



TWAIN Driver Reference Guide

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Introduction

TWAIN is an industry standard or protocol for applications that interface with scanning devices. The TWAIN driver for Microsoft Windows 2000/XP provides scanning from WorkCentres/Pros to applications that are compliant with the TWAIN standard.

Installation Requirements

The following are required for installing TWAIN drivers:

- The workstation must be running the Microsoft Windows 2000 or XP Professional Operating System.
- You must possess Administrator rights on the workstation to install the driver.
- Domain and local user accounts are supported.



Note that some older WorkCentre Pros do not support domain accounts.

- The workstation must have TCP/IP enabled and be connected to the same Workgroup as the WorkCentre/Pro.
- Simple File Sharing must be disabled on the workstation to allow for proper device authentication.
- The WorkCentre/Pro must be connected, configured, and functioning as a network scanner with TCP/IP and HTTP enabled.
- The WorkCentre/Pro must be configured with the SNMP GET community string set to "public" or the TWAIN driver will not detect the device properly.
- For WorkCentres/Pros that support the Scan Template Management Service, you must enable this service on the device. SSL must be enabled on the device prior to enabling the Scan Template Management Service.



Windows XP Professional Service Pack 2 has Windows Firewall turned on by default or your site may have Windows Firewall enabled for security reasons. If Windows Firewall is enabled, you must set up Exceptions for print and file sharing to ensure that scanning with the TWAIN driver works properly.

Obtaining the Installation Files

The TWAIN driver is available on the Print and Fax Drivers CD provided with your Xerox product. It is also available on the Internet from:

www.xerox.com (Select **Products** > **Support and Drivers**).

Installing the TWAIN Driver

If the driver is not installed automatically upon download, follow the steps below.

1. Open the Windows Control Panel.
 - For Windows XP Category view, choose Printers and other Hardware.
 - For Windows XP Classic view, continue with step 2.
2. Open Scanners and Cameras. Add an imaging device for all Windows XP views.
For Windows 2000, click **Add**.
3. The Scanners and Camera Installation Wizard opens. Click **Next**.
4. Click **Have Disk** and browse to the location of the installation files.
5. Open the appropriate .inf file for the WorkCentre/Pro.
6. Select a WorkCentre/Pro TWAIN Scanner from the model list. Click **Next**.
For Windows 2000, choose a port type. Select "Automatic Port Select" and click **Next**.
7. Accept the default scanner name or enter a new name. Click **Next**.
8. Click **Finish**. Files are copied to the PC.
9. For Windows XP, the Hardware Update Wizard opens. Click **Next**.
For Windows 2000, a dialog opens.
10. Enter the Host Name or IP Address of the desired scanner. Click **Confirm**.
If you do not identify a specific scanner at this time, you can select one on the Administrator Options tab in driver properties.
11. For Windows XP, if prompted, select Yes to disable Simple File Sharing.
12. Click **Next** and then click **Finish** to complete the installation.
13. **For Windows 2000**, if prompted, reboot the workstation to finish the installation.

Configuring the TWAIN Driver

Once you install the driver, you must establish your user profile. You should be logged onto the PC with your personal Windows user account when you establish your profile. Common names such as Administrator or Guest cannot be used.

To set your profile and access driver properties:

1. Open the Windows Control Panel.
 - For Category view, choose Printers and other Hardware.
 - For Classic view or Windows 2000, continue with step 2.
2. Open Scanners and Cameras.
3. Right-click the scanning icon for the WorkCentre/Pro and choose Properties.
4. Select the Login Setup tab. This tab displays the default settings for your scan template. A scan template is automatically created on the device and is named based on your Windows logon name. The [template name](#) begins with an "@" symbol. Any existing templates of the same name will be overwritten.
 - [Optional Suffix](#): If you would like an identifying suffix added to the template name, type it in the Optional Template Extension field.
5. Select the Scan Options tab and select default settings for your scan template. Any of these settings can be overridden directly at the WorkCentre/Pro.
 - [Output Color](#): Select whether you want scanned documents saved in color or black and white.
 - [Document Format](#): Select the file format in which your scanned documents should be saved.
 - JPG—A graphic format ideal for complex pictures or photographs. Each document page becomes a separate JPG image. (Color scanners only.)
 - TIFF—A file format for bitmap images; simulates grayscale shading. Each document page becomes a separate TIFF image.
 - Multi-Page TIFF—TIFF file output in which all pages of a document are scanned into a single file.
 - PDF—A universal file format that preserves all fonts, formatting, graphics, and color in a source document regardless of the application and platform used to create it. All pages in the document are saved in a single file.
 - [Resolution](#): The resolution setting affects the amount of detail reproduced on scanned images.
 - [Sides To Scan](#): Select whether your original document is one-sided or two-sided.

- [Original Size](#): If you scan a document from the platen glass rather than the document feeder, you can specify a particular scan size. This enables you to scan only a specific portion of a document page.
 - [Delete Image After Import](#): If this option is checked, the scanned image is deleted and is no longer visible once it has been imported into an application.
6. If you want to scan with a different device and have Administrator rights on the PC, click the Administrator Options tab.

Note that you can only change the host name if one was not specified during the installation. Once a valid host name is entered, changes are not permitted.

Enter the host name or the IP address of the device you want to configure. Click **Apply** or **OK** when finished. All templates created from that PC will be updated and configured to work with the new device.

Scanning a Document

To scan using the driver:

1. Your PC must be on and you must be logged on using the same user account you used when you created your user profile.
2. At the device, select All Services > Network Scanning, then select the template.
3. If prompted at the WorkCentre/Pro touch screen, enter the password for your Windows account.
4. Import the scanned image into an application using an import or insert option.

Processing Scanned Images

Scanned documents are named based on the template used and a numbering sequence (for example, Doc001, Doc002).

When you import a scanned image into an application, the scanned image is placed and is viewable in the Xerox Scan Utility window of the TWAIN driver interface. Property information about a scanned image appears when the cursor is hovered over an image.

The following options are available for the scanned images:

Refresh—updates the scanned images which appear in the window.

Retrieve—imports a scanned image into the application.

Delete—removes a scanned image from the window.

[Scanning Using an Application's Interface](#)

Scanning Using an Application's Interface

You can scan and import a document into an application that does not use the Xerox Scan Utility interface or supplies its own scan user interface.

1 Some steps of this procedure that pertain to the import options may vary by application.

To scan a document into an application:

1. Create a user template on the WorkCentre/Pro from which you intend to scan by performing the steps in the [Configuring the TWAIN Driver](#) procedure.
2. At the PC, open the application you are using to import the scan document.
3. From the application interface, select an option to import from a scanner.
4. Select the WorkCentre/Pro (that has your scan template) from which you are scanning.
5. Select scanning options and start the scan from the application interface. The application will pause to import the scan image until you scan the document at the device. The TWAIN driver generates and uploads a template to the specified device. The device template that you created at the device (step 1) is overwritten with the scanning options selected in the application.
6. At the WorkCentre/Pro control panel, select All Services > Network Scanning, then select the template. The format for the template name is `<username>_<domain or PC name>_<suffix>`.
7. If prompted at the WorkCentre/Pro touch screen, enter the password for your Windows account.
8. Scan your document without overriding any scan settings. The document is imported into the application.

i Note that if you override scan settings at the WorkCentre/Pro, the scan document import into the application may fail.

Scanning Options

About

Click **About** to view version information for the driver.

Template Name

A default template is automatically created when you access the Login Setup tab. This template is used when you scan to your computer from the device.

You can add a suffix to the template name to help identify it by typing a suffix in the field.

Output Color

Select whether you want your scanned documents saved in color or black and white.

Sides To Scan

Select whether your original document is one-sided or two-sided. This ensures that one or both sides of your document are scanned.

Document Format

Select the file format in which your scanned documents should be saved. Documents are named using a date and time stamp.

JPG—A graphic format ideal for complex pictures or photographs. Each document page becomes a separate JPG image. (Available with color scanners only.)

TIFF—A file format for bitmap images. Color variances are simulated with grayscale shading. Each document page becomes a separate TIFF image.

Multi-Page TIFF—TIFF file output in which all pages of a document are scanned into a single file.

PDF—Saves each page of the scanned document in a single, multiple-page PDF file. Scanned documents saved as PDF images cannot be imported into applications. Be sure to save PDF documents to a specific storage location.

Original Size

If you scan a document from the platen glass rather than the document feeder, you can specify a particular scan size. This enables you to scan only a specific portion of a document page. You can override any settings at the scanner. Use this field to specify the default option for your scan template.

Resolution

The resolution setting affects the amount of detail reproduced on scanned images. Resolution is measured in dots per inch (dpi). Therefore, a Best setting renders images using 600 dots (pixels) per every inch of the image. Fair resolution depicts less detail.

Delete Image After Import

Select this option to remove the scanned image in the Xerox Scan Utility window of the TWAIN driver interface after the image has been imported into an application.

Device/Administrator Options

Change Configured Device for Scanning

 **You must possess Administrator rights on your PC to configure a new device. Each installation is specific to one device. You can only change the host name if one was not specified during the installation. Once a valid host name is entered, changes are not permitted.**

Click the Administrator Options tab to specify a different WorkCentre/Pro to use for scanning. You will be required to enter the host name or IP Address of the new device. Once a device is listed, it is available for scanning to your PC.