[For MF communications, please consult with your internal risk or legal teams as to what additional language is appropriate.]