Xerox® Print Configuration Tool

Customer Tip

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Preface

The Xerox® Print Configuration Tool provides administrators with a convenient way to visually manage defaults in Xerox print drivers as well as the Xerox® Print and Scan Experience. The tool can configure a predetermined set of defaults supported by Xerox V3 and V4 print drivers as well as IPP and Universal Print Queues.

These defaults are saved in a CommonConfiguration.xml file. The print drivers read the file during printer creation and set feature defaults accordingly. The Xerox V3 and V4 print drivers also periodically read the XML file and apply any changes to defaults. This allows administrators to update defaults after printers are installed. For IPP, Universal Print, and Xerox® Print and Scan Experience, changes to the defaults are initiated after the CommonConfiguration.xml file is updated or when the print queue is accessed.

Administrators can use the Xerox® Print Configuration Tool to deploy defaults to printers in common network print environments such as Citrix®, Microsoft® Point and Print, and Xerox® Workplace Cloud.

Table Contents

Preface ..... **i**

New for Print Configuration Tool v4.0.15 ..... **4**

Prerequisites/Assumptions **5**

Default Types **6**

Print Configuration Tool Screens **7**

Configuration File Creation - Example Workflow **12**

List of Features and Values **13**

Creating the Registry Entry **16**

Deploying the Registry Entry and Configuration File **17**

V3 Considerations **20**

V4 Considerations **22**

IPP and Universal Print Considerations **23**

Print Configuration Defaults Example - V3/V4 ..... **25**

Print Configuration Defaults Example – IPP, Universal Print, and Xerox® Print and Scan Experience **28**

Common Questions Regarding CacheExpirationInMinutes **30**

New for Print Configuration Tool v4.0.15

- Resolved the issue where the "Feedback: Disabled" setting always appears when configuring XPSE settings
- Implemented a visual change to the main display to help users determine if there are any conflicting configurations settings. Settings that have a conflict, a lower priority, and are lower in the list, will be shown with lighter gray text.
- Added the following features to the XPSE section of the tool: Hide Scan, Hide Acquire Camera, Hide Print Queue Settings and Hide Support Center

Prerequisites/Assumptions

- Tool version 4.0.15 will work with Xerox Windows v3 Print Driver version 5.1035.2 and newer.
- You may confirm the version of the tool you are using by selecting the menu button and then selecting About. Although this Tool can be used with older releases, not all features are supported.
- To run this application, the workstation must include Microsoft® .NET Framework version 8.0 or higher. If you run the Tool without a high enough version of .NET installed, it will display a download link.
- This document assumes that the user has successfully run the installer to extract the executable and placed it in a known location.
- The **software is available** at the following link: http://www.support.xerox.com/support/globalprinter-driver/file-download/enus.html?contentId=116479

Default Types

Some features in the Xerox® Print Configuration Tool support three different types of defaults. These default types allow administrators to control when or if users are allowed to override defaults set within the Tool. The default types are:

Enforced Settings

Enforced settings allow an administrator to supply a default value that cannot be overridden by users. Users/Admins cannot change the default within Printing Defaults or Printing Preferences. When printing, users are unable to change the feature's value from the Enforced Setting.

For example, if Output Color is set to Black and White as an Enforced Setting then users will not be able to select Color when they print from an application.

Enforced Defaults

Enforced defaults allow an administrator to supply a default value that cannot be overridden by Users/Admins within a print queue's Printing Preferences/Printing Defaults. The user can still change the value of an Enforced Default when printing.

Using the same example, if Output Color is set to Black and White as an Enforced Default then users cannot change the default value back to color. Users can choose to print in color, but they must select color at print time.

Standard Defaults (Listed as Default in pull-down menu)

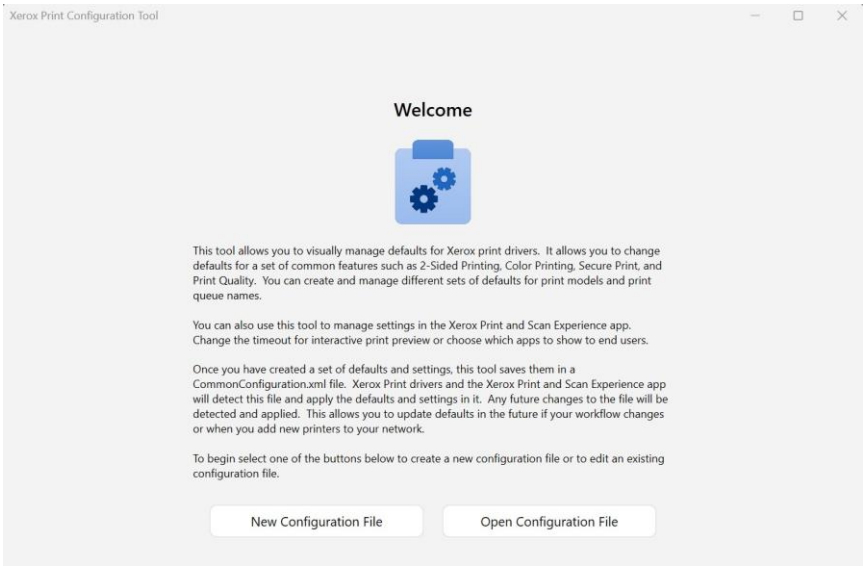
Standard defaults allow an administrator to supply a default value defined as recommended. Users/Admins may override Standard Defaults by specifying their own default value in Printing Preferences. They may also change the value when printing. Users/Admins cannot override Standard Defaults in Printer Properties/Printing Defaults. This is the least restrictive setting.

If Output Color is set to Black and White as a Standard Default, then users will be able to change the default value back to color. They must do so in Settings found under *Printers and Scanners\<printer name>\Printing Preferences*. They may also choose to print in color by selecting it when they print.

Print Configuration Tool Screens

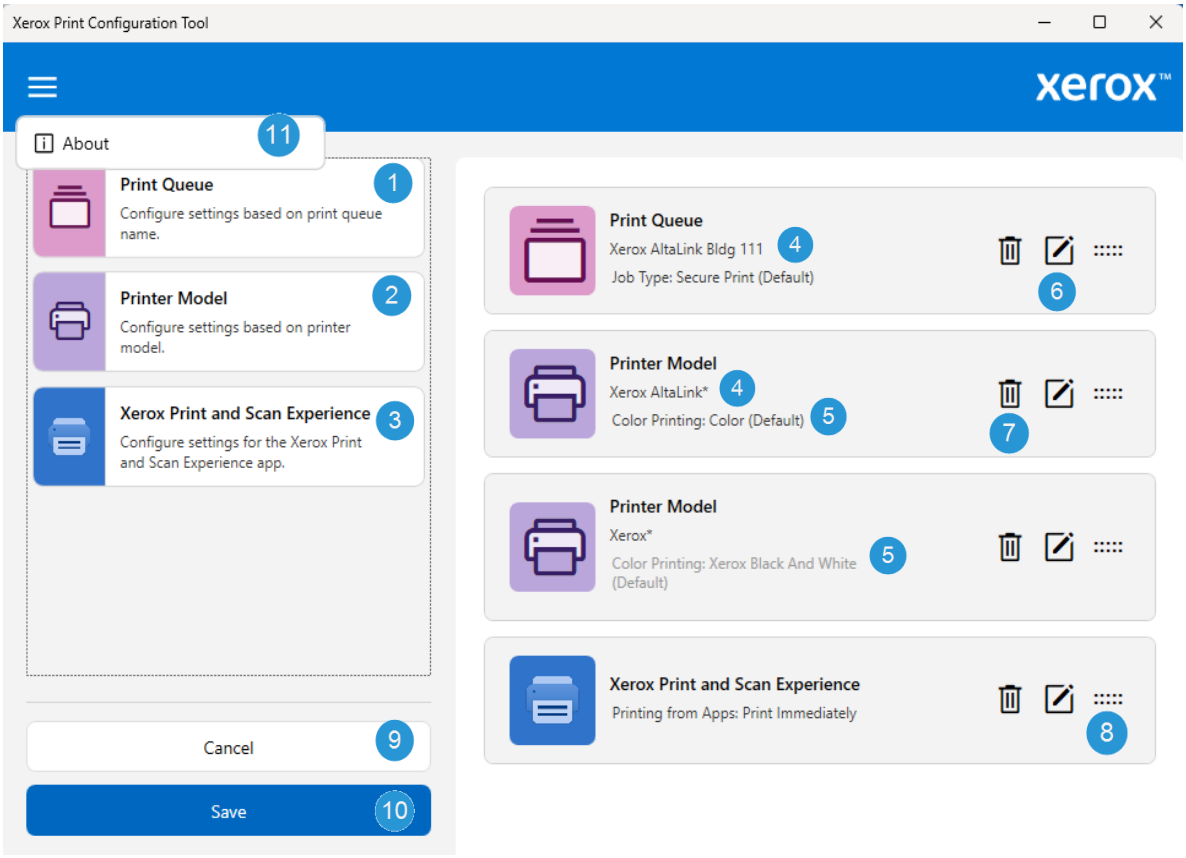
Welcome Screen

When you run the Print Configuration Tool you will be presented with the EULA. Agree to the terms and the Welcome screen is displayed.



- To begin creating a configuration file, select ‘New Configuration File’.
- To access an existing configuration file, select ‘Open Configuration File’. The tool prompts you to browse to the directory where the CommonConfiguration.xml file is stored.
- After choosing an option, the welcome screens closes, and the main Print Configuration Tool screen will open.

Main Screen



Configuration settings higher in the list take priority over settings below

1 **Print Queue**

Opens the print queue settings window, allowing the user to define **one or more new print queues** and their configuration settings. Newly created print queue configurations will be appended to the list.

2 **Printer Model**

Opens the printer model settings window, allowing the user to define **one or more new printer models** and their configuration settings. Newly created printer model configurations will be appended to the list.

3 **Xerox® Print and Scan Experience**

Opens the Xerox® Print and Scan Experience settings window, allowing the user to configure settings specifically meant for Xerox® Print and Scan Experience. Only one set of Xerox® Print and Scan Experience settings can be added to a configuration file. Adding a new set will replace the existing set in the list. By selecting Xerox® Print and Scan Experience, you cannot enter a printer model name or print queue name.

4 **Printer Model Name or Print Queue Name**

If you select Printer Model or Print Queue, then the name you enter can be a specific printer model or specific print queue. The name may contain any number of wildcard '*' characters so it can match multiple printer models or print queues. A print queue name can be no more than 220 characters long. The tool supports creating a printer model and print queue with the same name.

5 Configuration Settings

These are the settings that are associated with a printer model, print queue or Xerox® Print and Scan Experience.

If two or more configurations apply to a printer model or a print queue, then the configuration settings encountered first in the list will override any configuration settings lower in the list. Overridden configuration settings will be displayed with lighter gray text.

If a print queue and printer model have the same name, the print queue configuration settings take priority over the printer model configuration settings.

Conflicting settings should be addressed by using one of the following methods:

- Reordering the items in the list.
- Changing or adding printer model or print queue configurations.
- Doing nothing with the realization that some settings may not be applied to configurations.

In the above image the *Xerox AltaLink** Color-Default setting conflicts with the *Xerox** Black and White – Default setting. Since *Xerox AltaLink** appears higher in the list, Xerox® AltaLink devices will have the default value of color instead of the default value of black and white. Consequently, if *Xerox** was moved up to the top of the list then Xerox® AltaLink devices will now default to black and white instead of color.

6 Edit

Individual configurations can be edited by selecting the pencil.

7 Delete

To permanently remove a configuration from the list, select the trash can. When prompted select Yes to permanently delete it. The [Delete] key serves the same purpose.

8 Move Selections

Allows a user to move printer model or print queue configurations up and down in priority. In the event of conflicting settings, items higher in the list take precedence over items lower in the list.

9 Cancel

Warns the user that any unsaved settings will be lost before returning to the Welcome screen.

10 Save

Creates a common configuration file with the current values. The print driver requires that this file is named “CommonConfiguration.xml”. Configuration will not work correctly if the name of the CommonConfiguraiton.xml file is changed. When prompted, select Continue if you would like to make more changes or select Finished to save the file and close the application.

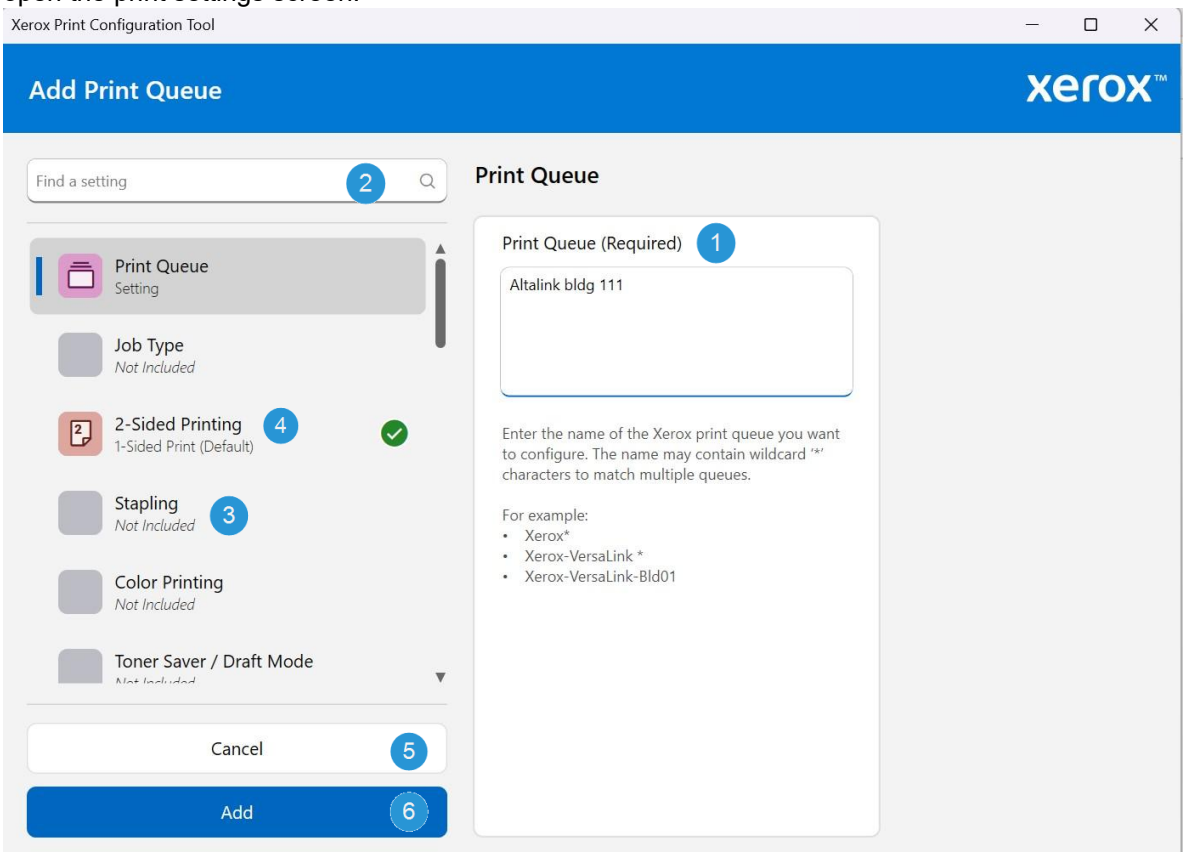
Note: To address the possible desire to define multiple configuration files (example: for different departments or office locations; not for individual print models), each file would need to reside in a different folder.

11 About

Selecting the Menu in the upper left corner and then selecting About opens an “About” window that includes copyright and the software version number.

Add or Edit Settings Screen

Adding or Editing a print queue, a printer model, or a Xerox® Print Experience configuration, will open the print settings screen.



1 Printer Model or Printer Queue Text Box

If you select either Printer Model or Print Queue when creating a new configuration, this text box will be empty. When editing an existing configuration, this text box displays the currently selected printer model/print queue's name. In this text box the user can:

- Rename an existing printer model/print queue.
- Enter one or more new printer model/print queue names, separated by semicolons (;) or commas (,).

When adding additional printer models or print queues to an existing printer model or print queue the tool treats these additions as new configurations and will append them to the bottom of the configuration list. The original edited printer model/print queue will retain its order in the list.

Note: If you select Xerox® Print and Scan Experience when creating or editing settings, the print queue or printer model text box will not be present.

2 Find a Setting

Allows a user to filter the list of configurable settings to show only those that match the text. The search text will be matched to the feature name or the options within the feature.

3 **Settings Not Configured**

Features that are not configured are indicated with a grey box (missing icon) and with the words “Not Included”.

4 **Settings Configured**

Features which are configured are indicated with a green check mark, a brief description of what is configured, and the default type.

Example: In the image above 2-Sided Printing is configured for 1-Sided Print with a Default setting.

5 **Cancel**

Exits the Add/Edit Settings screen without saving the settings.

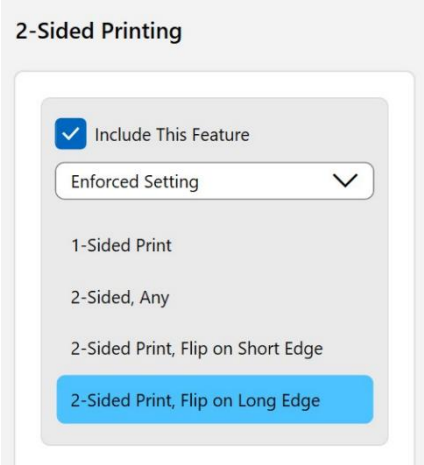
6 **Add**

Saves the new settings and either creates a new entry in the configuration list or updates an existing one.

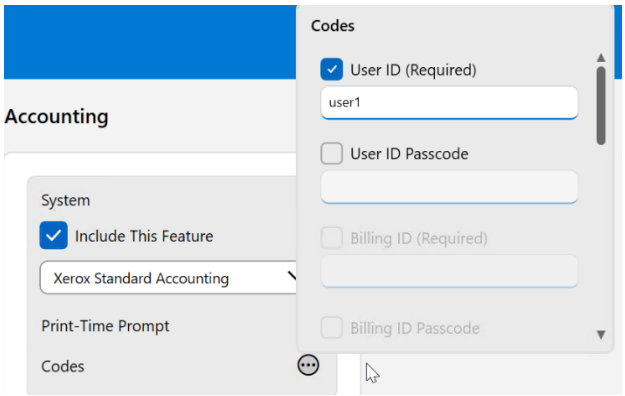
Note: If a Xerox® Print and Scan Experience setting is already present and a new setting is added a warning message appears asking the user if they want to replace the existing settings. Only one set of settings for the Xerox® Print and Scan Experience can be added to the configuration file.

Configuration File Creation - Example Workflow

This example will show how to create a CommonConfiguration.xml file, with duplex and accounting configured, using the Xerox® Print Configuration Tool.



1. Start the Xerox® Print Configuration Tool
2. Agree to the license then select, “New Configuration File”
3. Choose New Print Queue
4. Enter “Xerox*” for the print queue name
5. Select the 2-Sided Printing setting
6. Check ‘Include This feature’
7. Change the default level to ‘Enforced Setting’
8. Select a value for the new default, in this example 2-Sided Print, Flip on Long Edge is selected.
9. Now enter “*accounting*” into the search field
10. The tool should find the Accounting feature
11. Select Accounting
12. Under System check ‘Include This Feature’
13. Select ‘Xerox Standard Accounting’
14. Select the Codes ellipsis
15. Check User ID and enter “*User1*” then select anywere off the Codes dialog.
16. Under Tracking Options check ‘Include This Feature’, Track All Jobs’.



17. Select Add to add the settings to the configuration list.
18. Select Save to create the CommonConfiguration.xml file.

List of Features and Values

Important Notes:

- Features delineated with **(v3)** are not applicable to the Xerox V4 Print Drivers, Xerox® Desktop Print Experience App, IPP & Universal Print Queues with the Xerox® Print Support App, and the Xerox® Print and Scan Experience App.
- Xerox Pull Print Configuration, (feature #15), only affects the Xerox® Pull Print Driver V3 and the Xerox® Pull Print Driver V4. The Print Configuration Tool cannot configure any other pull print solution.
- The Xerox® Print and Scan Experience app does not support print features delineated with **(*)**.
- Settings in Xerox® Print and Scan Experience, (feature #22), can only be set when you select 'Xerox Print and Scan Experience' when adding a new configuration.

1. Color Printing

A. Color Printing
- Color, Black and White

B. Enforce Black and White Synchronization
- Enforced or Not Enforced

2. Secure Print Only
- Included or Not Included

3. 2-Sided Printing
- 1-Sided Print
- 2-Sided Print, Flip on Long Edge
- 2-Sided Print, Flip on Short Edge
- 2-Sided Any

4. **(v3)** Image Compression
- Disabled
- Recommended Reduction/Best PQ
- Good Reduction/Acceptable PQ
- Max Reduction

5. **(*)** Bi-Directional Communication

A. Bi-Directional Communication
- Disable Job Notification
- Enable Job Notification
- Disable BiDi

B. Read Community Name

C. **(v3)** Write Community Name

6. Job ID
- On or Off
- Print ID on a Banner Page
- Print ID in Margins – First Page Only
- Print ID in Margins - All Pages

7. Page Layout
- 1, 2, 4, 6, 9, 16

8. Stapling
- No Finishing, 1 Staple

9. Toner Saver/Draft Mode
- Off, On

10. Job Type

A. Default Job Type
- Normal Print
- Secure Print
- Delay Print
- Store File in Folder
- **(v3)** Fax
- Personal Print
- **(*)** Proof Print / Sample Set
- **(*)** Saved Job
- Print With
- Hold Job
- Saved Background Form

10 B. Disable Job Types

A. Normal Print
- Enabled
- Disabled

B. Secure Print
- Enabled
- Disabled

C. Delay Print
- Enabled
- Disabled

D. Store File in Folder
- Enabled
- Disabled

E. **(v3)** Fax
- Enabled
- Disabled

F. Personal Print
- Enabled
- Disabled

G. Proof Print / Sample Set
- Enabled
- Disabled

H. Saved Job
- Enabled
- Disabled

I. Print With
- Enabled
- Disabled

J. Hold Job
- Enabled
- Disabled

K. Saved Background Form
- Enabled
- Disabled

11. **(v3)** Mask Job Name
- Included or Not Included

12. **(v3)** LDAP Printing

A. Authentication
- None
- LDAP Server
- Domain

B. Prompt
- For Every Job
- After Authentication Expires

C. Expiration
- Never
- After Every Job
- After User Login
- 1 minute
- 5 - 45 minutes (increments by 5 minutes)
- 1 – 24 Hours (increments by 1 hour)

D. Primary Host
- [Entry]

E. Primary Port
- 1- 65535

F. Secondary Host
- [Entry]

G. Secondary Port
- 1-65535

H. Search Directory
- [Entry]

I. Search Attribute
- [Entry]

J. Return Attribute
- [Entry]

13. **(*)** Hide Saved Settings
- Included or Not Included

14. **(v3)** TrueType Font
- Substitute with Device Font
- Download as Soft Font

15. Xerox Pull Print Configuration

A. Paper Trays
- 2 Trays
- 3 Trays
- 4 Trays
- 5 Trays
- 6 Trays
- 7 Trays

B. Stapler
- Not Installed
- 1 and 2 Stapler Installed
- 1, 2 and 4 Staple Installed

C. Hole Punch Module
- Not Installed
- 2 Hole Punch Unit
- 2 and 3 Hole Punch Unit
- 2 and 4 Hole Punch Unit
- 3 Hole Punch Unit
- 4 Hole Punch Unit

D. Booklet Module
- Not Installed, Installed

E. Productivity Pack
- Not Installed, Installed

F. Envelope Media
- Disabled, Enabled

16. Print Quality
- Enhanced
- Fast Color
- High Quality
- High Resolution
- High Speed
- Photo Mode
- Standard
- Toner Saver

17.Rotate Image 180

A. Intelligent Rotation
- On, Off

B. Subsequent Rotation
- On, Off

C. Paper Size (Subsequent Rotation)
- Short Edge Feed Sizes
- All Paper Sizes
- A list of individual paper sizes

D. Orientation (Subsequent Rotation)
- Portrait Pages
- Landscape Pages
- Portrait and Landscape Pages

18. Disable Share Diagnostic Data
- Included or Not Included

19. **(v3)** ICM Method
- ICM Disabled
- ICM Handled by Printer

20. **(v3)** Disable Suggestions
- Include or Not Include

21. Accounting A. System • None • Local Accounting • Xerox Standard Accounting • Xerox Network Accounting • Charge Print B. Print-Time Prompt • On or Off C. Mask User ID • On or Off D. Mask Billing ID • On or Off E. Mask Accounting ID • On or Off F. Remember Last Entered Codes • On or Off G. Tracking Options • Track for All Jobs • No Tracking • Tracking Only for Color • Tracking Only for Print • Tracking Only for Fax • Tracking Only for Color and Fax H. Codes • User ID • User ID Passcode • Billing ID • Billing Passcode • Accounting Type ○ Default Group Account ○ General Account ○ Group Account • Accounting ID	22. Xerox® Print and Scan Experience A. Hide Add Printer • Include or Not Include B. Hide Feedback/Suggestions • Include or Not Include C. Printing from Apps • Show an OS Notification • Open Print Preview • Open Document Editor • Print Immediately D. Hide Scan • Include or Not Include E. Hide Acquire Camera • Include or Not Include F. Hide Workflow Central • Include or Not Include G. Hide Print Queue Settings • Include or Not Include H. Hide Supplies • Include or Not Include I. Hide Support Center • Include or Not Include	

Creating the Registry Entry

Once an administrator has created a common configuration file with the Xerox® Print Configuration Tool, they will need to add the registry entry detailed below to their PCs. Xerox print drivers use this registry entry to locate the path to the configuration file. Without the registry entry the print drivers cannot find the configuration file and are unable to apply print configuration defaults. Xerox V3, V4, IPP, and Universal Print queues use the same registry key and entry.

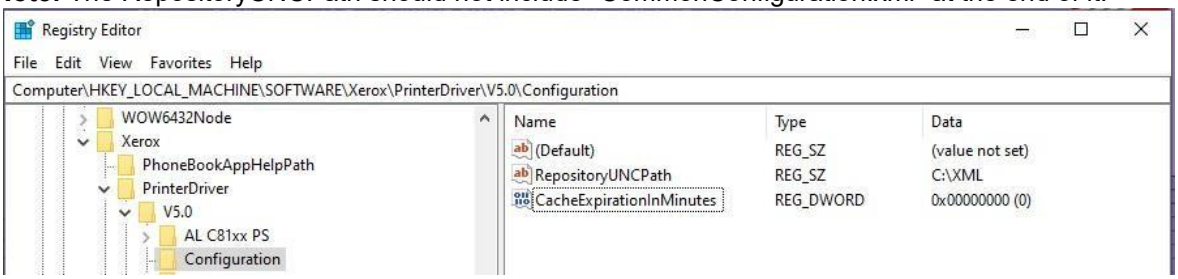
Registry Entry Creation Steps

Caution: Before proceeding with these changes, Xerox highly recommends that the registry be backed up and the changes be tested in each unique environment prior to rollout. Xerox is not responsible for any changes you may make to your operating system.

1. Open Registry Editor.
2. Go to the following location within the registry:
   [HKEY_LOCAL_MACHINE \Software\Xerox\PrinterDriver\V5.0\]
   Note: If V5.0 does not exist, create this folder.
3. Create a new **Key** called **Configuration**. The registry key should now be:
   [HKEY_LOCAL_MACHINE \Software\Xerox\PrinterDriver\V5.0\Configuration]
4. Within the Configuration key create a new **String Value** with the following name: **RepositoryUNCPath.**

   In the 'Value data' field enter a single path to the .xml file's location. The location may be a server's share or local pc's folder (Example: C:\MyDefaults or \\file-server\shared_folder). This field does not support the configuration of multiple paths.

Note: The RepositoryUNCPath should not include "CommonConfiguration.xml" at the end of it.



5. An **optional DWORD Value** with the name **CacheExpirationInMinutes** can also be added to the Configuration key.
   If the **CacheExpirationInMinutes** key is not created the default is set to 1440 minutes (24 hours).
   If the **CacheExpirationInMinutes** key is set to 0 (zero) the driver will check the configuration every time printer properties are accessed, which may affect driver response.

Note: Xerox V4, IPP, and Universal Print queues do not use CacheExpirationInMinutes. For more details see the Common Questions Regarding CacheExpirationInMinutes section of this document.

6. Exit the windows registry.
7. Place the CommonConfiguration.xml in the path specified by RepositoryUNCPath.

Deploying the Registry Entry and Configuration File

The registry entry and configuration file can be deployed in a few ways depending on the print environment. Here we will detail how to deploy them in the following common print environments.

- **Windows Client Only Printers** – Here printers are created directly on end user workstations. No print servers are involved.
- **Microsoft® Point and Print** – Printers are shared from print server(s) down to end user workstations (clients).
- **Other** – Example deploying print configuration defaults within a Citrix Environment.

Deployment for Windows Client Only Printers

If you do not use print servers then the registry entry will need to be added to each PC. CommonConfiguration.xml can be placed in a directory on each PC, or in an accessible network file share. Print configuration tool defaults are applied to the printers on each PC, and there is no default propagation.

Deployment in Microsoft® Point and Print

Xerox V3 and V4 print drivers both support print configuration tool defaults in Microsoft® Point and Print with print servers and client workstations. These defaults are typically applied to the server print queues and then are propagated to end users' workstations (client) through Microsoft® Point and Print. Since the clients receive defaults from the print server, end user workstations do not need the registry entry or configuration file.

Deploying print configuration tool defaults for V3 Point and Print printers.

Option 1 - Server-side default deployment

In this option print configuration tool defaults propagate from printer shares on print server(s) to clients as described above.

- The registry entry must be added to the print server's registry.
- CommonConfiguration.xml can be placed in a local directory on the print server or it can be placed in a network file share accessible to the print server.

  Note - The operating system is responsible for propagating defaults from the print server to client printer connections. There may be a delay from when defaults are set on the print server to when they arrive on the client.

Option 2 – Client-side default deployment

The client print connection(s) read the defaults from the CommonConfiguration.xml file and not from the print server. In this option defaults are not propagated from print server(s) like in option 1.

- The registry entry must be added to each client's registry.
- CommonConfiguration.xml can be placed in a local directory on each client or it can be placed in a network file share accessible to clients.

Important consideration when deploying print configuration tool defaults to Xerox V3 printers by print queue name in Point and Print.

The Xerox V3 print driver distinguishes Point and Print queue names from local print queue names by prefixing the server name in front of the queue name, "<*ServerName*><*QueueName*>". For example, the printer *Xerox-C625* on the print server *Office-Print* becomes "*Office-PrintXerox-C625"* to the Xerox V3 print queue on a client PC.

When configuring Point and Print printers by print queue name, prefix the queue name with a "*" wildcard character so the Xerox V3 print driver on both the print server and the client can pick up the configuration. Prefixing print queue names with "*" must be done when deploying defaults by print queue name from **both** the server-side (Option 1) and the client-side (Option 2) setups.

Here are two examples,

- To deploy defaults for a Point and Print queue named Xerox-C625, use the string "***Xerox-C625***" in the print configuration tool.
- To deploy defaults for all Point and Print queues whose name starts with Xerox, use the string "***Xerox****" in the print configuration tool.

Note - You do not need to prefix queue names with "*" in the print configuration tool when deploying defaults to Xerox V4 Point and Print queues.

Deploying print configuration tool defaults for V4 Point and Print printers.

Server-side default deployment

As with V3 drivers, print configuration tool defaults are propagated from the print server to clients.

- The registry entry must be added to the print server's registry.
- CommonConfiguration.xml can be placed in a local directory on the print server or it can be placed in a network file share accessible to the print server.

  Note - The operating system is responsible for propagating defaults from the print server to client printer connections. There may be a delay from when defaults are set on the print server to when they arrive on the client.

Xerox V4 print drivers do not support client-side print configuration tool default deployment in Point and Print. Defaults **must** be deployed on the print server.

Deployment in Citrix® Environments

Important points when setting up print configuration tool defaults for Citrix® Auto-Created printers

- Print configuration tool defaults should be setup on both Citrix® servers and on clients.
- Print configuration tool defaults should be setup on clients before creating printers.
- Print configuration tool defaults should be setup on Citrix® XenApp servers before the print drivers are added and before users log into Citrix® sessions.

Step 1 – Setup print configuration tool defaults on each Citrix® server

These steps need to be performed on any Citrix® server that auto-creates Xerox printers.

1. Add the '**Configuration**' key containing *RepositoryUNCPath* and optionally, *CacheExpirationInMinutes* to each server's registry.

2. Place “CommonConfiguration.xml” in the path specified in *RepositoryUNCPath.*
3. Add the print driver to the Citrix® server.

Step 2 - Setup print configuration tool defaults on each client

1. Add the ‘**Configuration**’ key containing *RepositoryUNCPath* and optionally, *CacheExpirationInMinutes* to each client’s registry.
2. Place “CommonConfiguration.xml” in the path specified in *RepositoryUNCPath.*
   a. The “CommonConfiguration.xml” file on the client **must match** the “CommonConfiguration.xml” file on the Citrix® server.
3. Create printers with the print driver.
   a. The print driver on the client **must match** the print driver installed on the Citrix® server.

Important points when setting up print configuration tool defaults for Citrix® Session printers

- Print configuration tool defaults should be setup on both Citrix® servers and on print servers.
- Print configuration tool defaults should be setup on print servers before creating printers.
- Print configuration tool defaults should be setup on Citrix® XenApp servers before the print drivers are added and before users log into Citrix® sessions.
- Print configuration tool defaults do not need to be setup on clients if no print drivers are installed on them.

Step 1 - Setup print configuration tool defaults on each Citrix® server

1. Add the ‘**Configuration**’ key containing *RepositoryUNCPath* and optionally, *CacheExpirationInMinutes* to each server’s registry.
2. Place “CommonConfiguration.xml” in the path specified in *RepositoryUNCPath*.
3. Add the print driver to the Citrix® server.

Step 2 - Setup print configuration tool defaults on each print server

1. Add the ‘**Configuration**’ key containing *RepositoryUNCPath* and optionally, *CacheExpirationInMinutes* to the print server’s registry.
2. Place “CommonConfiguration.xml” in the path specified in *RepositoryUNCPath*.
   a. The “CommonConfiguration.xml” file on the print server **must match** the “CommonConfiguration.xml” file on the Citrix® server.
3. Create printers with the print driver.
   a. The print driver on the print server **must match** the print driver installed on the Citrix® server.

V3 Considerations

This section contains information administrators should consider when deploying print configuration tool defaults to the Xerox® Global Print Driver and the Xerox® Pull Print Driver.

Common Considerations

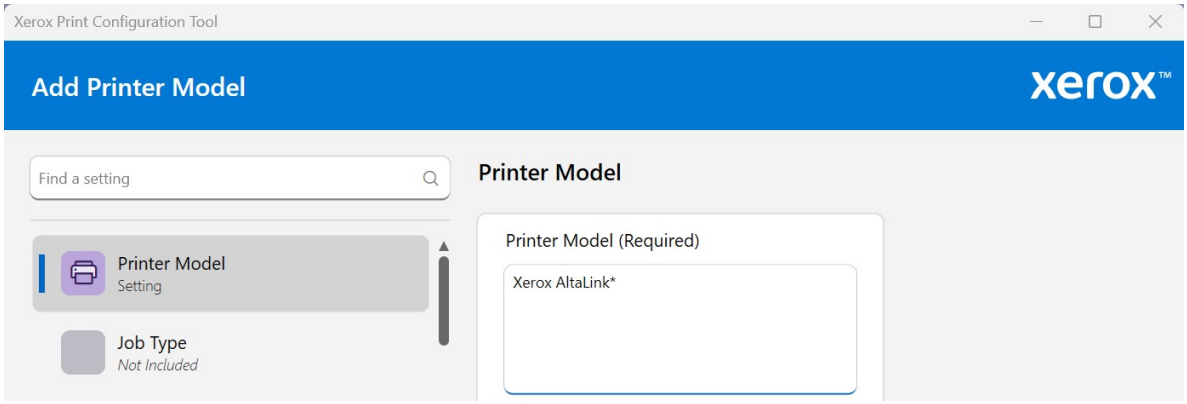
All Xerox V3 print drivers will read the configuration file when a user signs into the operating system.

In Point and Print, it can take time for default changes made to shared V3 server queues to propagate down to clients. To speed up the time it takes for default changes to propagate, open the server queue's Printer Properties and select the OK button.

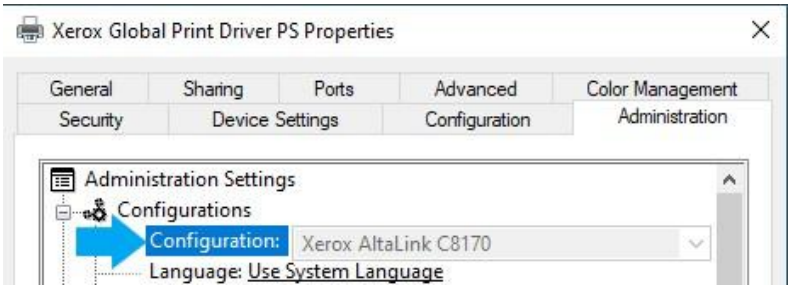
Xerox® Global Print Driver

The Xerox® Global Print Driver determines which print configuration tool defaults to apply based on the printer model it is connected to. If you are using Printer Model to define defaults and deploying the Xerox® Global Print Driver, the Printer Model you use in the tool should correlate with the printer model the driver is connected to.

For example, say you are deploying Xerox AltaLink® C8170 printers with the Xerox® Global Print Driver. In the Xerox Print Configuration Tool use a model string like "*Xerox AltaLink**". Do **not** use the model string "*Xerox Global Print Driver**".

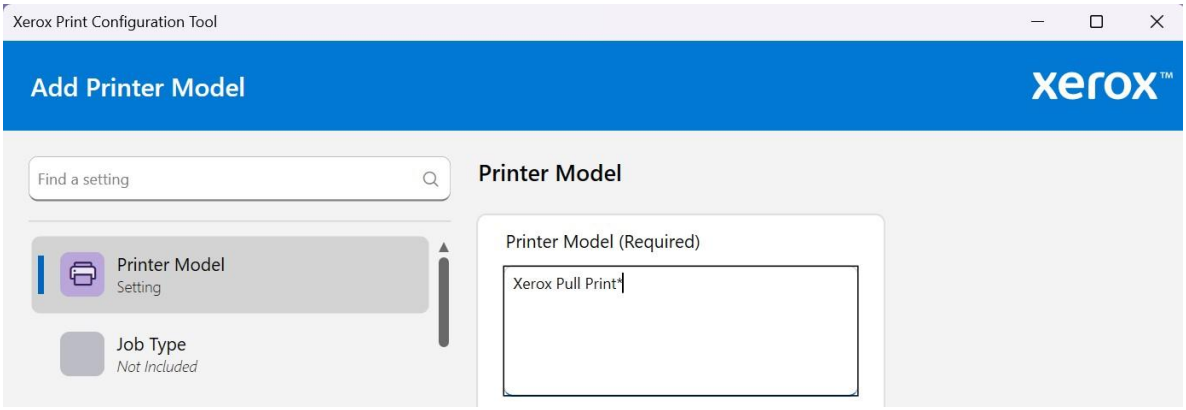


You can see which printer model the Xerox® Global Print Driver is connected to in the Printer Properties dialog. To see the printer model: open **Settings**, then navigate to *Printers and Scanners\<printer name>\Printer Properties*. Select the **Administration** tab. The printer model is displayed next to **Configuration**. This is the printer model the Xerox® Global Print Driver will use when it reads defaults from the CommonConfiguration.xml file.



Xerox® Pull Print Driver

The Xerox® Pull Print Driver does **not** determine defaults based on the printer model it is connected to. If you are using Printer Model to define print configuration tool defaults, then use Pull Print Driver as the model. For example, *Xerox Pull Print **”.

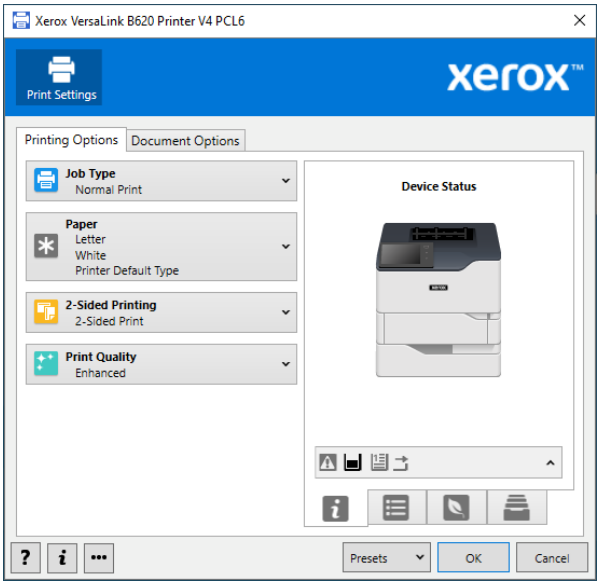


Note: The Pull Print features in the Print Configuration Tool only affects the Xerox® Pull Print Driver V3 and the Xerox® Pull Print Driver V4. The Tool cannot configure any other pull print solution.

V4 Considerations

The Xerox® Desktop Print Experience application must be installed for print configuration to work with Xerox V4 print drivers. The driver cannot read defaults from the CommonConfiguration.xml file without it. If you are using print servers then the Xerox® Desktop Print Experience application must be installed on each print server and on all clients.

Administrators can deploy the configuration file and the registry entry before or after they install the Xerox® Desktop Print Experience but print configuration defaults will not work until it is installed.



The Xerox® Desktop Print Experience

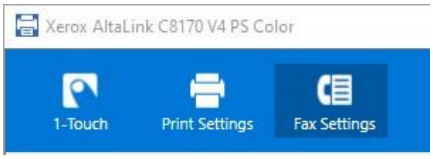
Xerox V4 printers do not use the *CacheExpirationInMinutes* registry entry. Instead, the driver reads the configuration file on certain OS events.

- User sign in.
- A new printer is created with a Xerox V4 print driver
- A new Point and Print connection is made to a V4 printer share.
- A new configuration file is created, or the current file is updated.
- The Xerox® Desktop Print Experience is installed or upgraded.

V4 printers use the same registry key as V3 print drivers, *HKEY_LOCAL_MACHINE \Software\Xerox\PrinterDriver\V5.0\Configuration*.

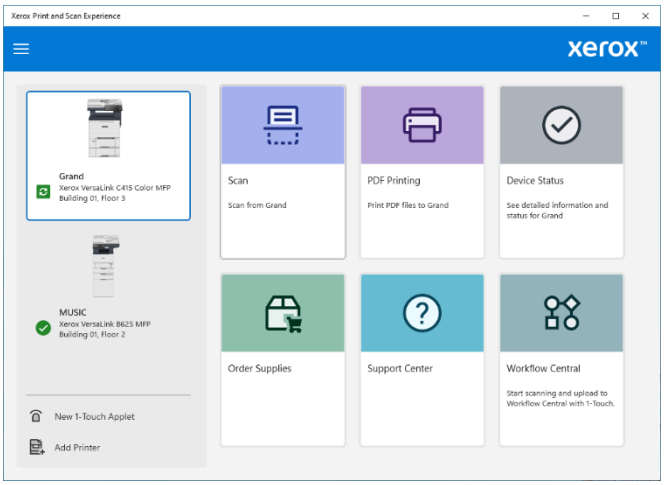
Some features in the Print Configuration Tool are not supported by V4 print drivers. The Features and Values list in this document details which features are unsupported.

- One unsupported feature to note is Job Type - Fax. In Xerox V4 print drivers, fax is not a print job type. Instead, it is a separate feature. As a result, Fax cannot be set as the default job type or as an allowed job type with the Print Configuration Tool.

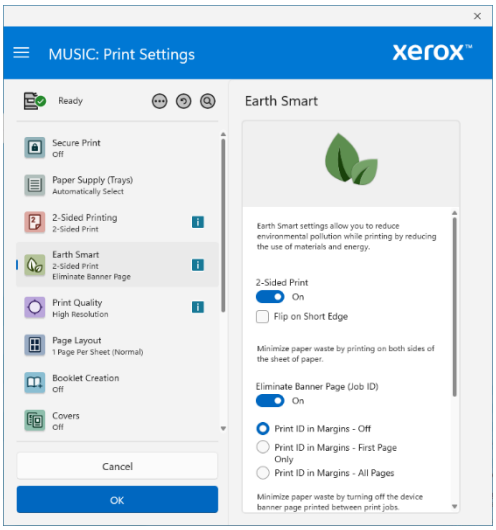


IPP and Universal Print Considerations

The Xerox® Print and Scan Experience application must be installed for the print configuration tool will work with Xerox IPP and Universal Print queues. IPP and Universal Print queues use the Xerox® Print and Scan Experience as a print support app. The Xerox® Print and Scan Experience app also uses print configuration tool defaults when printing PDFs directly from the app. The Xerox® Print and Scan Experience can be found in the Microsoft® Store.



Xerox® Print and Scan Experience showing the PDF Printing Feature



Xerox® Print and Scan Experience as a Print Support App for a Xerox IPP printer

Like V4, IPP, and Universal Print queues do not use the *CacheExpirationInMinutes* registry entry. The Xerox® Print and Scan Experience application will automatically read the configuration file every two hours in the background. It will also read the configuration file on certain OS events.

- User sign in.
- A new configuration file is created, or the current file is updated.
- When the RepositoryUNCPath key is changed.
- A new IPP or Universal Print queue is added in Windows.

IPP and Universal Print queues use the same registry key as V3 print drivers, *HKEY_LOCAL_MACHINE \Software\Xerox\PrinterDriver\V5.0\Configuration*.

As with Xerox V4 print drivers, some features in the Print Configuration Tool are not supported by IPP and Universal Print queues. See the Features and Values list in this document for details.

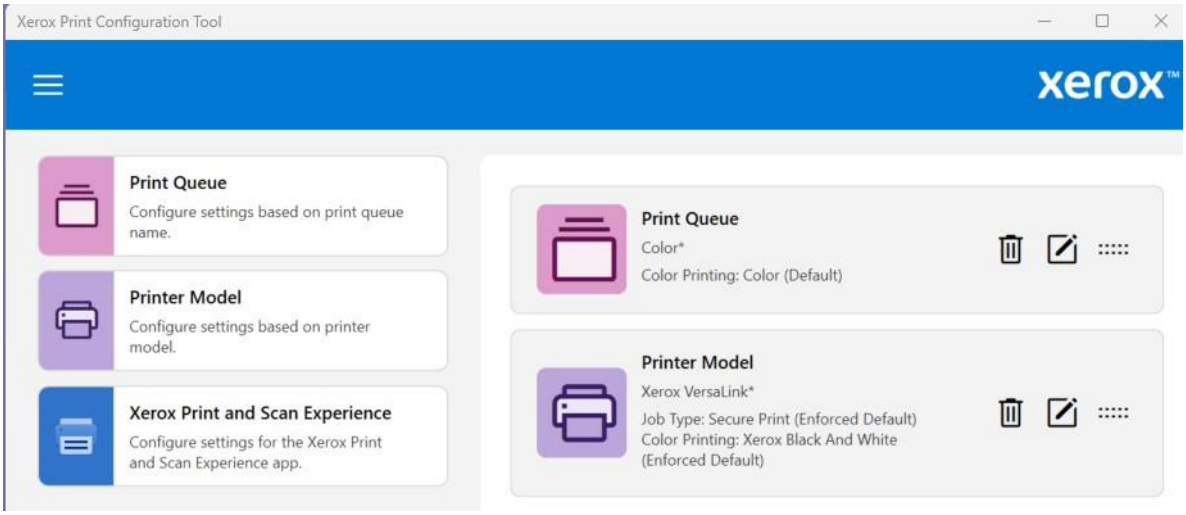
Print Configuration Caveats for IPP and Universal Print Queues

- Due to an OS limitation, the Xerox® Print and Scan Experience does not support **Defaults or Enforced Defaults** in Windows versions prior to Windows 11 24H2. This includes Windows 10 22H2 and earlier.
- **Enforced Settings** are supported in Windows versions prior to Windows 11 24H2. They will be reflected in print jobs with one caveat.
    - Enforced Settings will not be reflected in the application print dialog but will be present when the job is printed.

- Print configuration tool settings may not be applied to the first print after a new CommonConfiguration.xml file is added to a PC. The Xerox® Print and Scan Experience needs time to process the new configuration file. If a document is printed before the app finishes processing the file, then print configuration tool settings will not be applied to it.
    - To fix this problem close the application, reopen the document, and then print it again.
- The Xerox® Print and Scan Experience does not support the following features with print configuration.
    - Bi-Directional Communication (*Enable/Disable Job Notification, Disable BiDi*)
    - Feature Support (*Saved Settings*)
    - Job Type (*Saved Job, Sample Set*)
- Secure Print will be disabled when Job Type *Normal Print* is set as an Enforced Setting.

Print Configuration Defaults Example - V3/V4

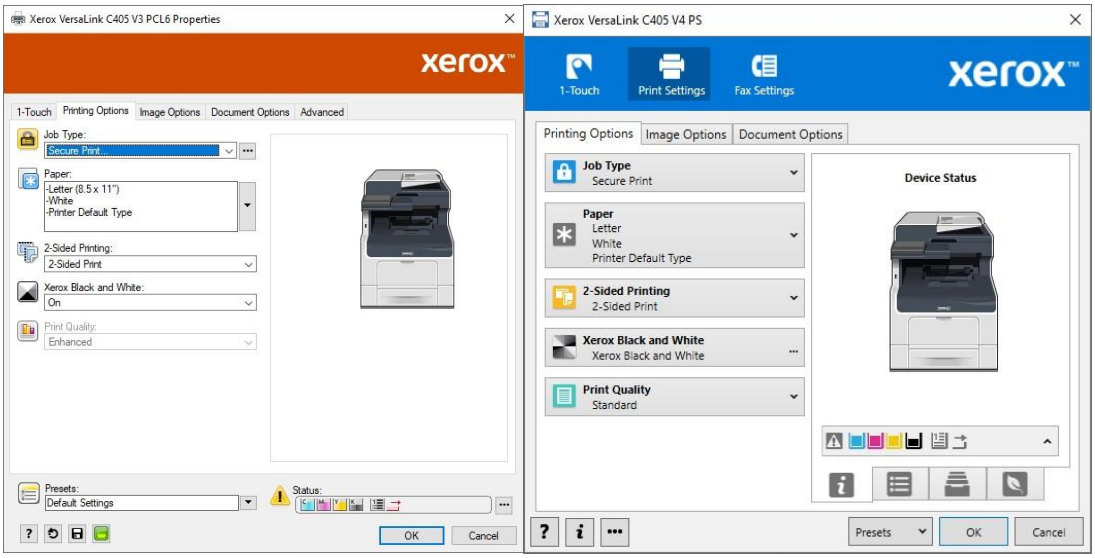
In this section we will demonstrate how to use the Print Configuration Tool to set the defaults for a few Xerox printers. In the tool we have created a CommonConfiguration.xml file with the following configuration settings.



- Here the highest priority configuration setting is Printer Queue ***Color**. This setting defaults any printer whose queue name ends in "*Color*" to Color.
- The next configuration setting is Printer Model **Xerox VersaLink***. This setting defaults any Xerox VersaLink® printer to Black & White and sets the default job type to Secure Print. Furthermore, since these are Enforced Defaults end users will not be able to change the default value in Printing Preferences.
- The * character in each configuration setting is a wildcard. It represents any number of characters. So, the string **Xerox VersaLink*** means "*Xerox VersaLink*" followed by any number of characters out to the maximum of 220. Effectively this means that the configuration setting "**Xerox VersaLink***" would apply to any Xerox VersaLink® printer model. For example, the *Xerox® VersaLink C405* and the *Xerox® VersaLink C7030*.

  As we will see, if a printer is both a *Xerox VersaLink®* model and has "*Color*" at the end of its queue name then both sets of defaults will be applied. Since ***Color** has a higher priority than **Xerox VersaLink*** the Color default setting will take precedence.

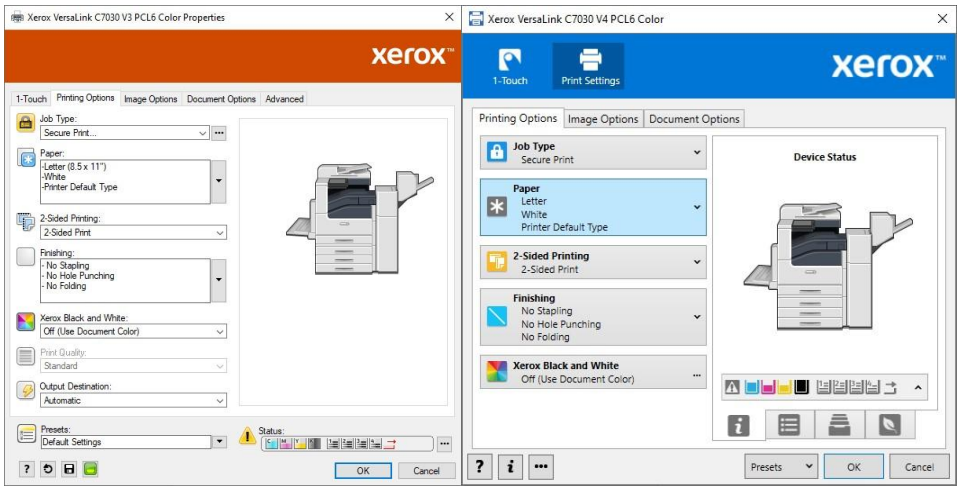
  Below are screenshots of what users would see when they print to Xerox® VersaLink C405 printers that read the CommonConfiguration.xml file detailed above. The printer on the left uses a Xerox V3 print driver. The printer on the right uses a XeroxV4 print driver.



The V3 printer is named "*Xerox VersaLink C405 V3 PCL6*". The V4 printer has the queue name "*Xerox VersaLink C405 V4 PS*".

- Both printers do not contain the word "*Color*" at the end of their queue name, so the ***Color** default is not applied.
- Both printers are Xerox VersaLink® models, so the **Xerox VersaLink*** enforced defaults are applied, setting Color to **Black and White** and Job Type to **Secure Print**.

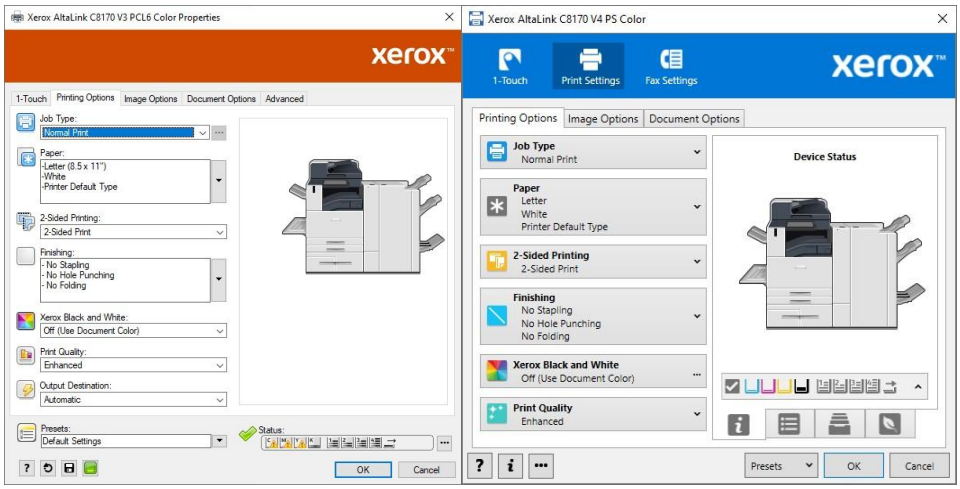
The next pair of screenshots display what users would see when printing to Xerox® Versalink C7030 printers with queue names ending with the word 'Color'. Both printers are reading the same CommonConfiguration.xml file.



The V3 printer is named "*Xerox VersaLink C7030 V3 PCL6 Color*". The V4 printer has the queue name "Xerox VersaLink C7030 V4 PCL6 Color".

- Both printers contain the word "*Color*" at the end of their queue name, so the ***Color** default is applied.
- Both printers are Xerox VersaLink® models, so the **Xerox VersaLink*** enforced defaults are also applied. This sets Job Type to **Secure Print**. However, the ***Color** default takes precedence, so drivers are not defaulted to **Black and White**.

Finally, here are screenshots of what users would see when printing with Xerox® AltaLink C8170 printers reading the same CommonConfiguration.xml file.

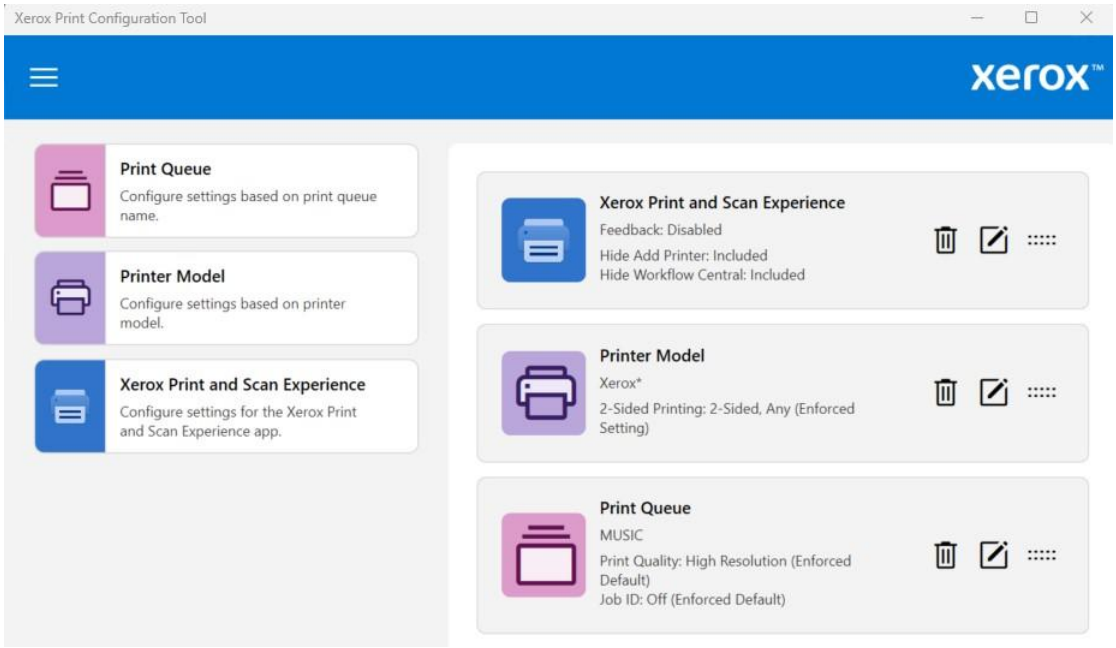


The V3 printer is named "*Xerox AltaLink C8170 V3 PCL6 Color*". The V4 printer has the queue name "*Xerox AltaLink C8170 V4 PS Color*".

- Both printers contain the word "*Color*" at the end of their queue name, so the ***Color** default is applied.
- Both printers are Xerox AltaLink® models, so the **Xerox VersaLink*** enforced defaults are not applied. As a result, the default Job Type stays on the factory default, **Normal Print**.

Print Configuration Defaults Example – IPP, Universal Print, and Xerox® Print and Scan Experience

In this section we will demonstrate how the Print Configuration tool can set defaults for IPP and Universal Print queues. We will also demonstrate how the tool can be used to configure the Xerox® Print and Scan Experience.

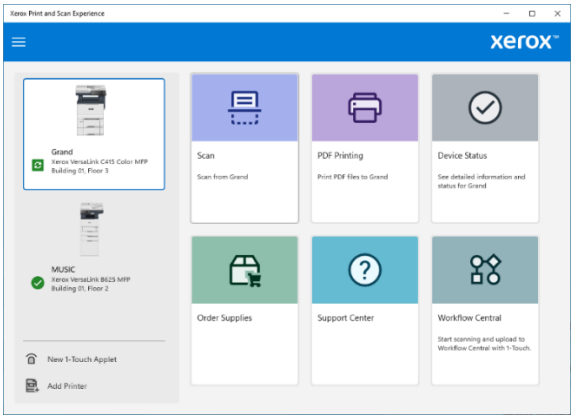


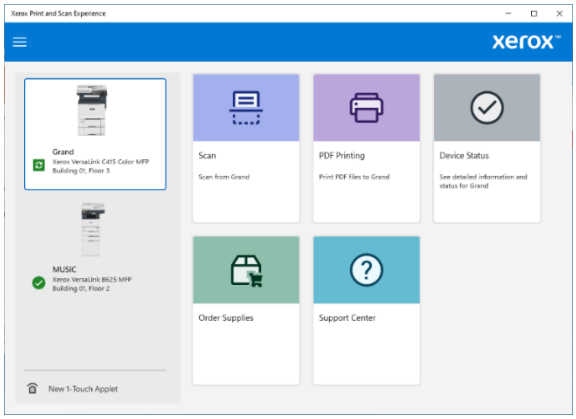
The Print Driver Configuration Tool is set up to enforce the following Settings in the Xerox® Print and Scan Experience App: **Xerox Workflow Central: Disabled** and **Add Printer: Disabled**.

The tool will set 2-Sided Printing to **2-Sided Any** for all printer models that begin with **"***Xerox".*

For a print queue named "*MUSIC"* the tool will **set Disable Job Id** and **Print Quality: High Resolution** as Enforced Defaults.

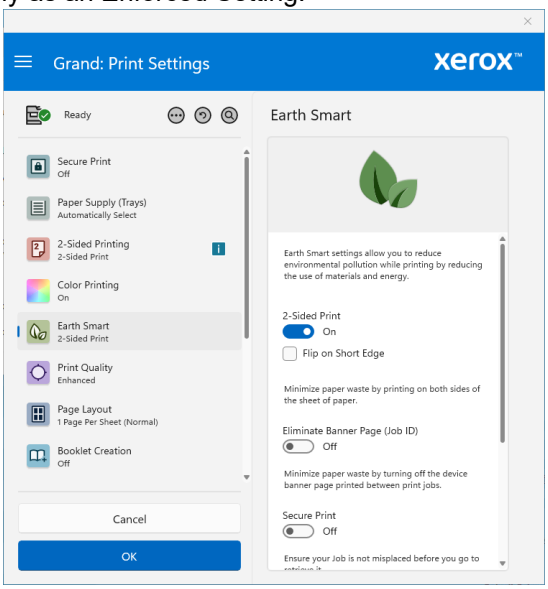
Here is what users will see when they open the Xerox® Print and Scan Experience before and after the configuration settings are applied.



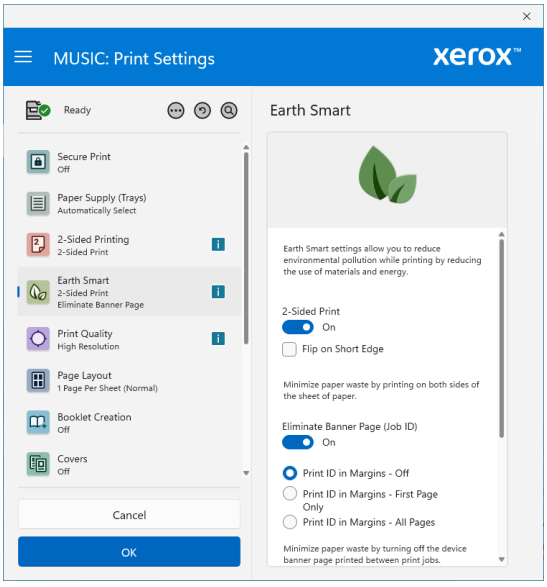


Xerox® Print and Scan Experience before configuration Xerox® Print and Scan Experience after configuration

Below are the settings a user will see when they print with the **Grand** printer, an IPP printer. Grand is a *Xerox VersaLink® C415 Color Multifunction Printer*. Since the printer model starts with "*Xerox*" it picks up 2-Sided Print Any as an Enforced Setting.



Below are the settings a user will see when they print with the **MUSIC** printer, a Universal Print printer. MUSIC is a *Xerox VersaLink® B625 Multifunction Printer*. Its model also starts with "*Xerox*", so it picks up the 2-Sided Print Any as an Enforced Setting. Music will also pick up the settings specified for the "*MUSIC*" queue, Disable Job ID and High Resolution as Enforced Defaults.



Common Questions Regarding CacheExpirationInMinutes

Xerox V3 Print Driver Questions

Question: Are print configuration defaults invoked every time the **Xerox V3** print driver properties is opened regardless of how the CacheExpirationInMinutes setting is configured?

Answer: The first time the Xerox V3 Print Driver reads the CommonConfiguration.xml file from the RepositoryUNCpath it will load all values from the file and update the cache. The driver will not read from the cache again until the Cache Expiration In Minutes value times out. If the configuration file is modified prior to the cache expiration, the cache is automatically updated.

A change was made to the way Xerox V3 print drivers version 5.1035.2 and higher read the common configuration file. These drivers will now check the file each time a user prints a document or accesses the print driver. (For example, opening Printing Preferences). If the driver detects the configuration file was modified, it will read it and apply the new defaults settings. Since version 5.1035.2 and up always check configuration file for changes, they do not need the optional CacheExpirationInMinutes registry value.

Question: Does the "timer" for CacheExpirationInMinutes restart each time the **Xerox V3** Print Driver is invoked?

Answer: No. Cache expiration time starts when the print dialog is invoked and stores this time in registry. If the cache is updated in between (due to an update to the configuration file), the expiration time is initialized again.

Question: Does print configuration ever run as a background process when configuring the **Xerox V3** Print Driver?

Answer: No.

Question: Why doesn't the **Xerox V3 Print Driver** change settings to default values when the user accesses Printer Properties and CacheExpirationInMinutes is set to 0?

Answer: Printer Properties hasn't changed to default values because the CommonConfiguration.xml file hasn't changed.

The Xerox V3 Print Driver will apply defaults from the configuration file under two conditions:

1. CacheExpirationInMinutes has expired
2. CommonConfiguration.xml has changed

When CacheExpirationInMinutes is set to 0 the Xerox V3 Print Driver always regards the cache as expired. Therefore, it checks CommonConfiguraiton.xml to see if it has changed since it was last read. If the configuration file has changed and the printer is one of the models or queues specified in the file, then the new defaults are applied to the printer. If CommonConfiguration.xml hasn't changed then no changes are made to Printer Properties.

Xerox V4, IPP, and Universal Print Queue Questions

Question: Does CacheExpirationInMinutes impact print configuration defaults when configuring a **Xerox V4** print drivers and the Xerox® Desktop Print Experience App?

Answer: The CacheExpirationInMinutes value has no effect on the Xerox V4 Print Drivers and Xerox® Desktop Print Experience App.

Question: Does print configuration ever run as a background process when configuring the **Xerox V4** Print Driver?

Answer: Yes, when exiting device properties due to a change in printer model or port. It only runs for a few seconds.

Question: Does CacheExpirationInMinutes impact print configuration defaults when configuring a Xerox IPP or Universal Print Queue?

Answer: The CacheExpirationInMinutes value has no effect on Xerox IPP or Universal Print queues and has no effect the Xerox® Print and Scan Experience App.