

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 **Services** tab. Ensure the **Enable LPD Service** checkbox is ticked. In the **User authentication field** frame, change the settings to reflect the example below. Then click **OK + Refresh**.

The screenshot shows the configuration window for the PDAgent service. The 'Services' tab is active. The 'Enable LPD Server' checkbox is checked. The 'LPD TCP port' is set to 515. The 'User authentication field' section is highlighted with a red box, showing 'First, try:' set to 'extract usexname between curly braces in LPR c' and 'then try:' checked and set to 'LPR User Name'. The 'OK + Refresh' button is also highlighted with a red box.

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

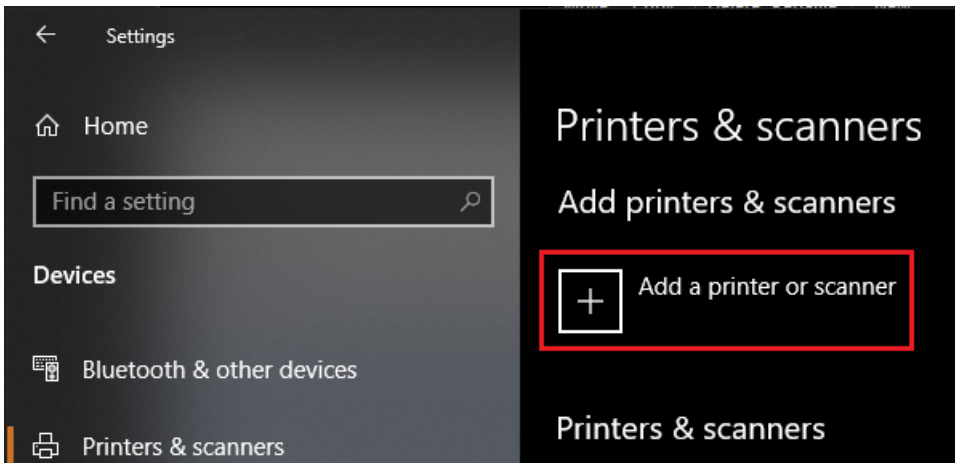
In this example, we have a user with their own Windows device named John Doe. We can create a user record in Resource Manager by navigating to **User Management, Users** and clicking the **Add** button. We fill out the user settings and allocate them a PIN number by clicking the **Auto** button. Note 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.

The screenshot shows the 'User - John Doe' configuration window. The 'Logon code' field is highlighted with a red box and contains the text 'JohnDoe'. Other fields include 'Full name: John Doe', 'Controller ID (PIN): 92007' with an 'Auto' button, 'Card number: JohnDoe', 'Email address: johndoe@acme.com', and 'Department: Developers'. Below the main form, the 'User Account Balance' section is visible, with 'User account code: JohnDoe', 'Current Balance (\$): 0.00', and 'Minimum Balance (\$): 0.00'. The 'Add Transaction' button is at the bottom of this section. The main window has 'OK' and 'Cancel' buttons at the bottom right.

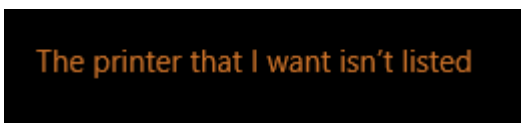
Create the print queue on the user's device

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

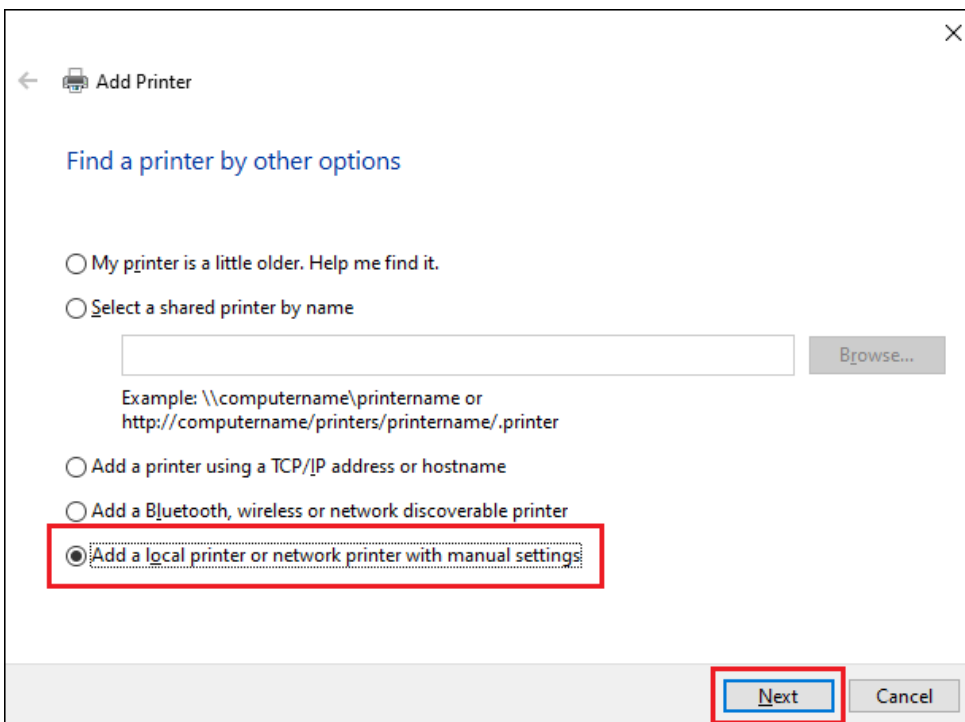
In Windows 10, go to the **Settings** app, **Devices** then **Printers and scanners**. Click **Add a printer or scanner**.



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



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



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 connection that allows your computer to exchange information with a printer.

Use an existing port: LPT1: (Printer Port) ▼

Create a new port: Type of port: Standard TCP/IP Port ▼

Next 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.

← Add Printer

Type a printer hostname or IP address

Device type: TCP/IP Device ▼

Hostname or IP address: 192.168.0.83 ← IP of machine running PDAgent

Port name: 192.168.0.83

Query the printer and automatically select the driver to use

Next 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:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

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.

Device Type

Standard Generic Network Card

Custom **Settings..**

Next Cancel

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 Port Monitor

Port Settings

Port Name: 192.168.0.83

Printer Name or IP Address: 192.168.0.83 ← PDAgent address

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name: Upstairs_Printer{JohnDoe}

LPR Byte Counting Enabled

SNMP Status Enabled

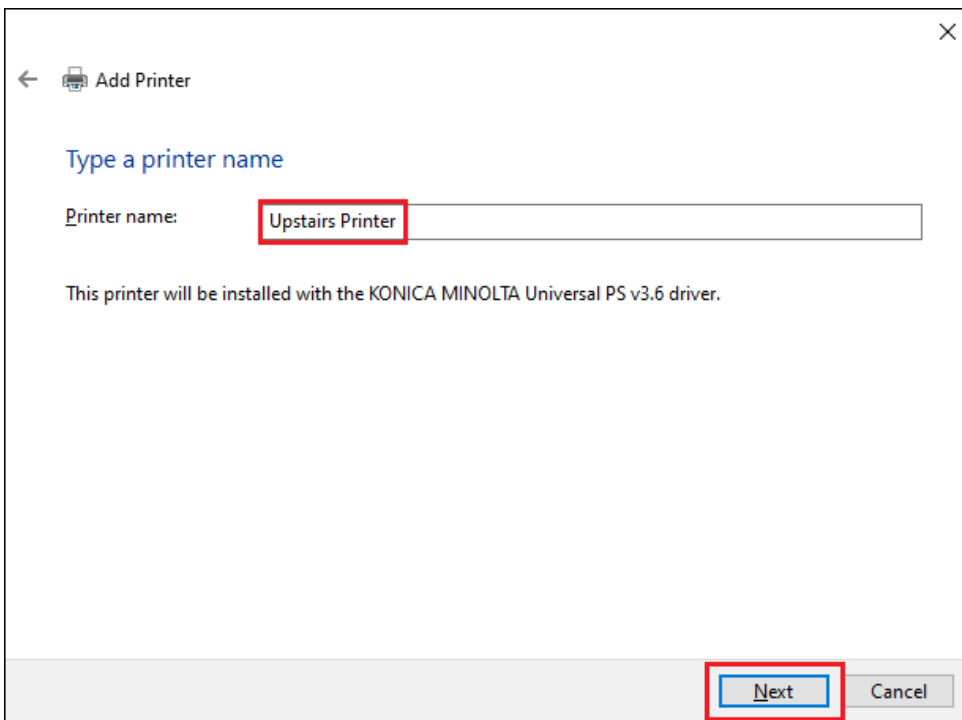
Community Name: public

SNMP Device Index: 1

Queue name on server User logon code

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

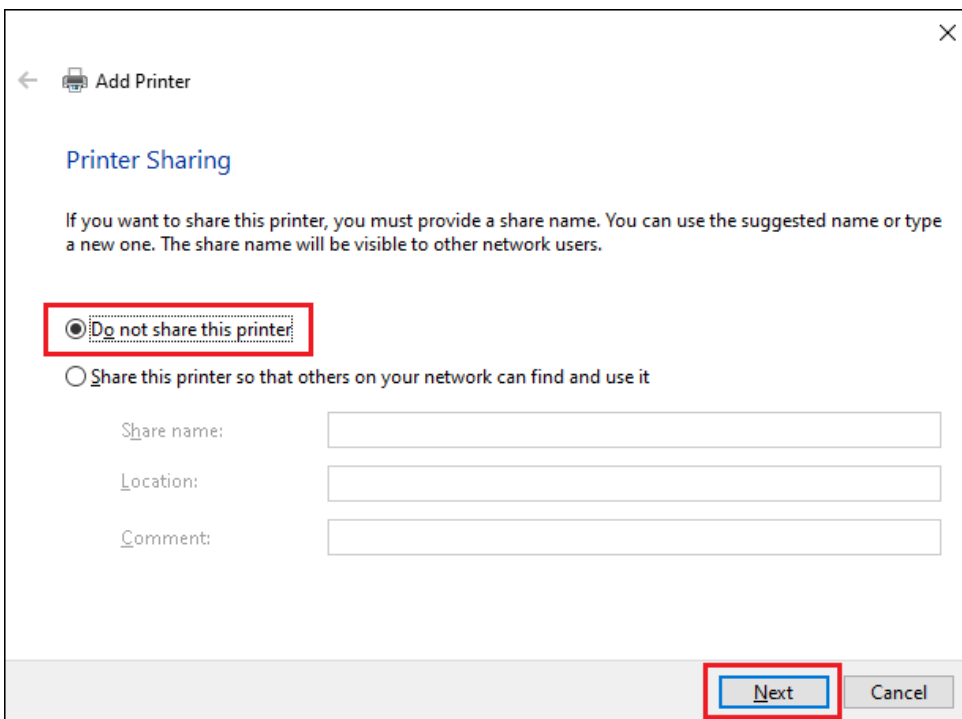
Type a printer name

Printer name:

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.

Do not share this printer

Share this printer so that others on your network can find and use it

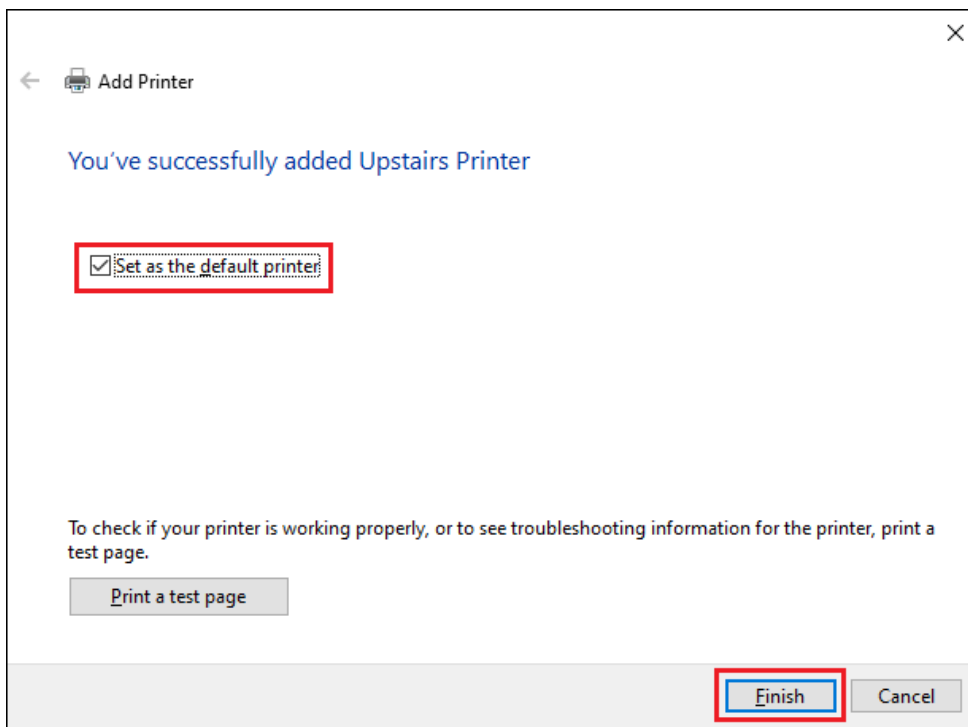
Share name:

Location:

Comment:

Next Cancel

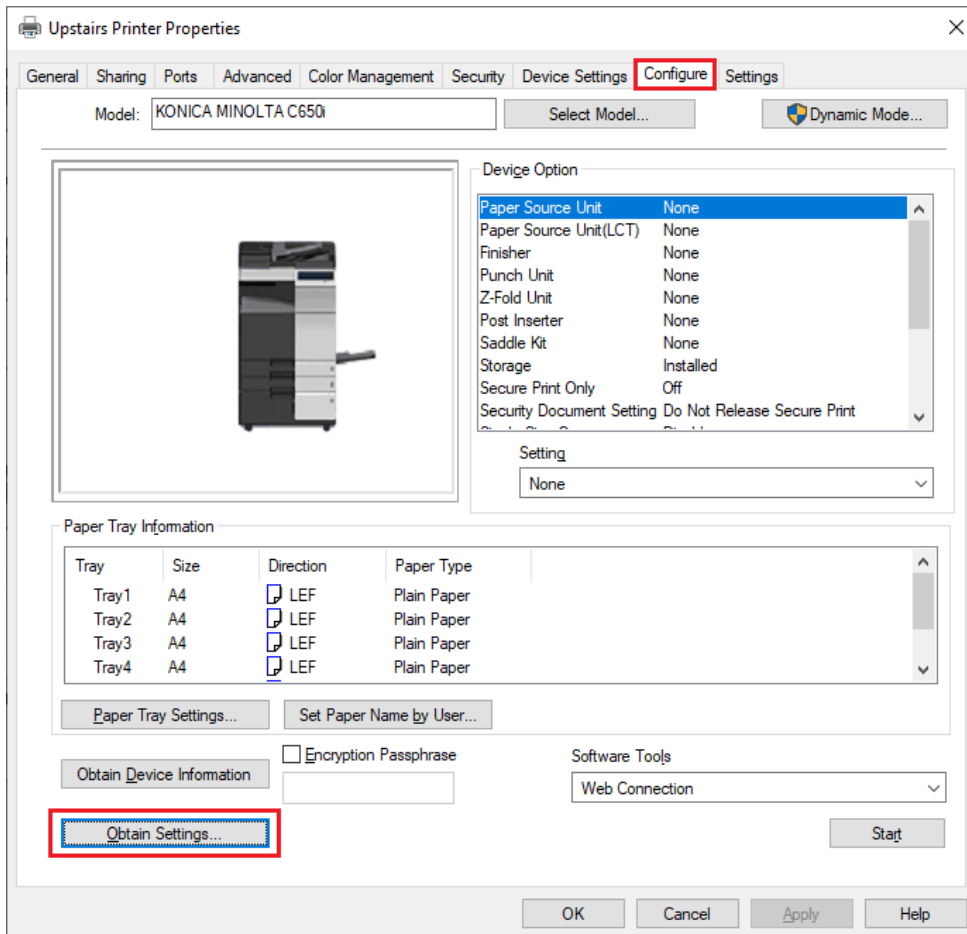
Now click **Finish** on the last form (choosing **Set as the default printer** if you like).



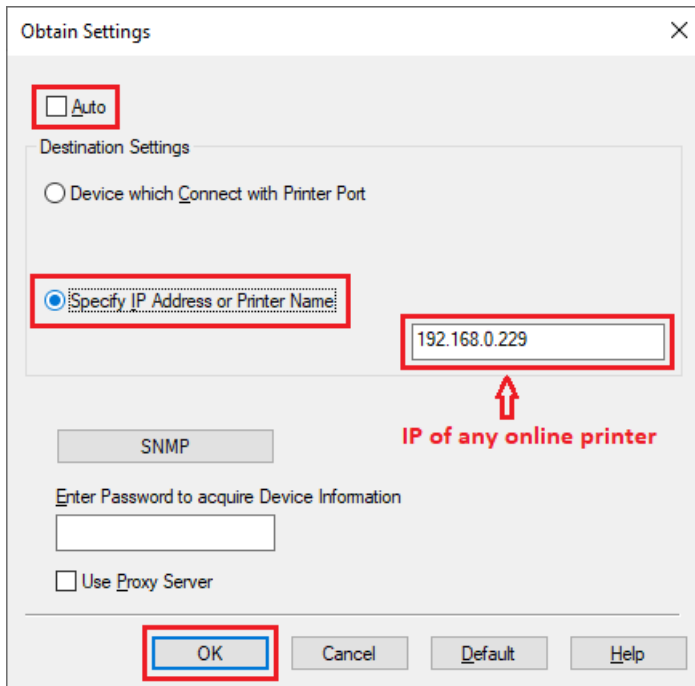
Recommended config setting for Konica Minolta drivers

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.



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.

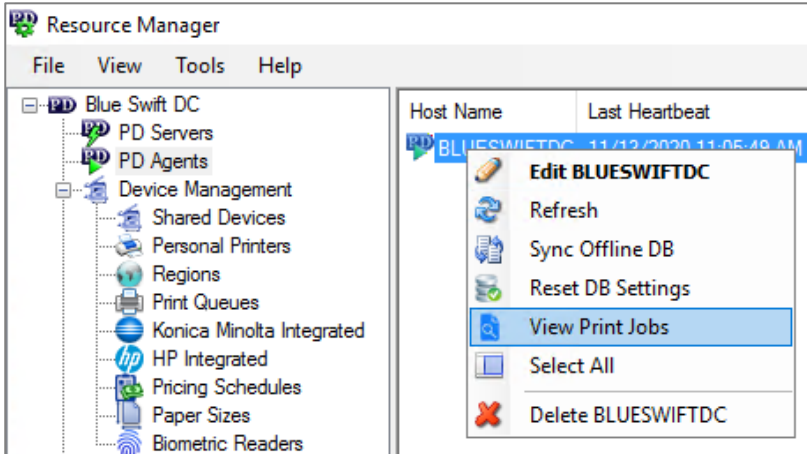


Now click **OK** and **OK** again to close the Printer Properties.

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**.



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

Waiting print jobs on PD Agent: 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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