Xerox Print Driver Configuration Tool

Customer Tip

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Purpose

The Xerox Print Driver Configuration Tool provides systems administrators with a convenient way to visually manage driver configurations for Xerox printing devices without having to touch the underlying XML. The tool will create a Commonly Used Feature configuration file which will allow the administrator to override any default from within a pre-determined set of features and settings for all driver types (Traditional Print Driver, Global Print Driver, and Mobile Express Print Driver). This Commonly Used Feature set supports pre and post installation default updates.

Prerequisties/Assumptions

- The current version of the tool (v2.2.) requires Xerox Windows Print Driver version 5.246.xx or greater. You may confirm the version of XML tool you are using by clicking on the Xerox logo within the application. 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 4.0.30319 or greater.
- This document assumes that the user has successfully expanded the .zip file containing the Configuration Tool to a known location.

Software Availability

The software is available from
http://www.support.xerox.com/support/global-printer-driver/file-download/enus.html?contentId=116479

Defaults

Within the Xerox Print Driver Configuration Tool you will be selecting which features are configured and what the default selection is. For many of the features there will be one of three selections that you may choose to enforce the setting change. They are:

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

Standard defaults are feature settings defined as a recommended setting for the feature. These defaults may be overridden in the user context, however, changes cannot be made in the driver UI within the administrators context.

Enforced Defaults

Enforced settings allow an administrator to supply a default value that will not be allowed to be overridden by the user while in the user's context. The user however may change feature values while in the application context.

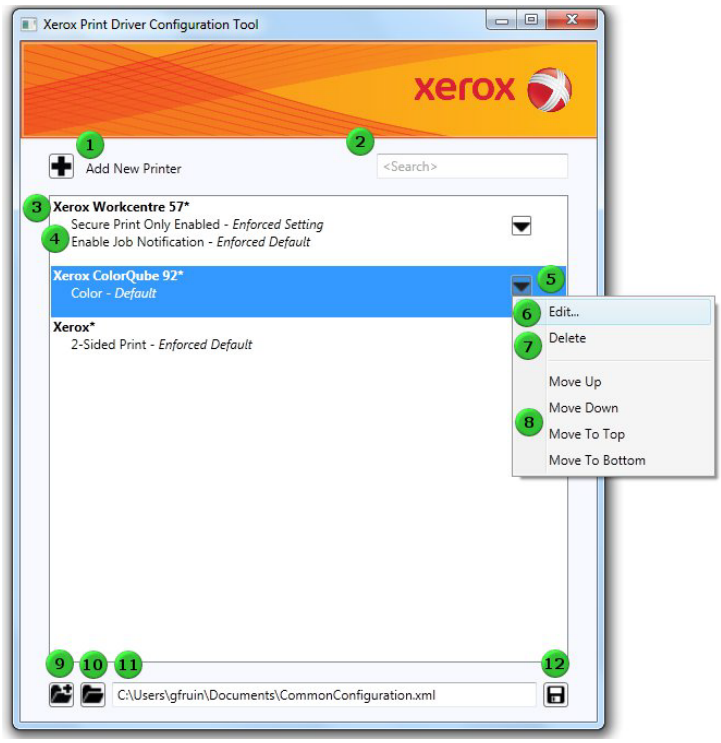
Caveat: Currently users are able to change the stapling feature within an application.

Enforced Settings

Enforced settings allow an administrator to supply a default value that will not be allowed to be overridden by the user, including within applications.

Basic Adding/Editing Configuration Settings

The following image shows various aspects of the configuration tool's main window.



1. **Add New Printer**

   Invokes the Properties dialog allowing the user to define one or more new printer models and their configuration settings. Newly created printer model configuration items will be added to the list as shown.

2. Search

   Allows a user to enter text for the purpose of filtering the list of model configurations to show only those model configurations that have the specified text. The search text will be matched against printer model names in the list as well as any of the settings text displayed in the list item. Search terms are separated by spaces. The filtering is performed when the <Enter> key is pressed within this text box. Matches are only identified if all search terms are present in the model configuration list item.

3. Printer Model Name

   This can be the name of a specific printer model or it may contain any number of wildcard characters * anywhere in the string to match multiple printer models with a similar name. The order of these printer model configurations in the list is significant. In the event that multiple printer model names in the list match an actual printer model in the driver and some configuration settings between those model names in the list conflict, the printer model configuration settings encountered first in the list will override any conflicting settings lower in the list. This only affects settings that conflict and not all configuration settings. For example, in the image above, there's "Xerox ColorQube 92*" and "Xerox*". Because they overlap, any settings that differ between the two would result in the "Xerox ColorQube 92*" settings taking effect. However, in this example there are no conflicting settings, so the setting for "2-Sided Print – Enforced Default" specified for "Xerox*" would be applied to a model matching "Xerox ColorQube 92*" in addition to the setting of "Color – Default" specified for "Xerox ColorQube 92*".

4. Configuration Settings

   These are the settings that are associated with the printer model name. To help alert users to conflicting settings between printer model configurations as describe in #3 above, settings that may not take affect due to conflicting settings in higher priority printer model configurations (*i.e. higher in the list*) will be gray rather than black. This is not shown in the image above. The user can choose to address this situation at their discretion by reordering items in the list, changing or adding printer model configurations, or doing nothing at all with the realization that some settings may not be applied in all cases. This isn't a foolproof detection system, but rather an aid to identify potential issues. Also, not all conflicting settings are necessarily undesired. Given the example above, if the user wants models matching "Xerox ColorQube 92*" to have different settings for 2-Sided Printing than all other models matching "Xerox*", then the setting "2-Sided Print – Enforced Default" would be grayed for "Xerox*".

5. Model Configuration Menu

   Contains selections allowing a user to edit, delete, or move items in the list

6. Edit

   While individual model configurations can be edited in the Properties dialog simply by double-clicking on an item in the list, this menu selection is the only way to edit multiple selected items simultaneously. It can be used for single selections as well. Multiple selection of items in the list is done by holding down the [Ctrl] key and selecting the desired model configurations. In the case of a multiple select edit, any features that differ between selected printer model configurations will remain unchanged unless the user explicitly changes those features. All unchanged features will remain at their original settings. See the Properties dialog below for additional details.

7. Delete

   This is used to permanently remove model configurations from the list. It can be done for single selections as well as multiple selections. Multiple selection of items in the list is done by holding down the [Ctrl] key and selecting the desired model configurations. The [Delete] key serves the same purpose.

8. Move Selections

   Allow a user to move printer model 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. This works only for single items and multiple select items as long as they are continuous (i.e. no unselected model configurations in between), otherwise these selections are disabled.

9. New

   Clears the current list of printer model configurations and prompts to save, if any changes have been made. It also clears the current file selection.

10. Load

    Loads an existing configuration file, replacing any existing printer model configurations in the list and prompts to save, if any changes have been made to the old content.

11. Configuration File Path

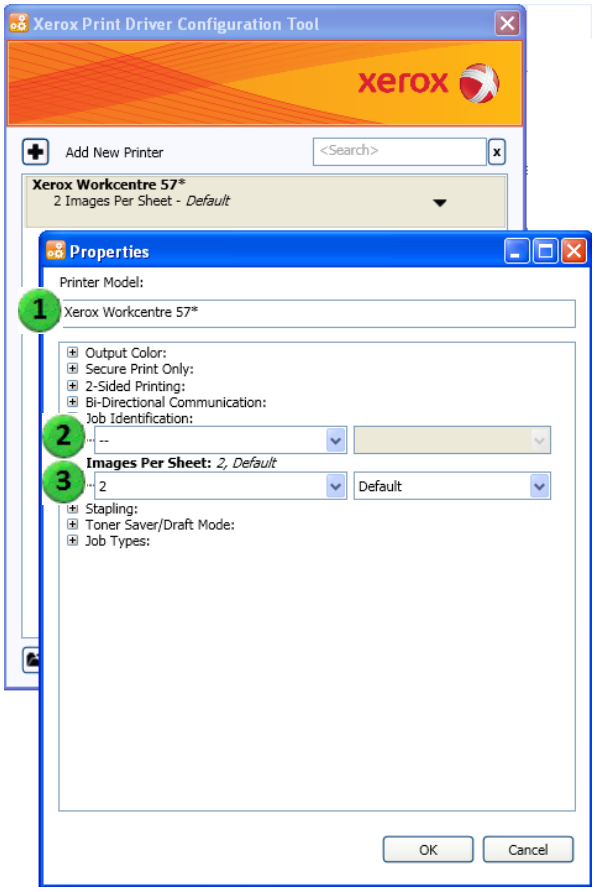
    Path of the most recently loaded/saved configuration file.

12. Save

    Persist the current list of printer model configurations to file. Until this is invoked, no changes are persisted. The default filename in the Save File dialog is "CommonConfiguration.xml". While it's possible to save the configuration information in a file with a different name, **the driver requires that the commonly used configuration file is named "CommonConfiguration.xml"**. To address the possible desire to define multiple configuration files, each file would need to reside in a different folder to satisfy the driver's file name requirement. However, this tool does not restrict the user's ability to name a file as they choose.

Properties Window

The following image shows the Properties dialog as it appears when the user has selected the "Add New Printer" button or has chosen a single printer model configuration to edit. Within this dialog the user has the ability to add/edit/remove configuration settings for a printer model.



1. Printer Model

   Upon opening the dialog, this text box initially shows the currently selected printer model name for an edit operation or is empty if creating a new printer model configuration. The user can rename an existing printer model and/or enter one or more new printer model names, separated by semicolons (;) or commas (,). If editing an existing printer model and the printer model is renamed in this dialog, the first printer model name in the text box is considered to be the model being edited. Any additional printer models specified after it will be treated as new and added to the bottom of the printer model configurations list on accepting the changes on this dialog. The edited printer model will retain its order in the printer model configurations list. For example, assume the original list contains configurations for "Xerox ColorQube 92*", "Xerox Phaser*", and "Xerox*" in that order. If the user selects "Xerox Phaser*" to edit and in the Properties dialog changes the name to "Xerox Phaser 4510" and adds "Xerox Phaser 5550", then by accepting the changes in the Properties dialog, the new list of configurations in order would be "Xerox ColorQube 92*", "Xerox Phaser 4510" (*newly renamed from Xerox Phaser**), "Xerox*", and "Xerox Phaser 5550" (*newly added*).

   ***Hint**: Specifying multiple printer model names in this field is a quick way in which to add a number of identical configurations at one time, or make copies of an existing printer model configuration with different printer model names.*

2. Settings Not Set

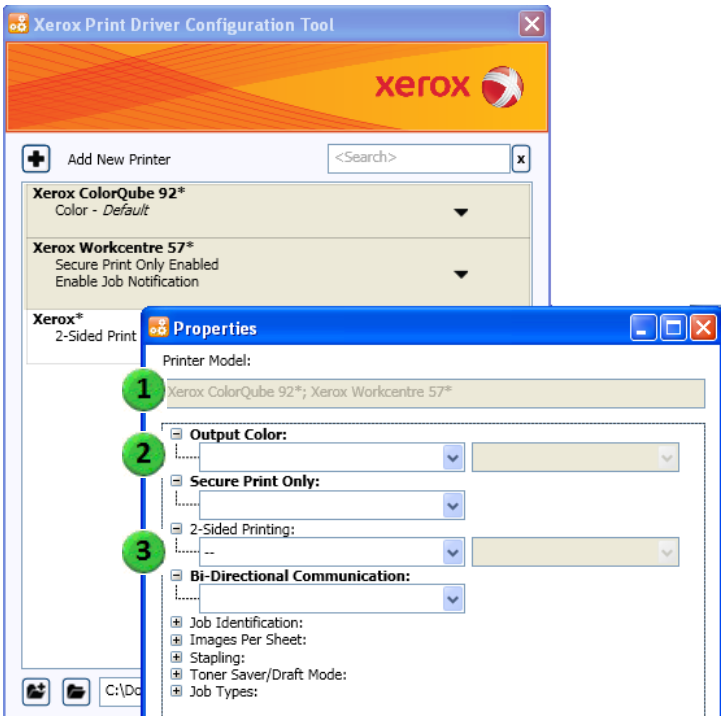
   Configuration settings that are not set are indicated by "--". In this example, Job Identification is not set.

3. Setting Restrictions

   The dropdown to the right of the configuration setting identifies the type of restriction: "Default", "Enforced Default" or "Enforced Setting". It should be noted that not all settings have a restriction type.

Editing Configuration Settings for Multiple Selected Printer Models

The following image shows the Properties dialog as it appears when the user has selected multiple printer models to edit. Within this dialog, the user can add/edit configuration settings that will affect all selected printer models.



1. Printer Model

When editing multiple selected printer model configurations, the selected printer models are displayed, but are read-only.

2. Settings That Differ from Selected Product Models

Settings that differ between selected printer models are displayed without a current selection value in the drop down. This signifies that each printer model configuration will retain its original value for this setting when accepting the changes in this dialog. This setting will not be updated for any of the selected printer model configurations. A user has the ability to set this setting with the intent that all selected printer model configurations will be set to the new value.

3. Settings Common With Selected Product Models

Settings that are the same between all selected printer model configurations will have the current value displayed. Any changes made to these settings will apply to all selected printer model configurations.

List of Commonly Used Features and Values

1. Output Color
   - Color
   - Black and White
2. Secure Print Only
   - Enabled
   - Disabled
3. 2-Sided Printing
   - 1-Sided Print
   - 2-Sided Print
   - 2-Sided Print, Flip on Short Edge
4. Bi-Directional Communication
   - Disable Job Notification
   - Enable Job Notification
   - Disable BiDi
5. Read Community Name
6. Write Community Name
7. Job Identification
   - Disable Job Id
   - Print ID on a Banner Sheet
   - Print ID in Margins - First Page Only
   - Print ID in Margins - All Pages
8. Images Per Sheet
   - 1
   - 2
   - 4
   - 6
   - 9
   - 16
9. Stapling
   - None
   - 1 Staple
10. Toner Saver/Draft Mode
    - Off
    - On
11. Job Type
    - Normal Print
    - Secure Print
    - Delay Print
    - Store File in Folder
    - Fax
    - Print and Save
    - Personal Print
    - Proof Print / Sample Set
    - Saved Job (Save Only)
    - Saved Job (Save and Print)
    - Print With
    - Hold Job
    - Saved Background Form
12. Allowed 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. Fax
       - Enabled
       - Disabled

    F. Print and Save
       - Enabled
       - Disabled

    G. Personal Print
       - Enabled
       - Disabled

    H. Proof Print / Sample Set
       - Enabled
       - Disabled

    I. Saved Job (Save Only)
       - Enabled
       - Disabled

    J. Saved Job (Save and Print)
       - Enabled
       - Disabled

    K. Print With
       - Enabled
       - Disabled

    L. Hold Job
       - Enabled
       - Disabled

    M. Saved Background Form
       - Enabled
       - Disabled

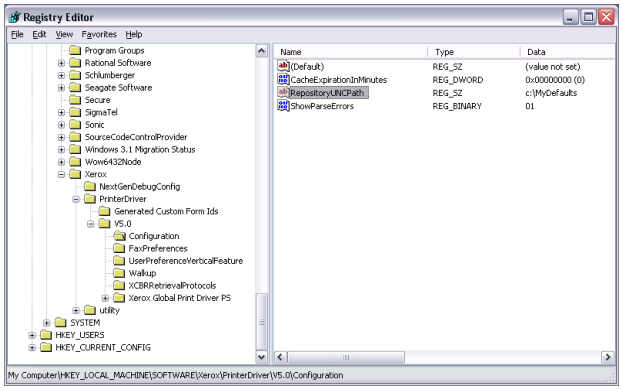
Creating Registry Entry

A registry entry, that specifies the location of the configuration file, is the key to allowing administrators to configure drivers without breaking the Microsoft WHQL certification. After the CommonConfiguration.xml configuration file is created, the administrator will place the file in a location of their choice and then set its location in a registry key on the client computer.

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

1. Open up your operating system's Registry Editor.
2. Go to the following location within the registry: [HKEY_LOCAL_MACHINE \Software\Xerox\PrinterDriver\V5.0\Configuration]
3. Within the Configuration folder create a new **String Value** with the following name: **RepositoryUNCPath**

   In the 'Value data' field enter the path to the file server or local pc containing the pre-configuration file(s). For example: **C:\MyDefaults** or **\\file-server\\driver_files**



4. Within the Configuration folder create a new **DWORD Value** with the name **CacheExpirationInMinutes**

   Keep the default value as what was entered when the entry was created in the previous step.

5. Error Checking (Optional): If error checking is desired, within the Configuration folder create a new **Binary Value** with the name **ShowParseErrors**

   The default value is 0 which will turn off error checking. Setting a value of 1 will cause a message box to appear if an error is found parsing the configuration file.

6. Exit the windows registry.

Additional Information

You can reach Xerox Customer Support at http://www.xerox.com or by calling Xerox Support in your country.

Xerox Customer Support welcomes feedback on all documentation - send feedback via e-mail to: USA.DSSC.Doc.Feedback@xerox.com.

Other Tips about Xerox multifunction devices are available at the following URL: http://www.office.xerox.com/support/dctips/dctips.html.