# Reggiani printers

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

- Reggiani ONE
- Reggiani PRO
- Reggiani NEXT
- VUTEk FabriVU

The supported color configurations are KCMY and KCMYYMCK.

## Folder structure

Reggiani printers share a “Reggiani” folder. A local “Reggiani” folder is all that is needed for simulation purposes. The name of the Reggiani folder is not important. For example, you can call it “MyReggianiNext”.

The “Reggiani” folder requires two subfolders:

- jobs_to_prepare
  This folder is the output folder for the print files. The driver automatically creates a “jobs_to_prepare” subfolder during job processing if it is not already there.
- print_parameters
  This folder contains the printer configuration and all the print modes of the printer. **You must be able to access this folder to use the Fiery XF output device.**

## Installation

Install Fiery XF 6.3 or later. The Fiery XF drivers for Reggiani printers are available only for the Windows server.

### Selecting the printer in Fiery XF

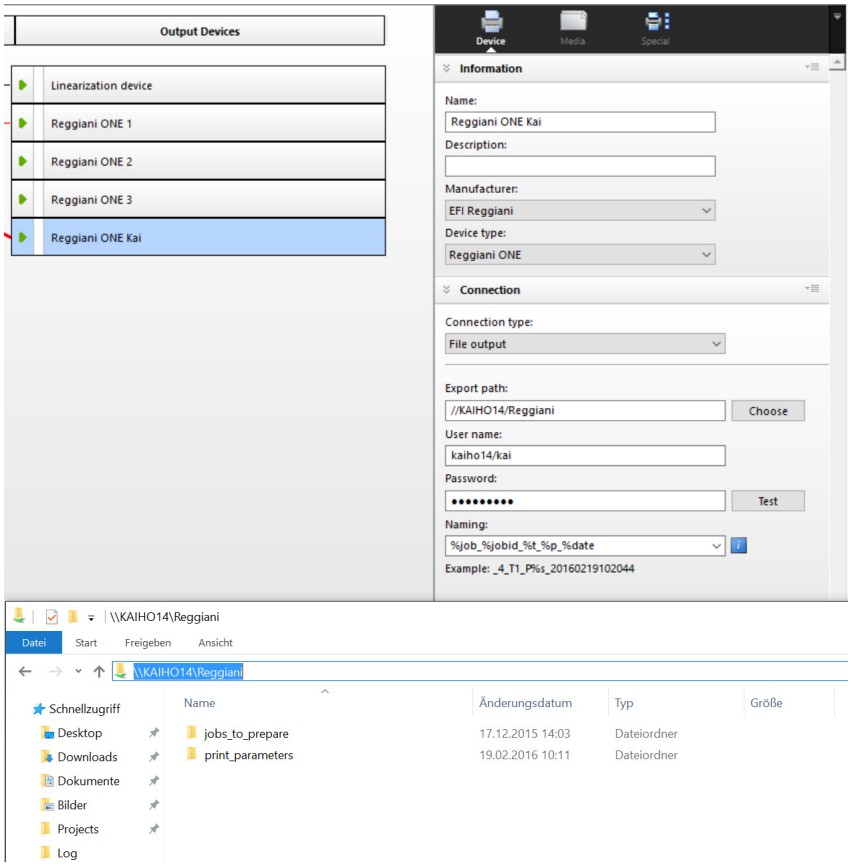
1 Start the Fiery XF server. Then start the Fiery XF client.

2 In System Manager, set up the linearization device, e.g. Reggiani ONE.

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## Selecting the “Reggiani” folder in Fiery XF

1 In Fiery XF, go to System Manager. On the Device tab, open the Connection pane.




2 Under “Connection type”, select “File output”.

3 Set the export path to //ONE00/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.)

**Note:** Make sure to select the “Reggiani” folder as the Export folder, not the “jobs_to_prepare” subfolder. If you want to use the default Export folder instead of the “Reggiani” folder, the print files will be created in “Export/jobs_to_prepare”. However, this works only if the Export folder already contains a valid “print_parameters” folder.

4 Enter the user name “User”, and the password “Reggiani123456”, and click Save.

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 Set the workflow online, by making sure all the arrows are green.

7 Right-click Fiery XF Control and click Fiery XF Server Start.

On server start the Fiery XF server reads out the information from all configured “Reggiani” folders.

## Verifying the setup

### print_parameters folder status

1 Check that the "Reggiani" folder and its contents are valid.

- At the Reggiani PC: For a new printer, you probably need to:
  - Configure the machine type.
  - In the Edit Job dialog box, click the Tools menu and then click "Send print parameters to rip".
- In Fiery XF, go to System Manager. On the Special tab, open the Special Printer Settings pane, and check the status of the print_parameters folder.

| Status | Comment |
|---|---|
| No content found | One of the following is true:<br>• The Reggiani folder is not configured correctly.<br>• The Fiery XF server was not restarted after the "Reggiani" folder was configured.<br>• Access problems are preventing data being read from the "print_parameters" folder. |
| Valid folder | All the necessary data is available. |
| Multiple valid folders | All the necessary data is available. The information is merged from more than one folder.<br>This folder status is also displayed if more than one valid Regginai folder exists. |
| No print mode entries | print_parameters_list.txt is not valid or all related *.ini files are not valid. |
| No configuration file | configuration.ini is not valid. |

The last two errors should not occur.

### Print modes test in Color Tools

Check that the print modes are available.

1 In Fiery XF, go to Job Explorer and start Color Tools.

2 In the start screen, click Create Base Linearization.

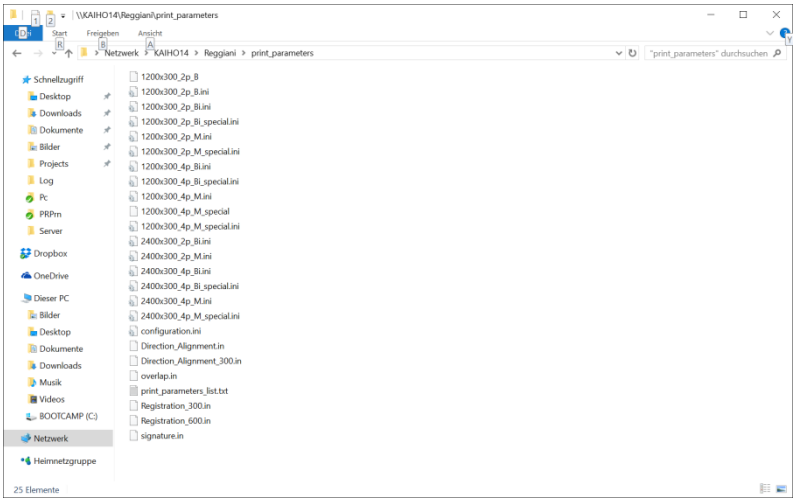
3 Under "Output settings", check that the printer's supported resolutions and color modes are available.

A resolution of 100 x 100 dpi indicates that the print_parameters folder has a status of "No content found" or "No print mode entries" (see table above).

## Configuration files

### print_parameters folder

The print_parameters folder contains information that is used by the printer driver. Typical content looks like this:




| Status | Comment |
|---|---|
| configuration.ini | This file contains the printer configuration. The Fiery XF driver reads out the following entries:<br>drop_sizes: The default is 7, 12, 18. Valid entries are bigger than 0 and smaller than 500. The values are displayed in parentheses in the list of dot sizes in Color Tools. |
| print_parameters_list.txt | This file lists all print modes. For each line there is an *.ini file with the following details:<br>• The base name of the file is the name of the print mode.<br>• y_res and x_res correspond to the resolution in the Reggiani coordinate system. |

### 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:

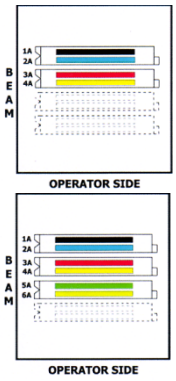
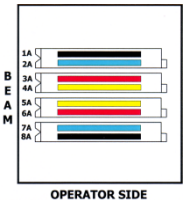
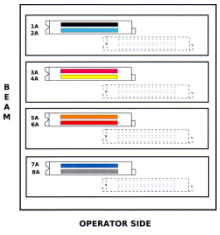
| Entry (default value in bold) | Description |
|---|---|
| enable_advanced_lin=0<br>**enable_advanced_lin=1** | Enable standard linearization<br>Enable advanced linearization |
| **enable_unfiltered_print_modes=0**<br>enable_unfiltered_print_modes=1 | Use only print modes listed in print_parameters_list.txt<br>Use all print modes in print_parameters folder |
| **enable_print_mode_group=0**<br>enable_print_mode_group=1 | Do not display the print mode on the Special tab.<br>Show the Print Mode group on the special tab |

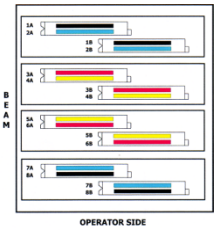
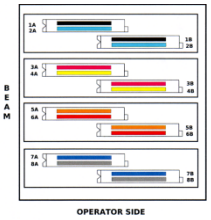
| Entry (default value in bold) | Description |
|---|---|
| preview_max_width_pixels<br>preview_max_height_pixels | Size of the preview window. The default is **591** in both directions. |

# Operation

## Machine types

The following machine type variants of the Reggiani ONE serve to illustrate how machine types affect print modes and data format.

| Machine type | Head layout | Stag-gered | No. TIFFs | Fiery XF CMYK driver | Comments |
|---|---|---|---|---|---|
| 200 |  | No | 4 or 6 | NoSplit | These are the smallest configurations.<br>Bi-directional print modes may have visible color alterations from pass to pass because of the asymmetry.<br>The 6 channel variant is not supported in Fiery XF. |
| 220 |  | No | 4 | NoSplit | This configuration uses printer side masking to distribute the dots evenly. The configuration is supported by Fiery XF but it is only recommended for 600 dpi printers like Reggiani PRO. |
| 215 |  | No | 8 | Split*N* | This configuration was originally designed for 8 different inks. Each channel from the RIP goes directly to the corresponding color channel.<br>The recommended way to configure a 300 dpi CMYK printer for Fiery XF: If you set the ink channels to KCMYYMCK (like in machine type 220), it is up to the RIP vendor to do the splitting. The Split*N* methods of Fiery XF give you the flexibility to increase the ink amount in a smart way.<br>Only KCMYYMCK is supported in Fiery XF. |

| Machine type | Head layout | Stag-gered | No. TIFFs | Fiery XF CMYK driver | Comments |
|---|---|---|---|---|---|
| 218 |  | Yes | 4 | NoSplit | The staggered configuration increases the print speed by a factor of nearly two compared to the single row configuration.<br>As far as Fiery XF is concerned, the behavior is the same as machine type 220. |
| 211 |  | Yes | 8 | Split*N* | The staggered configuration increases the print speed by a factor of nearly two compared to the single row configuration.<br>As far as Fiery XF is concerned, the behavior is the same as machine type 215. |

## Channel duplication

All printers with 300 dpi print heads and 8 ink channels should be configured so that the CMYK print data is received in 8 TIFF separations. 600 dpi printers such as Reggiani PRO and printers with only two print heads are an exception to this.

Fiery XF offers the following separation schemes as dot sizes:

| ID | Name | Drop size (picoliter) | No. TIFFs | Comments |
|---|---|---|---|---|
| 1 | Split18<br>(7 12 18) | 7 12 18 | 8 | One halftoning stage for two channels plus 50% masks |
| 4 | Split25<br>(7 12 25) | 7 12 25 | 8 | 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<br>(7 12 18 36) | 7 12 18 36 | 8 | 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+<br>(7 12 18 25 30 36) | 7 12 18 25 30 36 | 8 | 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 | 4 | 4 separations is a special case for printers that are configured that way. |

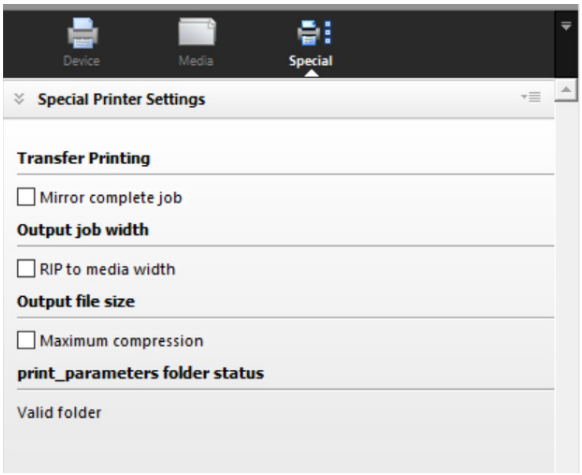
The modes Split36 and Split36+ give you the maximum ink amount possible from two print heads. The mode Split18 gives you the maximum amount of ink from one print head. Split25 is in the middle in terms of ink amount.

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).

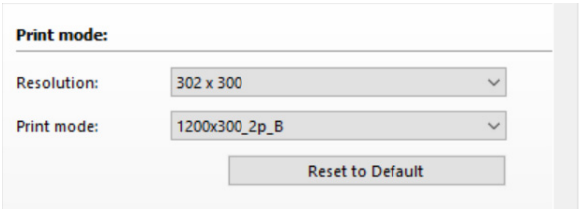
If your machine type is configured for 4 TIFF separations, you do not have the flexibility of the Split*N* modes. In this case, you must use the NoSplit mode. Using a Split*N* mode with a machine type configured for 4 TIFF separations results in a poor print quality because half the print data is ignored.

## Special tab




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

| Setting | Description |
|---|---|
| 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. |
| Output job width | If you select “RIP to media width”, the output files become as wide as the media. This pushes the printer-generated tickling lines to the conveyor belt.<br>This settomg is only available for machines with a conveyor belt (Reggiani ONE and Reggiani PRO). |
| Output file size | You can change the compression rate for the separated TIFF files.<br>“Maximum compression” yields a better compression but it slows down the processing speed on Fiery XF and on the RIP application. Use it only if each separated TIFF file is 2GB or more. |
| print_parameters folder status | The status displays either “Valid folder” or “Multiple valid folders”. |

| Setting | Description |
|---|---|
| Print mode (optional) | This setting is only available if the driver configuration file contains the entry “enable_print_mode_group”.<br><br>If “Print mode” is available, you can print a job with settings completely different from the settings used to create the profile. However, be aware that there is a high risk of poor color reproduction. |

## Multiple printer support

The print mode information of the Fiery XF printer driver comes from the physical printer(s). You do not need the information in this section:

- If you connect Fiery XF to only one printer
- If you connect Fiery XF to printers of different types (e.g. a Regginai ONE and a Reggiani PRO)

This section explains what happens if you connect Fiery XF to more than one printer of the same type, e.g. two Reggiani ONE.

### Status details

ReggianiPrnStatus.txt (located in the Fiery XF server’s data folder) contains information about folders and print modes that do not exist on all physical printers. Below is an example of the file’s content:

```
ReggianiPrnStatus.txt -- Status of Reggiani output folders

ReggianiPrintParameters id=6200, 17 print modes from:
   C:/ProgramData/EFI/EFI XF/Server/Export/ONE-1/Reggiani/print_parameters/ (2)
   C:/ProgramData/EFI/EFI XF/Server/Export/ONE-2/Reggiani/print_parameters/ (3)
   C:/ProgramData/EFI/EFI XF/Server/Export/ONE-3/Reggiani/print_parameters/ (4)
   2400x300_8p_Bi_Kai only in { 3 4 }
   2400x300_8p_M_Frank only in { 4 }
   2400x300_8p_M_Frank2 only in { 4 }

ReggianiPrintParameters id=6201, no print modes

ReggianiPrintParameters id=6202, 14 print modes from:
   C:/ProgramData/EFI/EFI XF/Server/Export/NEXT/Reggiani/print_parameters/ (1)

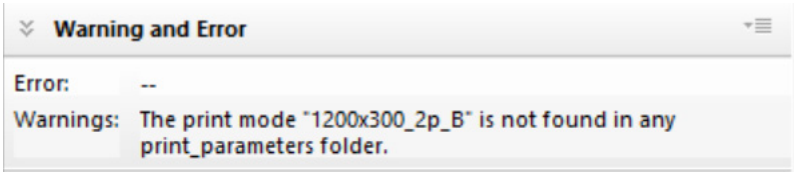
ReggianiPrintParameters id=6203, no print modes
```

In this example, “2400x300_8p_Bi_Kai” does not exist on the ONE-1 printer. The two “Frank” print modes exist only on ONE-3. All other print modes can be used on ONE-1, ONE-2 and ONE-3.

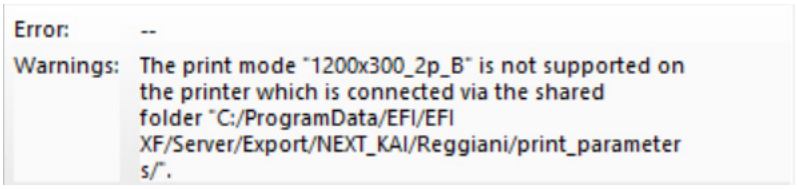
### Printing

All print modes are available and can be selected. On printing, the printer driver checks if a print mode is not supported on that particular printer.

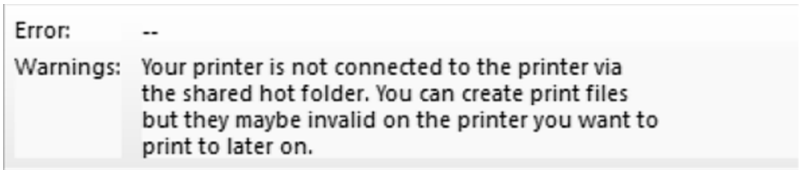
If the print mode is not supported on any printer, a warning message appears:




If the print mode is not supported on that particular printer, a different warning message appears:




In special circumstances, the Reggiani folder may not be valid (e.g. if the **print_parameters** folder does not exist or if the Fiery XF server has not been restarted). This can happen, for example, if you change the Export folder just to collect print files without sending them to an actual printer. Although the job is still printed, the following warning message also appears:




## Support case simulation files

If you need to contact our Support team, we require the “print_parameters” folder from the Reggiani printer, in addition to the usual files (e.g. Server.log).