



# Reggiani BLAZE

This document bridges the gap between the Fiery XF documentation and the printer documentation. The driver supports the following printers:

Printer	Mirror default	Conveyor belt	Maximum width (mm)
Reggiani BLAZE	Direct	Yes	180

Reggiani BLAZE differs from other Reggiani printers:

- It does not have a print\_parameters folder.
- Output is a single PRN file.

The supported color configurations are same as for other Reggiani printers with flexible channel mapping:

Color modes	Variations
CMYK CMYKORB CMYKRV CMYKOB CMYKOVB CMYKRVk CMYKORBk CMYKRB CMYKO CMYKV CMYKOV CMYKk CMYKcm CMYKcmk CMYKOBk CMYKRBk CMYKOVBk CMYKORBcm CMYKORBcmk CMYKmk CMYKOBmk CMYKORBmk	Colors can appear in any order, with the following constraints: <ul style="list-style-type: none"> <li>• Cyan, Magenta, Yellow and Black must be installed.</li> <li>• More than two times the same color (e.g. 3 x Black) is not supported.</li> <li>• A color mode is only supported if all inks of that mode are installed.</li> </ul> Every now and then we add a couple of color modes. Please feel free to inquire if you find a mode missing.  The following colors are supported as printer-specific colors: <ul style="list-style-type: none"> <li>• Fluorescent Yellow</li> <li>• Fluorescent Magenta</li> <li>• Diluent</li> </ul> They can be freely combined to any color mode. Channel duplication is also supported for them.

## Setting up the printer

You need to setup a network folder where Fiery XF can upload PRN files and the BLAZE print application can read them..

## Setting up Fiery XF

Install Fiery XF 8.0 or later.

## Adding the printer in Fiery XF

- 1 Start the Fiery XF server. Start the Fiery Command Workstation. From Command Workstation, start Server Manager.
- 2 In Server Manager, add new printer, Reggiani BLAZE. A wizard appears:

- 3 Set the export path to e.g. “//BLAZE00/Reggiani”.

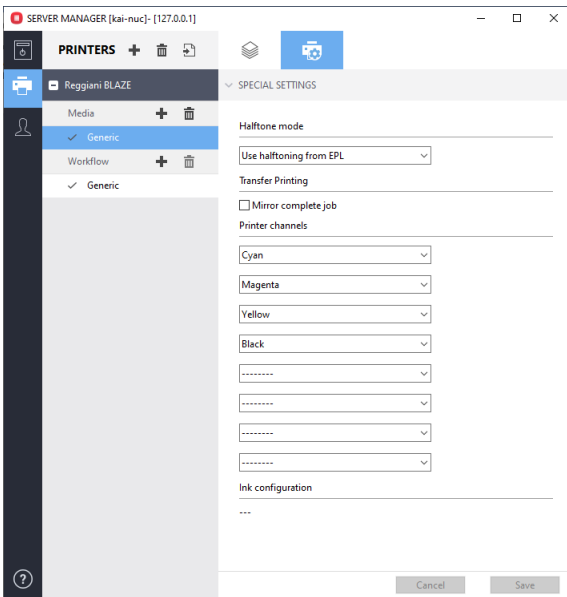
You can copy and paste the network path. (You can also set up a local connection for testing purposes. However, it is recommended that you do not use a local connection for printing.)

- 4 Enter the user name and the password and click Finish.

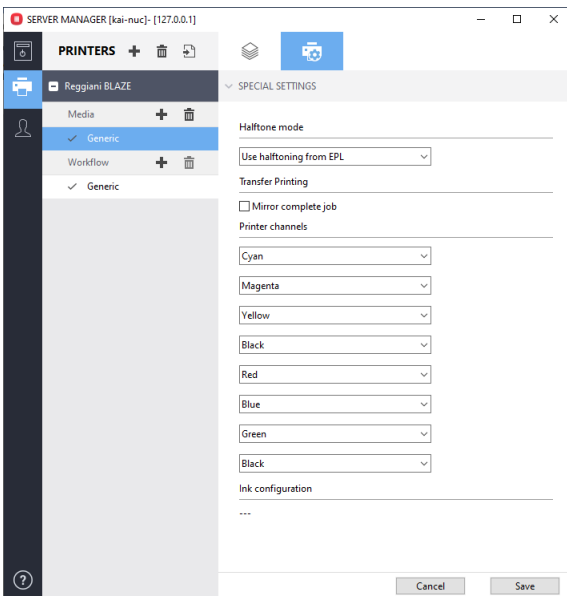
- 5 Click Test to verify that you can access the network export folder.

If you see an error message, check that the user name, password and export path settings are correct.

**6** Go to the printer special settings tab:



**7** Setup the printer channels to match the printer if it differs from 4 channels CMYK:

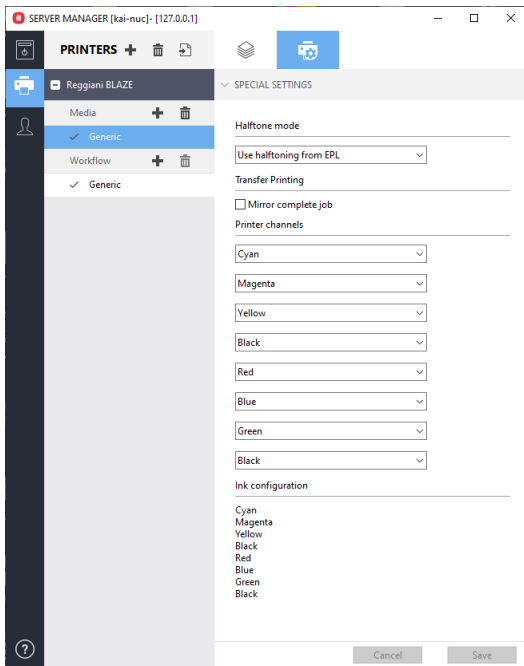


This is only an example – set it up according to the channel setup of your printer.

**8** Right-click Fiery XF Control and click Fiery XF Server Restart.

On server start the Fiery XF server makes this information of the first media setting available for Color Tools. Other media settings are ignored.

## 9 Verify the setting after Server Restart.



Ink Configuration is the basis of the color mode choice shown in Color Tools.

## Configuration file

### ReggianiPrn.ini

The ReggianiPrn.ini is located at C:\ProgramData\EFI\EFI\XF\Server and contains details of the driver configuration. If the file does not exist, the driver creates it with default values.

**Note:** Depending on your Windows setting, the file extension (.ini) may be hidden for known file types.

The Fiery XF driver reads out the following entries:

Entry (default value in bold)	Description
enable_unfiltered_print_modes	<b>0</b> = Use only print modes listed in print_parameters_list.txt 1 = Use all print modes in print_parameters folder
enable_print_mode_group	<b>0</b> = Do not show the print mode group on the Special tab 1 = Show the print mode group on the Special tab
enable_discontinued_devices	<b>0</b> = Do not show discontinued devices 1 = Show discontinued CMYK drivers for NEXT, ONE, PRO and TOP which existed in Fiery XF 6.3.
enable_special_color_modes	<b>0</b> = Support color modes as listed above 1 = Support additional color modes such as CMYKRGB
enable_special_dot_sizes	<b>0</b> = Support the set of dot sizes documented here 1 = Add a few dot sizes for special applications 2 = Support all dot size variants. Some have not been evaluated but might be useful

Other entries are for internal use.

## Operation

### Channel duplication

For BLAZE you configure the ink configuration in Fiery XF.

Fiery XF has special functions to generate data for duplicated ink channels. Fiery XF offers the following separation schemes as dot sizes:

ID	Name	Drop size (picoliter)	Comments
1	Split18 (7 12 18)	7 12 18	One halftoning stage for two channels plus 50% masks
4	Split25 (7 12 25)	7 12 25	Mask applied for 7, 12. The third dot of the halftoning fires on both print heads, 18 plus 7 which results in an effective 25.
10	Split36 (7 12 18 36)	7 12 18 36	Uses 4 dots at the halftoning stage. Mask applied for 7, 12, 18. The fourth dot of the halftoning fires on both print heads, 18 plus 18 which results in an effective 36.
43	Split36+ (7 12 18 25 30 36)	7 12 18 25 30 36	0%-50% is done by one print head only. Above 50% the second print head fills up.
64	NoSplit (7 12 18)	7 12 18	No split is done.

The modes Split36 and Split36+ give you the maximum ink amount possible from two print heads. The mode Split18 gives you the maximum amount of ink from one print head. Split25 is in the middle in terms of ink amount.

When you start a base linearization, it is normal to start with Split36. Afterwards, look at the effective channel ink limits (pre-ink limits multiplied by ink limits):

- If the biggest effective value is 50% or less, use Split18 and multiply your values by 2.
- If the biggest effective value is 70% or less, use Split25 and multiply your values by 1.44 (36/25).

However, the dot sizes Split $n$  are only available if there is at least one duplicated channel. For example:

- KCMYORBk: NoSplit only
- KCMYORBK: All split options available. In this case, the split is applied to the two K channels. All other channels operate in NoSplit mode.

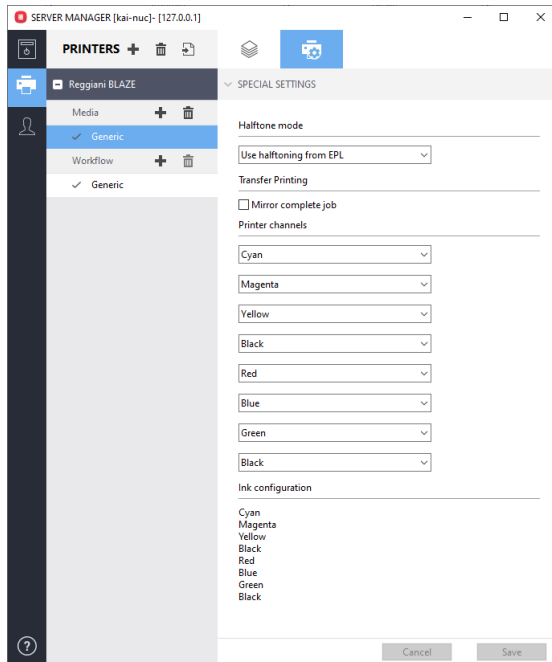
### Invalid Dot Size

Occasionally you get a calibration set that seems to match the ink configuration of your printer. But when you calculate a job you get this error message. The error indicates a mismatch (in terms of channel duplication) between

- the original ink configuration used when creating the calibration set and
- the ink configuration which was detected by the Fiery XF driver



## Special tab



The following settings are available on the Special Printer Settings pane:

Setting	Description
Halftone mode	The halftoning mode is normally defined by the EPL file. With this setting you can override the halftoning and force SE1 or SE2 halftoning mode.
Transfer printing	If you select “Mirror complete job”, the whole page, including the footer (job ticket and control strips), is mirrored. This compensates for the mirroring effect of the transfer.
Ink configuration	Displays the available ink channels. The PRN file is generated according to this information. If this area is not visible, the PRN file is CMYK.

## Printer-specific spot colors

Printer-specific spot colors are supported by the Flexible channel mapping. These channels bypass color management and go directly to the printer driver.

### Fluorescent ink

Fluorescent ink is supported by the two predefined, printer-specific spot colors FLUORESCENT\_YELLOW\_INK and FLUORESCENT\_MAGENTA\_INK. There are no special settings for those inks. You can create visual corrections in Color Tools and apply them.

## Diluent

Diluent is the volatile fluid part of ink. It can be used during the direct printing process to address ink penetration and bleeding issues. For transfer printing we have not seen any use case.

Diluent printing

Print mode:

Diluent max.:  %

Diluent min.:  %

Print mode	Behavior
Off	No diluent is printed
Dynamic ink amount on printed areas	Diluent ink is printed dynamically related to the TIL only on the printed areas (colored pixel): <ul style="list-style-type: none"> <li>printing the maximum % value until TIL value is reached</li> <li>printing the minimum % value always even TIL value is exceeded</li> </ul>
Dynamic ink amount: max. on printed, min. on entire area	Diluent ink is printed dynamically related to the TIL: <ul style="list-style-type: none"> <li>printing the maximum % value until TIL value is reached only on the printed areas (colored pixel)</li> <li>printing the minimum % value always even TIL value is exceeded on the entire area (colored &amp; white pixel)</li> </ul>
Dynamic ink amount on entire area	Diluent ink is printed dynamically related to the TIL on the entire area (colored & white pixel): <ul style="list-style-type: none"> <li>printing the maximum % value until TIL value is reached</li> <li>printing the minimum % value always even TIL value is exceeded</li> </ul>
Spot color DILUENT_INK	Diluent ink is printed if the job spot color is mapped to the DILUENT_INK printer spot color in Fiery XF on the printed area of the spot color channel (colored pixel in spot color channel): <ul style="list-style-type: none"> <li>printing the maximum % value until TIL value is reached</li> <li>printing the minimum % value always even TIL value is exceeded</li> </ul> <p>If the spot color channel includes tints and the maximum % value is different than 100% the tint value on the output is reduced in the ratio to the defined maximum % value</p>

Off is the default setting. Minimum % value cannot be higher than maximum % value.

From a customer installation with a PRO, Dyesub inks and color mode CMYKcmk and flag application we got the following example values:

### Diluent ink printing (Printer special tab)

- Mode: Dynamic ink amount on printed areas
- Diluent max: 25%
- Diluent min: 0%

### Linearization (Color Tools)

- Set TIL 110% .. 140% if channels are 30% .. 40%