HP PageWide XL 3920, 4200, 4700, 5200, 8200 Printer Supplement

This document bridges the gap between the Fiery XF documentation and the PageWide XL 3920, 4200, 4700, 5200, 8200 documentation.

Refer to the Installation section before you connect the printer to a computer. The Operation section has information on profile generation and everyday use. Please refer also to the documentation shipped with your printer, which you can also get in below websites.

Introductory information

User guide

Printer Configuration:

Fiery XF Model	Description
HP PageWide XL 3920/4200/4700/5200 RGB	• 4 HP PageWide Inks (Cyan, Magenta, Yellow, Black) • Variants: 1. 40 inch 4 rolls.
HP PageWide XL 8200 RGB	• 4 HP PageWide Inks (Cyan, Magenta, Yellow, Black) • Variants: 1. 40 inch 6 rolls.

System requirements are as follows:

- The driver is only available for Windows.
- Products based on Fiery XF technology: Fiery XF 7.3.2
- As license, you need XF Printer Option Group 6
- The following outgoing TCP ports shall not be blocked by a firewall: 80, 8085, 8086, 8090, 9100. Windows blocks most ports if it considers a network as 'Public'.

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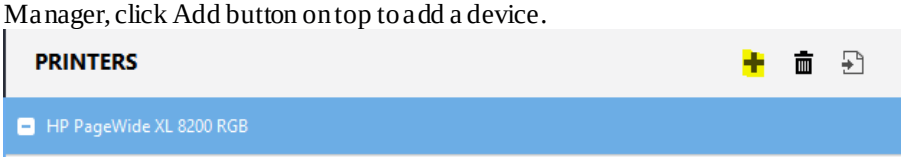
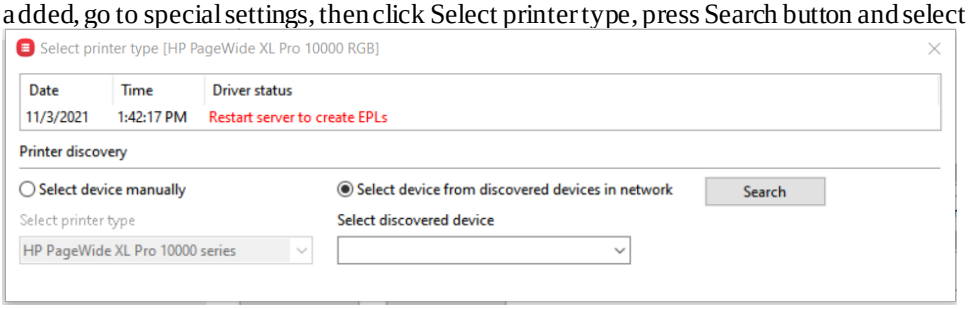
When you configure the XF output device the first time:

1. Make sure the printer is on.

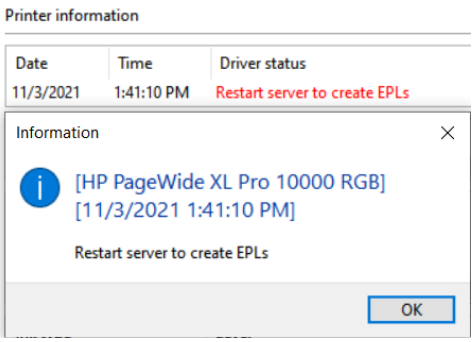
2. In Fiery Command WorkStation, please do the following: Right click on server, click Server Manager. In Server Manager, click Add button on top to add a device.



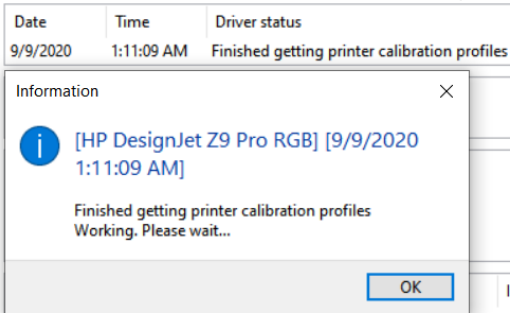
3. Configure IP address and click finish. Alternatively, enter any IP address other than 127.0.0.1 and when device is added, go to special settings, then click Select printer type, press Search button and select one device from list.



4. In special settings tab, wait for driver status to change to "Restart server to create EPLs" and/or a popup. Then restart the server.



5. After restart, wait for driver status to change to.



6. Select the epl you want. Print anything. It should print without fail.
7. Now your Fiery XF system is ready.

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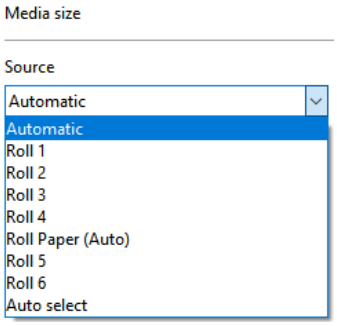
Media source setup:

Following options are available for media source for a double roll model.



Roll1, Roll2, … etc are self-explanatory.

- Automatic: This media source is default. The driver takes media from the roll/tray in the printer that has same media loaded as that used to process the job.
- Roll Paper(Auto): Using this media source will allow the printer to choose the best fit media from any roll.
- Auto select: Using this media source will allow the printer to choose the best fit media from any media source.

When is server restart required:

1. When profiles are synchronized using the Download button and you need to use Color Tools, please restart the server. Although EPLs get created and you can print using those EPLs, if you want to do a new Calibration using Color Tools, then Color Tools needs server to restart to use the new media information. See details about Download button in special settings section.

Device Connection and Configuration:

The XF printer driver automatically retrieves information per configured IP address. For all bidirectional data acquired from the printer, there is a backup file in the XF server's data folder. The names of these backup files follow the scheme HpPrinter_Type_IPaddress_.xml, e.g. HpPrinter_MediaInfo_10.210.116.45_.xml.

The XF printer driver creates the XF Calibration sets in the folder, e.g.

"C:\ProgramData\EFI\EFI Media Profiles\Automatic_10.210.116.45" and writes all output into this folder.

When you upgrade the printer or make changes to media information in printer.

- Please go to special settings tab, click on Download button under Profile synchronization. All media information and profiles will be downloaded and new XF calibration sets will be created.
- Wait a few minutes for the downloading of profiles and re-creation of calibration sets. Observe Driver Status section in special settings tab to check when all profiles have been downloaded and XF calibration sets created.No need to restart server.
- You can start using new profiles immediately.

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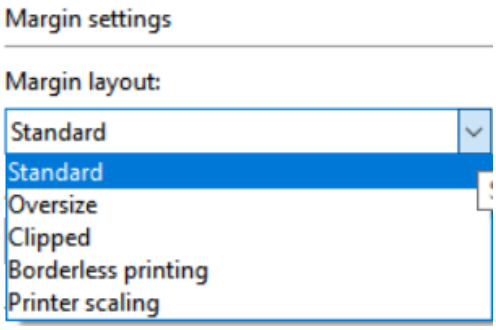
Margin settings:

Margins will only be applied when margin layout is set to Standard under Margin settings in special settings tab.



- **Standard layout:** This mode prints with the physical margin of the printer.

  Below are the supported margins:

Sheet Margins (mm)		Roll Margins (mm)	
Top	5	Top	3
Bottom	17	Bottom	3
Left	5	Left	3
Right	5	Right	3

- **Oversize:** Image is printed on a page slightly larger than the size that you have selected. If you cut off the margins, the remaining page is the size you selected, with no margins between your image and the edges of the paper. If image size is A4, loaded media on printer should be (A4 + 3-5 mm extra on all sides).
- **Clipped:** Image is printed on a page equal to the size that you have selected, but image needs to have some borders around (3 mm). The printer uses the border for its margins, and you get a page size that is equal to what was selected in the driver. If image size is A4, loaded media size on printer should be A4.
- **Borderless printing:** Using this option will preserve scale, content and paper size but may add edge white stripes. This option may not be cut properly in printer and there will be marginal white strips on the edges. To get cutting accuracy, Scaling in Printer option should be used.
- **Printer scaling:** Using this option will preserve paper size and will not add edge white stripes but scale and content will not be preserved.

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Media Type:

The media type is the most important key to several important settings. The list of available media types comes from the latest media information that the XF printer driver has acquired from the printer.

If the media type of a print job does not match the media type loaded in the printer, the XF printer driver will refuse printing. This is a safety measure to avoid damaging the medium.

Resolutions:

Following rendering resolutions are supported for these printers.

1. 150 x 150.
2. 200 x 200.
3. 300 x 300.
4. 600 x 600.

These resolutions are contone data resolutions and affect only the level of detail. The actual print resolution is higher.

Print Mode:

Print mode is the key to select print quality settings.

The print mode names in these drivers are formatted as follows.

(Quality)|P (PassCount)|Sp (Speed)|Bp (Bit per pixel)|(Direction)|ID (Ink density)

e.g. here is one print mode.

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Special settings:

The special settings tab in these drivers have options laid out as follows. All settings above Cut settings can only be viewed in Server Manager and not in Job editor.

- Printer information: This section has four sub sections. This section is used to display dynamic information regarding driver, printer, ink and alerts. The information is updated automatically and refreshing the tab is not required.
  1. Driver status: This area shows information about current and recent activities in driver. The time stamp shows the time at which last activity happened. This is useful to see when profiles have been downloaded, if media information changed, if given commands were successful and other status messages.

  2. Printer status: This area shows the information about current status of the connected printer.

  3. Alerts: This area shows last alert as coming from the printer with a time stamp of the alert when it came.

  4. Ink status: This area shows information about current ink availability in the printer with the corresponding amount left of ink in percentage.

  5. Media details: This section shows information about loaded media on the printer.

  6. Printer configuration: This area shows information about the current configuration of the printer.

- Profile synchronization: This section has two buttons. If driver is busy while synchronization is requested, then a message will pop up saying "Driver is busy. Try again after some time.".
  1. The Upload button will take one XF calibration set and one icc profile and uploads the icc profile to the printer using the settings in the XF calibration profile. This is useful in case of portable icc profiles creation. More details can be found below in creating ICC profiles section.

  2. The Download button is used to get all media information and profiles from printer and then create XF calibration sets. This is useful whenever media information or printer configuration has been changed and printer and RIP need to be synchronized.

- Printer discovery: This section has two options:
  1. Select device manually: This list holds all the supported variants of selected device. This option is useful when IP address of printer is known and is already set in Media tab. Then selecting one of the supported variants will load correct media sizes and tray, rolls for that variant on next server restart. By default, the variant with highest number of trays, rolls and size is selected.

  2. Select device from discovered devices in network: This option is useful when server is connected to the same network as the printer. Then pressing the Search button will find and list all the available models with their IP address in the network. Select one of listed printers to use it to print.

- Job settings: This section has four options.
  1. Job status and accounting: When this option is on, the job sent will be tracked for the status in the printer and job status will only show printed when job is finished printing in the printer. The status of job can be seen in warning section in Job editor.
     This option also allows for job accounting information to be collected and can be accessed from CWS when a job is right clicked and "Job Details" option is clicked.
     When this option is off, neither job status will be tracked, nor job accounting information will be collected.

  2. Validate job media type and size: When this option is on, the media type and size of job will be matched with that loaded in printer, and job will error out if there is any mismatch in media type or job media size is larger than that loaded in printer.

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3. RIP and send to printer without writing to spool file: This option when on, will rip the data and send the same data directly to printer for printing, using HP sdk. This option should be enabled only for debugging purpose. Enabling this option is not recommended in non-debugging scenarios.

4. Write sdk output to file: This option when on and job is processed, driver will write raw data to a file in "C:\ProgramData\EFI\EFI XF\Server\Output" folder. The file name will be same as job name and have extension ".rs". This file can then be sent to printer directly for printing using HP utility.This option should only be used for debugging, Fiery XF doesn't print any job when this option is on.

- Cut: There is only a horizontal cutter.

- Rendering intents: The settings here allow to select the print color render mode and color space.
  1. Print render mode: This option allows selection of the actual colors in which to print.
  2. Color space: This option allows selecting which color space to use while rendering the input. Device calibrated means RIP will handle the color management and printer will only print the data sent. Standard RGB means printer expects the rendering to be done in sRGB color space and will handle data accordingly. It is recommended to use Device calibrated RGB with Fiery XF.

- Enhancement settings: These settings allow selecting enhancement options for print area.

- Log level: This setting can be used to change log level of sdk and rip. Since this is a global setting, log level can be changed from any printer. Logs are generated in "C:\ProgramData\EFI\EFI XF\Server\Log"

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Creating Profiles:

1. Before you start.

Media manufacturers sell specific media for HP PageWide XL printers. Please refer to the printer's operation manual for useful links.

Drying and curing depends on the overall amount of ink, especially in fast print modes.

Before you start make sure you have done the usual image quality maintenance tasks.

2. Create a custom media.

In the printer, you can create a new media profile entry for your medium. You can also clone an existing entry and modify it.

Once you have created the custom media and print modes, please do the following

   1. Press the Download button in Profile synchronization. All new profiles will be downloaded, and all old profiles will be deleted.
   2. You can use the profiles immediately. No need to restart.

3. Create the ICC profile.

There are several ways to create the ICC profile.

- Create a portable ICC profile on the printer.

  You can create the ICC profile on the printer during the creation of the media profile entry as described above. The ICC profile is a property of the media that is part of the media profile entry.

- Create an ICC using external spectrophotometer.

  Same as above only, select the measuring device from the Measuring device list. Once print is done, start the measurement manually, and it8 file will be created at the end of measurement. Then create media profile.

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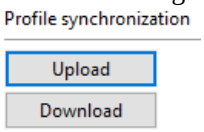
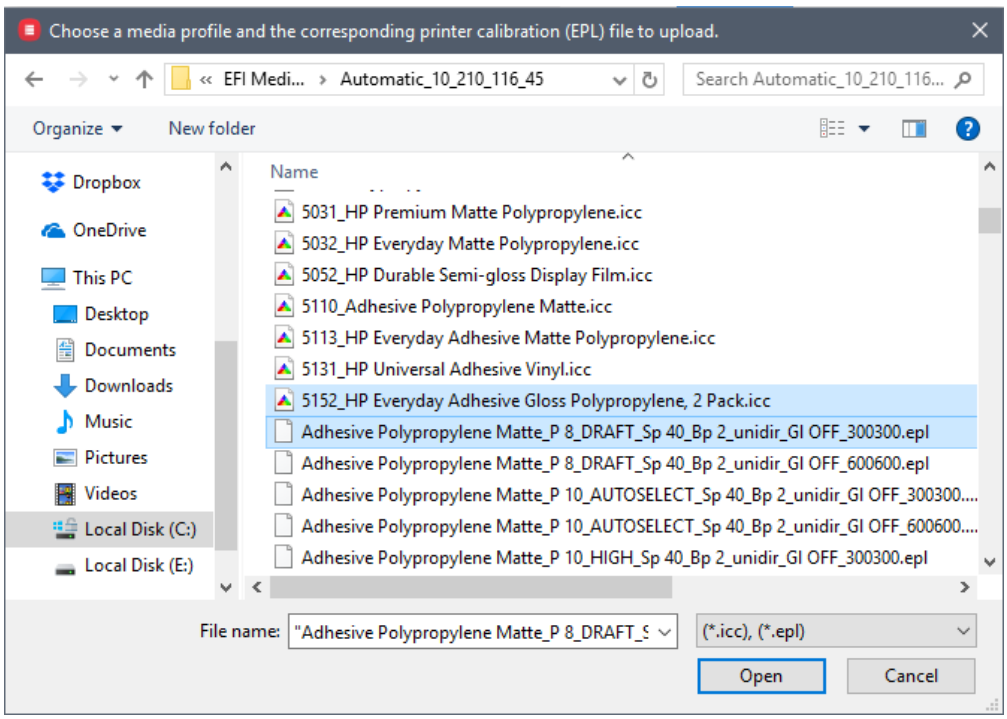
Upload an ICC profile onto the printer:

In Server Manager, go to special settings tab. Click the Upload button.



A window will open, which allows selection of an epl and the icc profile that needs to be uploaded.
Copy the epl whose settings, viz. media type and print mode, you want to use to upload the icc file.
The name of an epl mentions the media type and print mode.
Paste the epl in the same folder as the icc file you want to upload.
Select both the epl and icc file together and click "Open".
The icc file will be uploaded to the printer and will be used as the profile of the media whose epl was used to upload.
Driver status will display a message saying if upload was successful or not.



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