

# Xerox® Versant® 3100 Press

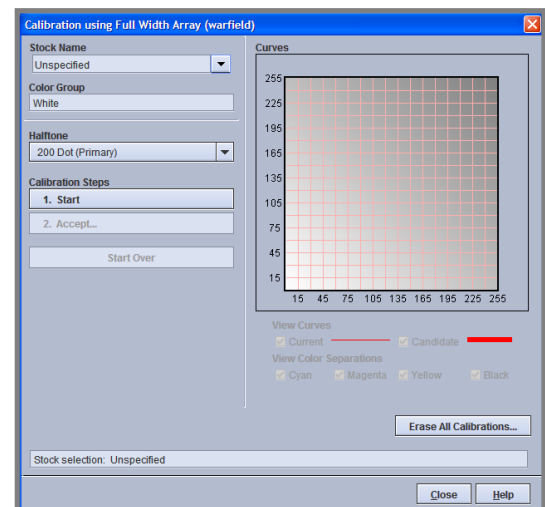
## Calibration & Profiling

### on FreeFlow® Print Server

## Calibrating the Print Server

### To calibrate using the Full Width Array:

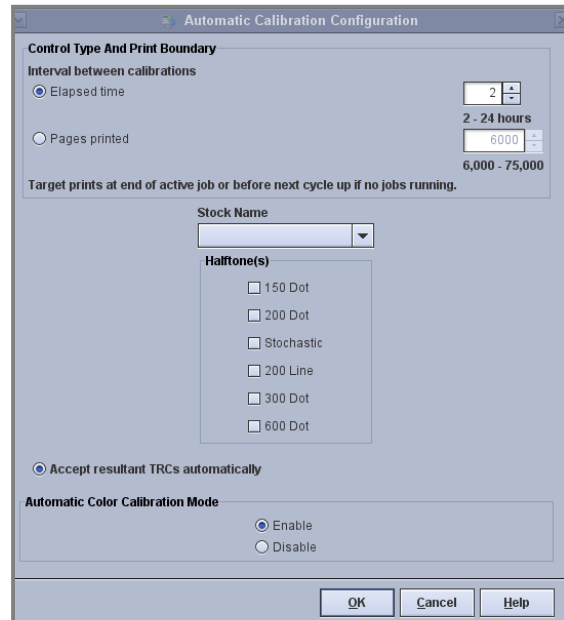
1. If not already loaded in a tray, load the paper that you want to use for calibration. The paper should be one that you use most often, or a centerline paper. If you changed the stock in the tray, program the new stock by opening the tray in the Stock Library Manager. Then select or create the stock you loaded at the press.
2. Before performing a print server calibration, first run the Density Uniformity Adjustment from the Tools menu on the print engine. This best practice ensures that the density settings are optimum for the press.
3. Log onto the print server as System Administrator.
4. From the *Color* drop-down menu at the FreeFlow Print Server, select **Calibration Preferences**. Then select the **Full Width Array** radio button for the *Calibration Instrument*. Click **OK** to accept the changes and close the Preferences window.
5. From the *Color* drop-down menu select **Calibration** (or click the Calibration shortcut icon if you have one). The *Calibration using Full Width Array* window opens.
6. From the *Stock Name* field, select the **loaded stock** that you want to calibrate on.
7. From the *Halftone* drop-down menu, select the **line screening** you want to use. This is generally 200 Dot, which is the default.
8. Click **1. Start**.
9. A dialog box opens to give you options of when to print calibration targets. Select **Now**.
10. You will need to wait several minutes, while the print server prints and measures the calibration targets. When the process completes, the calculation results display on a graph. This graph shows the mathematical curves that will be used to adjust your printer's data.
11. Click **2. Accept** to apply the new calibration data, and **Now** to the window that opens.
12. Click **OK** on the dialog box that reads: *Calibration data has been saved*.
13. Click **Close** and then **Yes** to exit the calibration function.



## Setting up Automatic Calibration for the Print Server

To set calibration to run automatically:

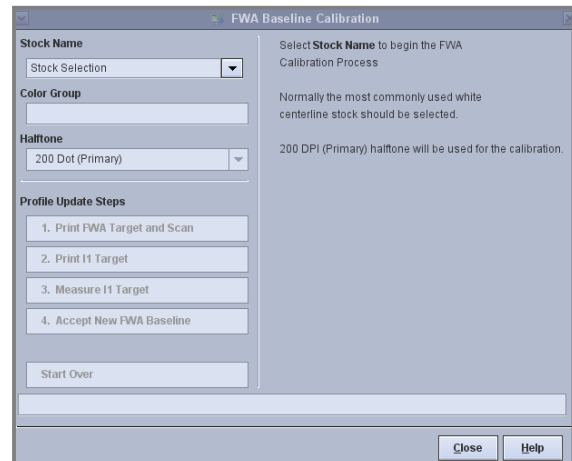
1. Select **Calibration** from the Color menu.
2. At the bottom of the window, select the **Configure Auto Calibration** button.
3. Select the radio button for either **Elapsed time** or **Pages printed**. If you elect to use time, set a number of hours from 2 to 24. This will be the time between automatic calibrations. If you elect to use pages, enter the number of pages printed before each automatic calibration.
4. For Stock Name, select the **loaded stock** that you want to use for the calibrations.
5. Select the **Halftone(s)** that you want to use for the calibrations.
6. Select the radio button for **Accept resultant TRCs automatically** if you want the process to be fully automatic. Otherwise, if not selected, a widow will open after each calibration to show the proposed calibration adjustments in graph form and ask the operator to accept or not accept the calibration results.
7. Click **OK** to initiate the setup and close the window.



## Calibrating the Full Width Array

To perform a baseline calibration for the FWA using a spectrophotometer:

1. If not already loaded in a tray, load the paper that you want to use for calibration. The paper should be one that you use most often, or a centerline paper. If you changed the stock in the tray, program the new stock by selecting the tray in the Stock Library Manager, and then select or create the stock.
2. Before performing a FWA baseline calibration, first run the Density Uniformity Adjustment from the Tools menu on the print engine. This best practice ensures that the density settings are optimum for the press.
3. Log on to the print server as System Administrator.
4. From the *Color* drop-down menu select **FWA Baseline Calibration**.  
The FWA Baseline Calibration window opens.
5. From the *Stock Name* field, select the **loaded stock** that you want to calibrate on.  
The Color Group and Halftone fields will fill in automatically.
6. Click **1. Print FWA Target and Scan**.  
A message window opens to tell you to discard the targets; they cannot be used for the i1 measurements. The FWA has measured these targets.
7. Click **OK** to the message.
8. When the **2. Print i1 Target** button becomes available, select it.

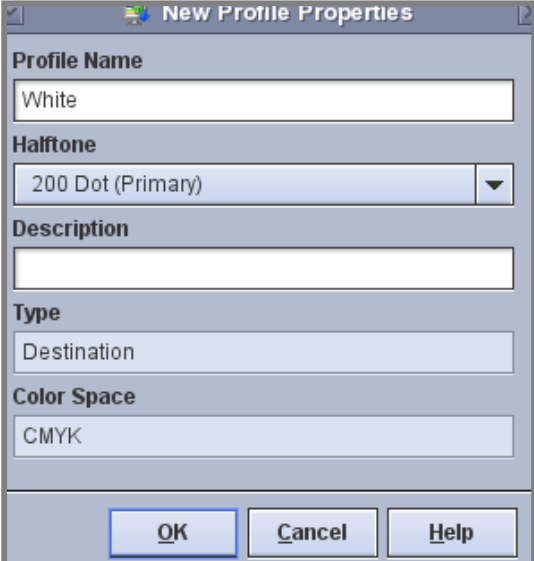


9. Click **Now** and **OK** to the Print Boundary message.  
A second set of targets now print.
  10. Click **3 Measure i1 Target**.
  11. Follow the steps on the screen:
    - a. Verify that the cable is connected.
    - b. Set the device on its cradle.
    - c. Press the **Measure** button and hold in for two seconds.
    - d. Click **Next** when the device has been successfully calibrated.
    - e. Place the printed target onto the backer board.
    - f. Place the target on the measuring guide and align the cutout with Strip 1.
    - g. Click **Next**.
    - h. Set the measuring device over the white area on the left or right end of Strip 1.
    - i. Press the **Measure** button and **hold it in** until the light is activated (two seconds).
    - j. Continue to hold the button in as you **slide the device slowly across Strip 1**, and reach the white area at the end of the strip. Then release the button.
    - k. Repeat steps h, i, and j for all 33 strips.  
After scanning the 33 strips, a "Please wait (about a minute)... Creating color profile" message displays.
  12. When the message "Profile creation complete" displays, click **OK**.
  13. Click **Accept New FWA Baseline**.
  14. Click **Cancel** and then **Yes** to exit the calibration function.
- Now that you performed a Baseline Calibration for the FWA, you must update your destination profiles. This is important to implementing the new FWA baseline calibration settings. Continue with these steps:
15. Leave the Associations window open and select **Calibration Preferences** from the Color drop-down menu.
  16. Select the **Full Width Array** radio button.
  17. Click **OK**.
  18. On the Associations window, right-click the same stock that you used to calibrate the FWA, and select **Color Profile > Update Halftone Profile**.
  19. Click **1. Setup**.  
The Setup Profile window opens. You can see in the Profile Name area the name of the profile that you are updating. Note what this name is, because you will need to check later to see if additional profiles exist on your system.
  20. Accept the default entry for **Halftone**.
  21. Under Options, select **Apply to All Halftones**.
  22. Click **OK**.
  23. Click **2. Start** and then **OK** to the message that opens.  
The profiling process begins. The press prints test targets, measures them and updates the profile based on the measurements. When complete the Finish button becomes available.
  24. Click **Finish**.
  25. On the Associations window, use the bottom scroll bar to view the last column to the right – the **Profile Name** column. If you see other profiles associated with the listed stocks, you need to update these profiles as you did for the stock you just updated. Repeat Steps 18 – 25 to update any additional profiles, if they exist. Click **Close** to the Associations window when finished.

## Creating Profiles with the Full Width Array

### To create a new destination profile:

1. Load the stock for which you want to create a profile in a paper tray. If you use US Letter or A4 size paper, it must be loaded long edge feed (LEF).
2. At the Stock Library Manager, program the paper tray for the stock that you loaded.
3. At the print server, log on as System Administrator.
4. Before creating a profile, first run the Density Uniformity Adjustment from the Tools menu on the print engine. This best practice ensures that the density settings are optimum for the press.
5. From the *Color* drop-down menu at the FreeFlow Print Server, select **Calibration Preferences**. Then select the **Full Width Array** radio button for the *Calibration Instrument*. This should be selected by default, but it may have been changed by the last person who calibrated. Selecting this preference changes the procedures on the Calibration screen.
6. Click **OK** to accept the changes and close the Preferences window.
7. From the *Color* drop-down menu select **Associations**. The Associations window opens. This window provides a list of stocks that have been programmed as Temporary or stocks in the Stock Library.
8. Locate the stock that you loaded to be used for the profile. Click the **<Trays>** column twice to sort by tray to find the stocks loaded. The loaded stock will show the tray that you loaded it in next to its name.
9. Right-click on the stock and select **Color Profile > New Profile Family**. The New Profile Family window opens.
10. Click **1. Setup**. The New Profile Properties window opens.
11. For Profile Name, enter a meaningful **name for the profile** so that it can later be recognized for selection. For example, a part number, paper type, paper color or tint and date.
12. Select a **Halftone** from the drop-down menu. 200 Dot is the default.
13. Optionally enter a **Description** for the profile, such as stock the profile can be used with.
14. Under Options, you can **Apply to All Halftones** or **Apply Only to Selected Halftone**.
15. Click **OK**.
16. Click **2. Start** and then **OK** to the message that opens. The profiling process begins. The press prints test targets, measures them and creates a profile based on the measurements. When complete the Finish button becomes available.
17. Click **Finish** and **Yes** to “Exit Profile Mode”.
18. Verify that your new profile exists on the server. From the Color drop-down menu, select Color Profiles. The newly created profile will be listed with the name you provided.



The screenshot shows the 'New Profile Properties' dialog box. It has a title bar with a standard window icon and a question mark icon. The dialog contains several fields and a dropdown menu. The 'Profile Name' field is a text box containing the word 'White'. The 'Halftone' field is a dropdown menu currently showing '200 Dot (Primary)'. The 'Description' field is a text box that is empty. The 'Type' field is a text box containing the word 'Destination'. The 'Color Space' field is a text box containing the letters 'CMYK'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.