# Use Standard TCP/IP port with LPR to send a different username

Normally when the PDAgent's LPD service receives a job, it uses the username contained in the LPR header to authenticate the user. Most operating systems will insert the user's account name into this field. However, there may be situations where you would want to authenticate the job as a different user. Perhaps a user has a device that is not part of the domain. Their local user account could be just 'User' and you wouldn't want jobs to be authenticated at the server as 'User'.

Instead of renaming their account on their PC, you could create a local print queue with an LPR port that will send jobs to the PDAgent with a different username. You wouldn't need to install the PDAgent on the local PC (unless they are using billing popups) if the queue will be sending jobs to a PDAgent on another machine (i.e. the print server). This would also work even if you aren't using a print server at all. In this case, the PDAgent would need to be installed locally.

## Ensure the LPD service is enabled on the PDAgent

Firstly, we must ensure the LPD service is enabled on the PDAgent that will be receiving the jobs (i.e. the print server, or the local PC in serverless environments):

In Resource Manager, click **PDAgents** and then double click the PDAgent on the right. Click the **Print services** tab. Ensure the **Enable LPD** checkbox is ticked and change the **LPD Job Owner** settings to reflect the example below. Then click **OK + Refresh**.

PDAgent - NICOLAWIN	N11VM — 🗆	×
General Print services C	lient app Devices PDServers Print Queues	
IPP & LPD services		
Enable IPP	SSL port: 9633 🜩 Non SSL: 631 🜩	
Enable LPD	Port: 515 🜩	
LPD Job owner:	queuename{usemame} in LPR queue $\qquad \qquad \lor$	
Ithen try:	LPR usemame $\vee$	
then try:	~ ~	
Jobs that cannot be assi	igned to a queue from IPP/LPD info: e that is matched to device	
Use this queue:	AUTO-DEPLOYdept ~	
🛃 Use Windows defa	ault spool folder	
Custom folder:		
Print job user authentication	on	
Use:	Require authentication from PDAgent Client $\sim$	
	Extract job owner username from job	
Replace job properties for	r waiting jobs visible in Windows queues	
Document name:	Secured document ID=%JobID%	
Job status:	%WaitReason%	
Job owner:	%UserFullName%	
OK + Refresh	OK Cancel	1





### Ensure a print queue exists that is matched to a device

When the PDAgent receives a job from LPR, it needs to know which print queue it should use for the job's processing (i.e. the device settings for the queue's Matched Device and whether to send to the device's main network adapter or the Fiery adapter if it has one). First it will try to match a queue using the Queue field it receives from LPR. If it can't match a queue it will simply use the first queue it can find that is matched to a device.

#### Ensure a record for the user exists

In this example, we have a user with their own Windows device named John Doe. We can create a user record in Resource Manager by navigating to **User Management**, **Users** and clicking the **Add** button. We fill out the user settings and allocate them a PIN number by clicking the **Auto** button. Note that we've set their **Logon code** to be **JohnDoe** without spaces. This will be used when we create the print queue on their PC.

🔏 User - John Doe		- 🗆 ×
General Billing Account A	ccess Software Access Rule	les Tel Auth & Importing
Full name:	John Doe	
Login name:	JohnDoe	
Controller ID (PIN):	92007 Auto	
Card number:	JohnDoe	42
Email address:	johndoe@acme.com	
Department:	Developers ~	Load Delete
Home folder:		
User Account Balance Use	er Account Variable Pricing	
User account code:	JohnDoe	
Current Balance (R):	0,00	
Enforce minimum b	alance	
Minimum Balance (R):	0,00	
	Add Transaction	
		OK Cancel

#### Create the print queue on the user's device

Now we can go ahead and create the queue on their device.

In Windows 10, go to the Settings app, Devices then Printers and scanners. Click Add a printer or scanner.





It will begin searching for printers on the network. Once the search completes, click **The printer that I want isn't listed**.

#### The printer that I want isn't listed

Now the Add Printer dialog will open. Choose Add a local printer or network printer with manual settings and click Next.

		×
-	🖶 Add Printer	
	Find a printer by other options	
	○ My p <u>r</u> inter is a little older. Help me find it.	
	○ <u>S</u> elect a shared printer by name	
	B <u>r</u> owse	
	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	
I	Add a local printer or network printer with manual settings	
ľ		
	Next Cance	ł

In the **Choose a printer port** form, select the **Create a new port** option, and choose **Standard TCP/IP Port**. Then click **Next**.



		×
🔶 🖷 Add Printer		
Choose a printer port A printer port is a type of connec	tion that allows your computer to exchange information with a printer.	
○ <u>U</u> se an existing port:	LPT1: (Printer Port)	
◉ <u>C</u> reate a new port:		
Type of port:	Standard TCP/IP Port ~	
	<u>N</u> ext Cancel	

In the next form, enter the IP address of the **server** if using a print server (*not the IP of the printer*). In a serverless environment, with the PDAgent installed locally, enter 127.0.0.1.

			×
🔶 🖶 Ad	dd Printer		
Туре	e a printer hostname c	or IP address	
Devic	e <u>t</u> ype:	TCP/IP Device	
Hostr	name or IP <u>a</u> ddress:	192.168.0.83	]
<u>P</u> ort r	name:	192.168.0.83	
	iery the printer and automat	ically select the driver to use	
		<u>N</u> ext Cancel	

Now Windows will try to detect the port settings. Because the IP we entered is not an actual printer, we will need to wait until it times out before we can manually enter the correct settings.

When the next form is displayed, choose **Custom** and click the **Settings** button.



←	🖶 Add Printer	×
	Additional port information required	
	The device is not found on the network. Be sure that:	
	<ol> <li>The device is turned on.</li> <li>The network is connected.</li> <li>The device is properly configured.</li> <li>The address on the previous page is correct.</li> <li>If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.</li> </ol>	
	Device Type	
	O <u>S</u> tandard Generic Network Card ✓	
	<u>● C</u> ustom <u>Settings</u>	
	<u>N</u> ext Cance	

In the **Configure Standard TCP/IP Port Monitor** form, we change the following settings:

- 1. Set the **Protocol** option to LPR.
- 2. Set the **Queue Name** to the name of the queue on the PDAgent followed by the user logon code in curly brackets {}. Note that no spaces are allowed. In our case, the queue on the server is Upstairs Printer so we put an underscore in for the space: **Upstairs\_Printer{JohnDoe}**.
- 3. Untick the LPR Byte Counting Enabled checkbox.
- 4. Untick the **SNMP Status Enabled** checkbox.

Configure Standard TCP/IP Po	rt Monito	r	×
Port Settings			
<u>P</u> ort Name:	[	192.168.0.83	
Printer Name or IP <u>A</u> ddress	: [	192.168.0.83 🗲 PDAgent address	
Protocol O <u>R</u> aw		• PR	
Raw Settings			
Port <u>N</u> umber:	9100		
LPR Settings			
<u>O</u> ueue Name:	Upstairs	_Printer{JohnDoe}	
LPR Byte Counting En	abled		
NMP Status Enabled	Queue i on serve	name User logon code er	
<u>C</u> ommunity Name:	public		
SNMP <u>D</u> evice Index:	1		
		OK Cancel	





Click **OK** and then **Next**. On the next form, choose the correct driver or click **Have disk** button to choose the driver files you have saved. Click **Next** and enter a name for the printer.

		×
~	🖶 Add Printer	
	Type a printer name	
	Printer name: Upstairs Printer	
	This printer will be installed with the KONICA MINOLTA Universal PS v3.6 driver.	
	Next Cancel	

Then click Next to install the printer. On the last form, choose Do not share this printer and click Next.

		×
~	🖶 Add Printer	
	Printer Sharing	
	If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.	e
[	O Do not share this printer	
	$\bigcirc$ Share this printer so that others on your network can find and use it	
	S <u>h</u> are name:	
	Location:	
	<u>C</u> omment:	
	<u>N</u> ext Cancel	

Now click Finish on the last form (choosing Set as the default printer if you like).



		×
÷	🖶 Add Printer	
	You've successfully added Upstairs Printer	
	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.	
	<u>P</u> rint a test page	
	<u> </u>	

### Recommended config setting for Konica Minolta drivers

Now that the printer has been created, there is a config setting that we recommend for Konica Minolta drivers. Without changing this setting, the user may notice a delay when printing from certain applications. It might appear that the application has frozen for a few seconds after they complete the print workflow. On Konica Minolta drivers, this happens because the driver is attempting to do a status check of the physical printer using the port information to connect. It will do this even if the Auto obtain settings is disabled.

To remedy this problem, open the **Printer Properties** for the queue, click the **Configure** tab and click the **Obtain Settings** button.





	Sharing	Ports	Advanced	Color Managemer	nt Security	Device Settings	Configure Sett	tings	
	Model:	KONICA	MINOLTA C	650		Select Mod	el	Dynamic	Mode
					Dev	i <u>c</u> e Option			
					Pap	er Source Unit	None		•
					Pape	er Source Unit(LC	T) None		
				-	Finis	her	None		
					Pune	ch Unit	None		
			and the second second		Z-Fo	ld Unit	None		
					Post	Inserter	None		
				-	Sade	dle Kit	None		
			-		Stora	age	Installed		
					Secu	ure Print Only	Uff Hine De Net Deler	Common Drive	
				_	Sect	unity Document Se		ase secure Finit	¥
						Setting			
						None			~
·						1010			
Pap	per Tray Ir	n <u>f</u> ormation	(						
Т	ray	Size	Direc	ction Pape	er Type				^
	Tray1	A4	ີ 🖵 ປ	.EF Plain	Paper				
		A4	, U 💭	.EF Plain	Paper				
	Tray2			FF Plain					
	Tray2 Tray3	A4	L 4		1 Paper				
	Tray2 Tray3 Tray4	A4 A4		.EF Plain	Paper Paper				~
	Tray2 Tray3 Tray4 <u>P</u> aper Tr	A4 A4 ay Setting	ער ע	EF Plain Set Paper Name by	Paper Paper / User				*
	Tray2 Tray3 Tray4 <u>P</u> aper Tr	A4 A4 ray Setting	µ ∪ ₽ ∪ s	EF Plain Set Paper Name by ]Encryption Passph	n Paper n Paper y User nrase	Software	• Tools		~
	Tray2 Tray3 Tray4 Paper Tr	A4 A4 ray Setting rice Inform	Is	EF Plain Set Paper Name by	n Paper n Paper y User nrase	Software Web C	Tools		~
	Tray2 Tray3 Tray4 Paper Tr Obtain Dev	A4 A4 ray Setting vice Infom	js	EF Plain Set Paper Name by Encryption Passph	y User	Software Web C	e Tools onnection		~

In the Obtain Settings form, untick the **Auto** checkbox. Choose the **Specify IP Address or Printer Name** option. Then enter the IP of the printer in the box. This can be the IP address of any printer that is online most of the time.

Obtain Settings	×
☐ <u>A</u> uto Destination Settings ○ Device which <u>C</u> onnect with Printer Port	
Specify IP Address or Printer Name	
SNMP IP of any online printe	r
Enter Password to acquire Device Information	
Use <u>P</u> roxy Server	
OK Cancel <u>D</u> efault <u>H</u> elp	

Now click **OK** and **OK** again to close the Printer Properties.





### Perform a test print

Send a test print to the queue to confirm that it is working as it should. If the device is configured for Secure Release, check that the job is available for release:

- Open Resource Manager and click PDAgents.
- Right click the PDAgent on the right and choose View Print Jobs.

😨 Resource Manager	-
File View Tools Help	
Blue Swift DC     PD Servers     PD Agents     Print Management     Shared Devices     Konica Minolta Integrated     Exmark Integrated     Sersonal Printers     Personal Printers     Print Queue Management     Pricing Schedules     Paper Sizes     Telephone Management	Alias       Last heartbeat         Image: Contract of the settings of the settings of the settings of the setting of the

• Ensure the user's job appears in the list under the correct username:

P Waiting print jobs on PDAgent: BLUESWIFTDC (total: 1)					
Document	User	Status	Waiting	Device	
Test Page	JOHNDOE	File - Queued	Waiting for Secure Release.	Upstairs Printer	

Ask the user to release the job at the printer to confirm all is working as it should.

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