HP LF Printing Knowledge Center



Printing solutions

<u>Application:</u> ESRI ArcGIS 9.1 <u>Printer:</u> HP Designjet 4000 series <u>Operating System:</u> Windows



ArcGIS is a scalable system of software for geographic data creation, management, integration, analysis, and dissemination for every organization, from an individual to a globally distributed network of people.

The application always sends RGB data to the printer driver; you can choose between several different printer engines. The printer engine determines the format and method used by ArcMap to send the print job to the printer. There are from one to three options available, depending on license and printer configurations.

- **Windows** is the default and is always available, regardless of the printer in use. It allows the application to use the installed HP-GL/2 and RTL driver. Use it to get the best possible output.
- **PostScript** is available only if your printer supports PostScript and the PostScript driver was selected in the Name section. This allows you to output the file as a Postscript file. This option may be useful in certain specific cases, but in general it is **not recommended**.
- **ArcPress** is a software RIP that takes the original metafile and rasterizes it before sending it to the printer, so that the printer does not need to rasterize it. This is beneficial because some printers are not capable of rasterization or do not have enough memory to process large jobs. Use ArcPress always with HP RTL (RGB) TrueColor.

First recommendations:

- See the Media type functionality & features and choose the most appropriate media.
- Ensure that the Paper Type setting on the front panel corresponds to the paper you intent to use. If you want to get consistent color, the paper should be correctly calibrated, consult the <u>Calibrate my printer</u> section.

Printing with the Windows printer engine:

- 1. Ensure that you have installed the HP-GL/2 and RTL driver.
- 2. When you are ready to print, select **File** > **Page and Print Setup**, and select the HP-GL/2 and RTL driver.
 - Paper: Select the paper size and orientation in which you are going to print.
 - Use Printer Paper Settings: check this option on after selecting the paper size and orientation.
 - Layout Preview: it shows how your map page fits on the printer paper.

Page and Print	Setup	? ×
Frinter Setup -		
<u>N</u> ame:	HP Designjet 4000ps HPGL2/RTL	✓ Propertjes
Status:	Ready	
Type:	HP DeskJet 350 Printer	
Where	IR	
Comments:		
Paper		
<u>S</u> iz a	Letter (8.5 x 11 in)	Printer Paper
Sourcer	Manual Feed	Printer Margins
Drient <u>a</u> tion:	Portrait C Landscape	Map Page (Page Layout)
		Sample Map Elements
⊢Map Page Size	•	
Use <u>P</u> rinter	r Paper Settings	
Page		
Page Size 🕴	hat will be used is equal to Printer Paper Size	All the
<u>W</u> idth:	8.5 Inches	Sale Sale Sale Sale Sale Sale Sale Sale
<u>H</u> eight:	11 Inches 💌	
Drientati <u>o</u> n:	C Portrait C Landscape	
🔽 Show Printer	Margins on Layout 🛛 🗖 Sgale Map Elements	proportionaly to changes in Page Size

- 3. Click the **Properties** button and configure the driver as follows.
 - Paper/Quality tab:
 - Print Quality: Best.
 - **Optimize for:** Drawing/Text.

🐲 HP Designjet 4000ps HPGL2/RTL Properties 👘	<u>? ×</u>
Paper/Quality Effects Finishing Color Services	1
Print Task Quick Sets	
< new configuration >	▼ Save Dejete
Paper Options	• •
Size is:	
ANSI A (Letter)	
Extended Margins <u>C</u> ustom	
Source is:	
Roll	Size is: 8.5 x 11 in. Printable Area is: 8.11 x 10.35 in.
	Print Quality
Remove Top/Bottom Blank Areas	Best (enhanced)
Disable Automatic Cutter	Optimize for
✓ Autorotate	
Poll Size 42 inch roll	
	Maximum Detail
4P	<u>H</u> elp
	OK Cancel

- Color tab:
 - Color Matching Method: sRGB.

HP Designjet 4000ps HPGL2/RTL Properties Paper/Quality Effects Finishing Color Services Print Task Quick Sets K new configuration >	? ×
Color Options Print In Grayscale High Qgality Black Ink Only Advanced Color Settings Color Management	
Color Matching Method SRGB	
(<u>H</u> elp OK Cancel

- Click **OK** twice.
- 4. Select File > Print.
 - Printer Engine: select Windows Printer (it will use the selected raster driver).
 - Output Image Quality (Resample Ratio): this setting controls the output resolution of raster layers in the map. Output Image Quality only affects maps that contain raster data. Vector layers will output at the full output resolution defined by the printer driver settings. The following ratio values can be used to control raster drawing at output time:
 - Fast = 1:5
 - o Normal = 1:3
 - o Best = 1:1 (as is)

The 'Best' choice requires a lot of resources to process the print job, and could cause long processing times and perhaps out-of-memory messages, depending on the map size. If you have these problems, select an **Output Image Quality lower than 'Best'**. Print jobs produced with Output Image Quality set to the position between 'Normal' and 'Best' (ratio of 1: 2) are often indistinguishable from 'Best' print jobs, and print much faster.

Print	The second s	<u>? ×</u>
Printer Name: Status: Type: Where: Comments:	HP Designjet 4000 HPGL2/RTL Ready HP Designjet 4000 HPGL2/RTL IP_15 180 34 65	<u>S</u> etup
Printer Engine: Output Image Fast Ratio:	Windows Printer Properties Quality (Resample Ratio) Normal Best 1: 3	 Printer Paper(s) that will be printed Map Fage (Page Layout) Sample Map Elements
C Tile Map C All C Tiles C Scale Ma	to Printer Paper from: 1 🚖 to: 1 🚔 up to fit Printer Paper	
Print to Eile		OK Cancel

5. You can print now, click **OK**.

Printing with the ArcPress printer engine

- 1. You need to have a driver installed with the proper printer port configuration.
- 2. When you are ready to print, select **File > Page and Print Setup**, select the driver (the driver settings have no effect), and click the **OK** button.
 - **Paper:** Select the paper size and orientation in which you are going to print.
 - **Map page size > Page:** select the job size and orientation.
 - **Layout Preview:** it shows how your map page fits on the printer paper.

Page and Print	Setup			? ×
Printer Setup -				
<u>N</u> ame:	HP Designjet 40	00 HPGL2/RTL	- Prop	pertjes
Status:	Ready			
Туре:	HP Designjet 4000 H	PGL2/RTL		
Where,	IP_15.180.34.65			
Comments:				
Paper		v		
<u>S</u> ize:	ANSI A	•	Printer Paper	
Source:		Ŧ	Printer Margins	\$
Orientation:	Portrait	C Landscape	Map Page (Pa	ge Layout) Iements
- Map Page Size	,			
Use <u>Printer</u>	Paper Settings		Ber Yo	A LAND
Page			ST L	22
Standard Sig	es: Custom		131 to	
Width:	36	Inche:	- Witere	5/
<u>H</u> eight:	48	Inche:	All Re-	10
Orientati <u>o</u> n:	Portrait	C Landscape	TA	
C Show printer	margins on Layout	Scale nap elements p	proportionally to changes in	page size
			ок	Cancel

- 3. Select File > Print.
 - Printer Engine: select ArcPress.
 - Click the **Properties** button:
 - Driver: HP RTL (RGB) TrueColor driver.
 - **Resolution:** select the resolution that will be sent to the printer.

HP RTL (RGB) TrueColor	×
For use with new HP DeskJet piinter	series.
tesolution	
300	

• You can print now: click the **OK** button in this dialog box and in the Print dialog box.

For more information on HP Designjet products

www.hp.com/go/designjet

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