

## Using GMG InkOptimizer in Prinergy 4

New features in GMG Ruleset v3:

- Easy to use – one click processing
- Support for ColorServer / InkOptimizer 4.5 and 4.6
- With version4.6: Detailed status messages in Prinergy
- Trapping after Colormanagement

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# 1 Introduction

This manual describes how to integrate GMG ColorServer / InkOptimizer (version 4.5 or version 4.6) into a Kodak Prinergy 4 workflow with the help of Rules Based Automation (RBA). It shows the required Prinergy configuration, which will work for both GMG ColorServer and GMG InkOptimizer. In this example, we will use GMG InkOptimizer.

Rules Based Automation allows for individually customized workflows and can be modified for your individual needs. This solution is just one example of how GMG ColorServer and GMG InkOptimizer can be integrated into a Prinergy workflow. Please adjust this solution to your needs.

Even if the following solution was well tested, the use of RBA is out of scope of GMG products and services and GMG provides no warranties for the use of this solution.

## 1.1 Requirements

- GMG ColorServer/InkOptimizer needs to be installed on a computer with network access to/from Prinergy machine. At least one PDF-to-PDF hotfolder is required.
- A Prinergy RBA license, which is an additional license and not part of the basic Prinergy application.
- Basic knowledge about importing and modifying RBA rule sets.

## 1.2 What is this Solution for?

This solution will automate the file conversion with GMG InkOptimizer or GMG ColorServer from the Prinergy application. It allows to defining and starting a conversion in the Prinergy job manager. The conversion status of all pages will be displayed in both the list view and the thumbnail view. For each page, detailed warning or error messages are displayed directly in the Prinergy page list, allowing the operator to track the progress of each page from within the Prinergy user interface.

|   |                     |  |
|---|---------------------|--|
|  Testseiten B 1-20.p15.pdf | 24.09.2009 18:42:29 |  |
|  Testseiten B 1-20.p13.pdf | 24.09.2009 18:42:29 |  |
|  Testseiten B 1-20.p12.pdf | 24.09.2009 18:42:29 |  |
|  Testseiten B 1-20.p11.pdf | 24.09.2009 18:42:29 |  |
|  Testseiten B 1-20.p14.pdf | 24.09.2009 18:42:29 | Processing (GMG Hotfolder)   |
|  Testseiten A 1-20.p9.pdf  | 24.09.2009 18:45:34 | Successful (GMG Hotfolder)   |
|  Testseiten A 1-20.p8.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
|  Testseiten A 1-20.p7.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
|  Testseiten A 1-20.p6.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
|  Testseiten A 1-20.p5.pdf  | 24.09.2009 18:44:03 | Successful with warning (GMG Hotfolder): 'Input PDF contains transparencies or overprinting elements.' |

List view



Thumbnail view

## 2 Preparing the Network

On the Prinerger server, create GMG ColorServer / InkOptimizer hotfolders and output folders. These hotfolders and output folders should be placed at the Prinerger Jobs volume in a “GMG” directory.

Placing the hotfolders and output folders at the Prinerger server guarantees that Prinerger is able to access these hotfolders for file exchange.

If you want to place the hotfolders and output folders at the GMG-PC instead of the Prinerger server, you have to make these folders accessible for the Prinerger server.

### The following steps are only necessary, if you place the hotfolders at the GMG-PC:

1. On the GMG workstation, create a new Windows user named “Araxi” and provide administrator rights to this user. Use the same password that is defined for the Araxi user in Prinerger.

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Note: “Araxi” is the default administrator name used by Prinerger.

Note: You do not have to log on to the GMG computer as the “Araxi” user. This new user is only necessary to enable the access for Prinerger. Consult the “Prinerger Administrator Online Help”, chapter “About the Araxi service account” for additional information.

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2. On the GMG computer, create a share for the directory that contains the GMG hotfolders and GMG output folders to the network.

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Note: Microsoft Windows is limited to a maximum of 10 concurrent connections to a share. If the share is used by other clients, Prinerger might be unable to connect to the share.

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3. On the Prinerger server, add the share in Prinerger Administrator:

- From the **Tools** menu, select **Configure System**.
- In the **Configuration Options** dialog box, click the **Input Volumes** tab.
- Click **Browse**, browse to the shared folder, select it, and click **OK**.
- Click **Add Volume**.
- Click **OK**.

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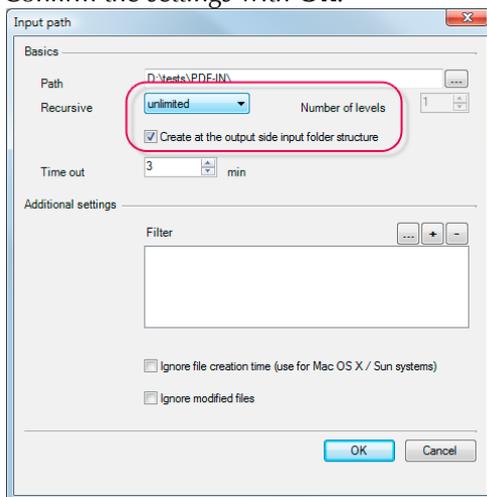
Note: Consult the “Prinerger Administrator Online Help”, chapter “Adding an input volume to Prinerger” for additional information.

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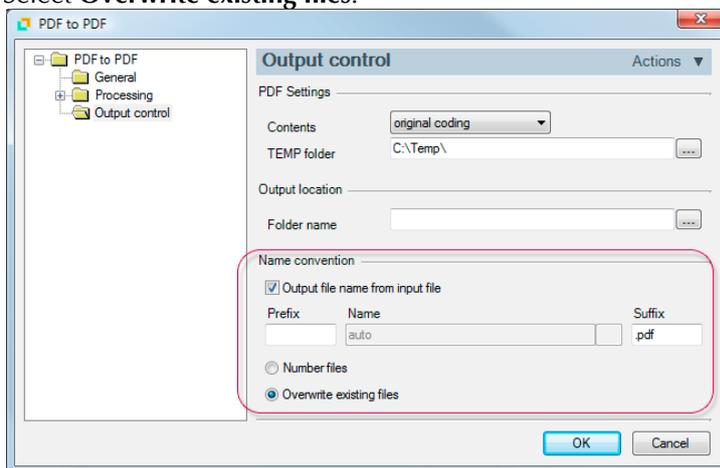
## 3 Setting up GMG InkOptimizer

### 3.1 Setting up GMG InkOptimizer Version 4.5

1. On the **Hotfolder** menu, click **New PDF to PDF Hotfolder**.  
The **PDF-to-PDF** dialog box is displayed.
2. Under **Settings**, click the **[+]** Button.  
The **Input path** dialog box is displayed.
3. Under **Basics**, enter the path of the hotfolder that is located at the Prinergy Server.
4. Select **unlimited** from the **Recursive** list.
5. Select the option **Create at the output side input folder structure**.
6. Confirm the settings with **OK**.



7. In the navigation panel on the left, expand the **PDF to PDF** folder and click **Output control**.
8. Under **Name convention**, select **Output file name from input file**.
9. Select **Overwrite existing files**.



Note: Do not change the **Prefix** or **Suffix** value. Otherwise the rule set will not be able to detect the converted files.

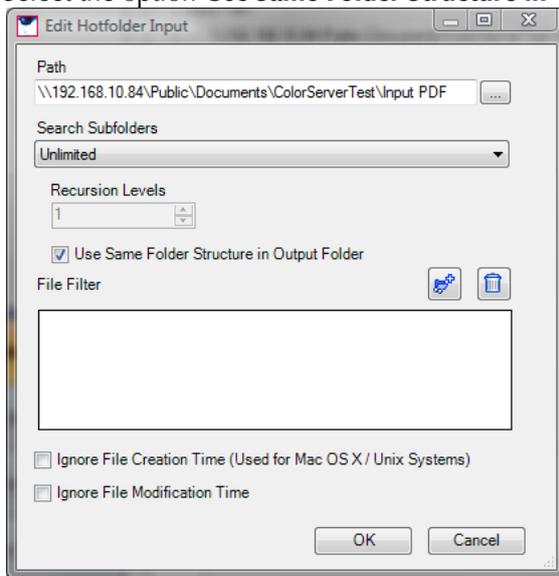
10. Configure all other hotfolder settings according to your needs.
11. Click **OK** to save the hotfolder settings.
12. Repeat all these steps for every hotfolder you want to use.

#### How to activate PDF clean up

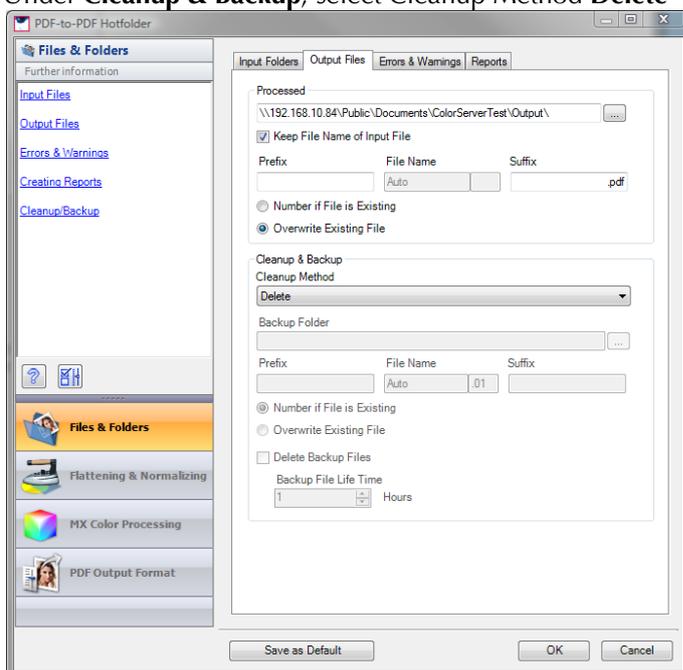
⇒ In the InkOptimizer main window, select **Remove PDF to PDF** jobs from the **Hotfolder** menu.

### 3.2 Setting up GMG InkOptimizer Version 4.6

1. On the **Hotfolder** menu, click **New PDF to PDF Hotfolder**.  
The **PDF-to-PDF** dialog box is displayed.
2. Under **Files & Folders: Input Folders**, click the **Add Input Folders** Button.  
The **Input path** dialog box is displayed.
3. Under **Path**, enter the path of the hotfolder that is located at the Prinergy Server.
4. Select **unlimited** from the **Search Subfolders** list.
5. Select the option **Use Same Folder Structure in Output Folder**.

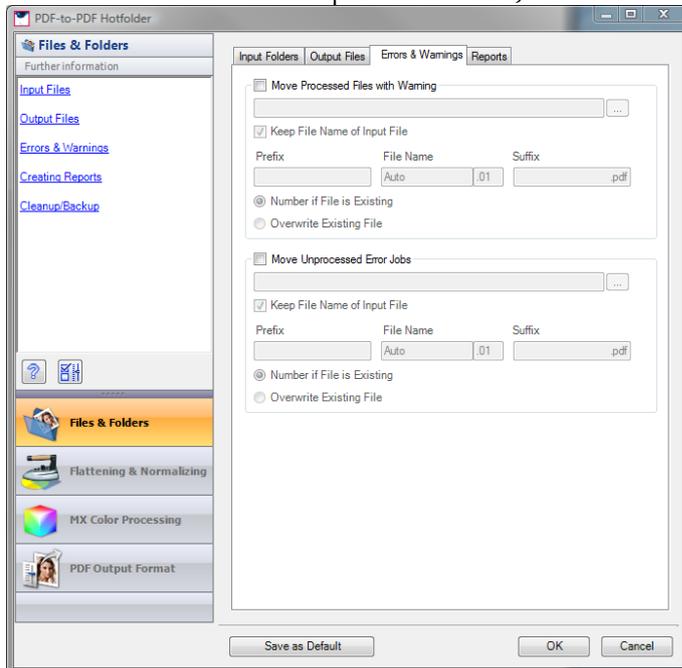


6. Confirm the settings with **OK**.
7. Switch to the **Output Folders** tab.
8. In the **Processed** box, enter the path of the output folder that is located at the Prinergy Server.
9. Select **Keep File Name of Input File**.
10. Select **Overwrite Existing Files**.
11. Under **Cleanup & Backup**, select Cleanup Method **Delete**

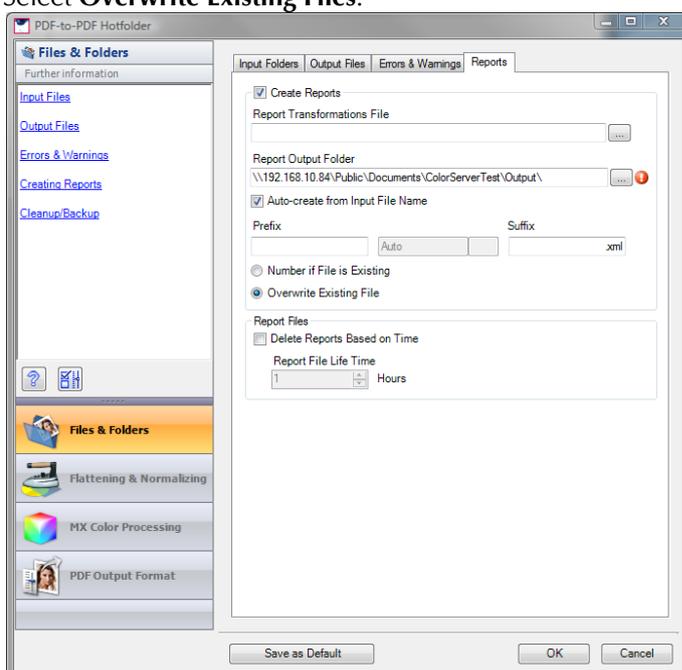


Note: Do not add a **Prefix** or **Suffix** value. Otherwise the rule set will not be able to detect the converted files.

12. Switch to the **Errors & Warnings** Tab
13. Make sure that the Move Processed Files with Warning checkbox is not selected
14. Make sure that the Move Unprocessed Error Jobs box is not selected.



15. Switch to the **Reports** tab.
16. Select the **Create Reports** checkbox.
17. Make sure that the **Report Transformations File** box is empty.
18. As **Report Output Folder**, select the same folder that was selected in step 8 as output folder. Report and PDF output file must be placed in the same folder.
19. Select **Auto-create from Input File Name**.
20. Change the suffix from **“.html”** to **“.xml”**.
21. Select **Overwrite Existing Files**.



22. Configure all other hotfolder settings according to your needs.
23. Click **OK** to save the hotfolder settings.
24. Repeat all these steps 1 for every hotfolder you want to use.

**How to activate PDF clean up**

- ⇒ In the InkOptimizer main window, select **Remove PDF to PDF** jobs from the **Hotfolder** menu.

## 4 Setting up the Custom Fields

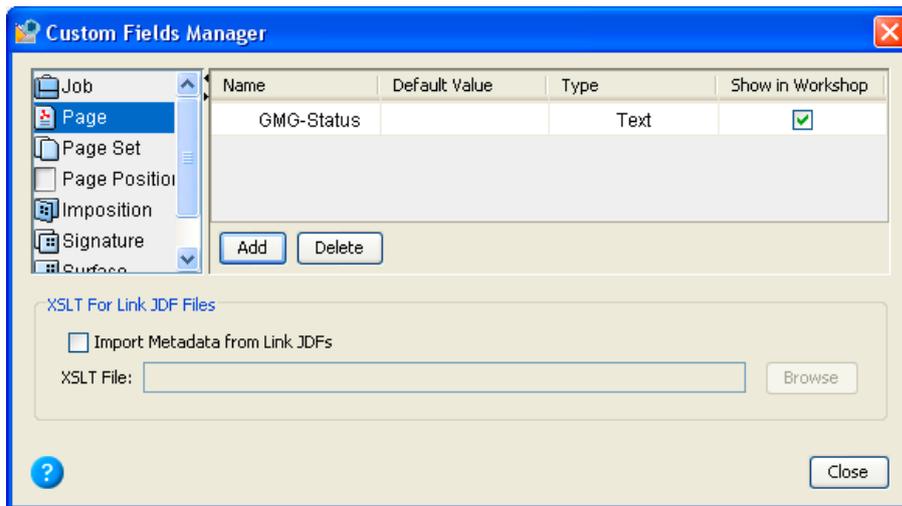
1. Start **Prinerger Workshop** and log on with your user ID and password.
2. From the **Tools** menu, choose **Custom Fields Manager**.
3. In the **Custom Fields Manager** dialog box, in the panel on the left side, select **Page**.
4. Click the **Add** button.
5. In the **Add Custom Field** dialog box, type „**GMG-Status**“ into the **Name** field.

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Note: Please use exactly the name **GMG-Status** and take care of spelling errors. Otherwise the rule set will not work.

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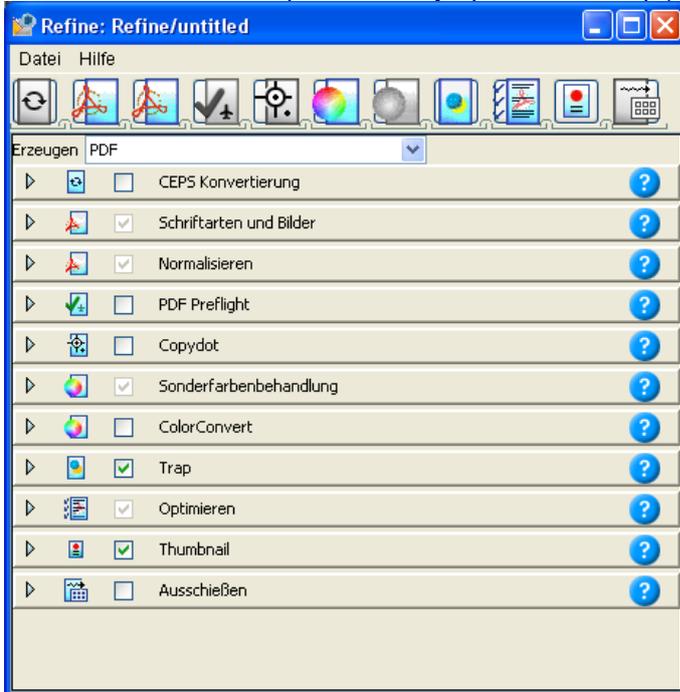
6. In the **Type** field, select **Text**.
7. In the **Show in Workshop** field, select the check box.



8. Click **Close**.
9. View the new column and “GMG-Status” in the **Pages** pane.

## 5 Setting up a trapping template

1. From the **Tools** menu, choose **Process Template Editor**.
2. From the **File** menu, choose **New Process Template**.
3. In the new Process Template, select the **Trap** checkbox. If you want to use thumbnails, select the **Thumbnail** checkbox. Expand the **Trap** option and set up your preferred trapping options.



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Note: Do not select additional checkboxes. Especially the **ColorConvert** checkbox must not be selected.

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4. Save the Template

## 6 Setting up the Prinerger Rule Sets

This solution uses one copy of a rule set for each hotfolder. If you use, for example, three hotfolders in GMG InkOptimizer, you need three copies of this rule set.

### Importing the rule set

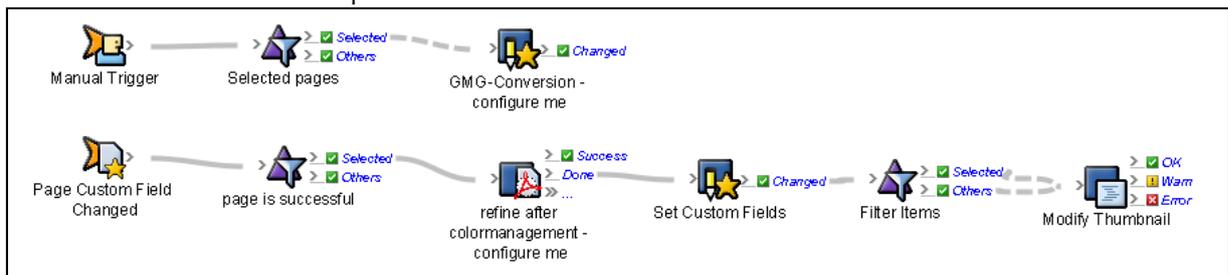
1. Extract the **GMG ruleset v3.zip** file that you have received together with this manual.
2. In **Job Finder**, from the **Tools** menu, select **Rule Set Manager**.

Note: If you do not have full administrator user rights, (Read Only) is shown in the title bar of the **Rule Set Manager** window and all **Rule Set Manager** buttons are unavailable. If you have full administrator rights, all **Rule Set Manager** buttons will be available.

3. In **Rule Set Manager**, in the **Rule Set Library** list, right-click on the root level **Rule Sets** folder and create a new group called **GMG**.
4. Right-click on **GMG** and select **Import**.
5. In the **Import** dialog box, select the **GMG-Ruleset v3.xml** file that you extracted from the **GMG Ruleset v3.zip** file in step 1.
6. Click **Import**.

### Changing the rule set

7. Double-click the imported rule set.  
The **Rule Set Editor** window opens.



8. Double-click the connecting line between the **Selected pages** result and the **GMG-Conversion – configure me** action.

```

19
20     ColorServerVersion = "4.6" 'Allowed values: "4.5" or "4.6". In case of "4.6", xml-Reports will be used to identify t
21
22     'Path of the Hotfolder and Outputfolder at GMG
23     HotfolderName = "GMG Hotfolder" 'Name of the GMG Hotfolder conversion, e.g. "ISOcoated 39", "InkOptimizer G3 GraCOL'
24     Hotfolder = "\\PROOF-PC\gmg\Colorserver\CS4.6\PDF In"
25     Outfolder = "\\PROOF-PC\gmg\Colorserver\CS4.6\PDF Out"
26
27     '----- Prinerger Custom fields to use -----
28
29     Statusfield = "GMG-Status"           'This field will show the processing status
30
31
32     '--- Additional Settings ---
33     DeleteFromOutfolder = True           'If 'True', the PDF and the Reportfile will be deleted from the GMG-Outfolder. I:
34     ModifyThumbnail = True               'If 'True', the Thumbnail will get a frame to show the processing status.
35     ThumbnailBorder = 5                  'Thickness of the Thumbnail border in Pixel.
36     ThumbnailProcessingcolor = "Blue"    'Bordercolor of Thumbnails that are currently processing.
37     ThumbnailOKcolor = "Darkgreen"      'Bordercolor of Thumbnails that have been processed successfully.
38     ThumbnailWarningColor = "Orange"    'Bordercolor of Thumbnails that have been processed with warnings.
39     ThumbnailErrorcolor = "Red"         'Bordercolor of Thumbnails that could not be processed because of an error.
40
41
42
43     '----- Timeout-Settings -----
44
45
46     WaitingSeconds = 5                   'in Seconds - Watch the hotfolder each x Seconds. (This should be the average tir
47     Timeout = 900                        'in Seconds - Abort if the Files have not been found within this time. Default va
48

```

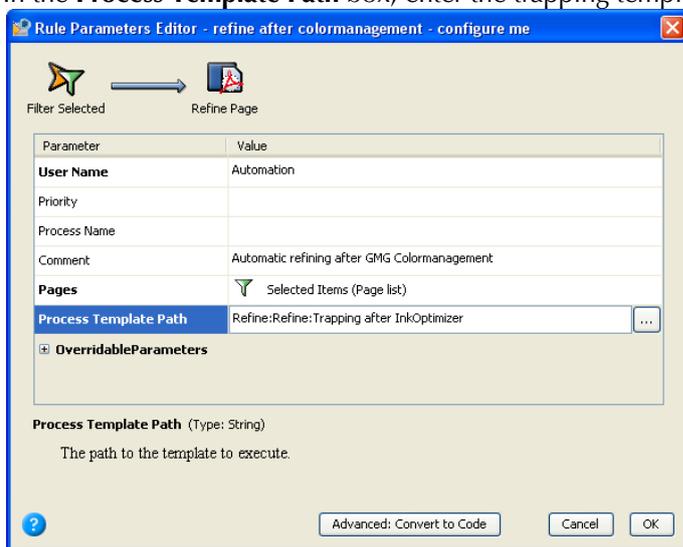
9. In the **Code Editor**, in **line 20**, replace the magenta colored text enclosed by quotation marks in the figure above with the version of ColorServer / InkOptimizer that you are going to use. You can enter either **4.5** or **4.6**.

10. In the **Code Editor**, in **line 23**, replace the magenta colored text enclosed by quotation marks with the **Hotfolder Name** of the hotfolder that you want to use. This should be a short text that describes the hotfolder settings.
11. In the **Code Editor**, in **line 25**, replace the magenta colored text enclosed by quotation marks with the path of the **hotfolder** that you want to use.
12. In the **Code Editor**, in **line 26**, replace the magenta colored text enclosed by quotation marks with the path of the **output folder** that you want to use.
13. In the **Code Editor**, in **line 47**, you can change the magenta colored number with the **time out** (in seconds) that you want to use. The default time out of 900 seconds (15 minutes) turned out to be a good average value, but you can increase this if you are going to convert very many files at once.
14. Click **Save** to close the Code Editor

Note: Step 15 and 16 are required to configure the trapping after colormangement. If you do not want to use trapping, you can delete the lower part of the rule ("Page Custom Field Changed" event plus all connected actions)

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15. Double-click the connecting line between **Selected** result for **page is successful** and the **refine after colormangement – configure me** action.
16. In the **Process Template Path** box, enter the trapping template you created in chapter 5 and click **OK**.



### Saving the rule set

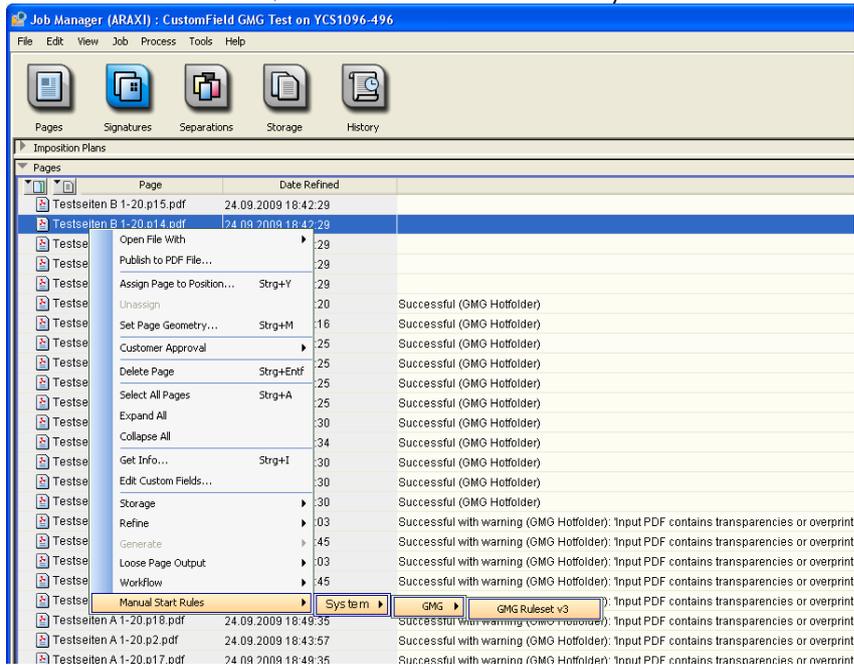
- ⇒ Save the rule set and name it with the same name that you used as **Hotfolder Name** in step 10 and close the Rule Set Editor.

Create additional Copies of the Rule for each GMG Hotfolder.

## 7 Using the Rule Set

1. Open the **Job Manager**.
2. From the **Tools** menu, select **Rule Set Manager**.
3. In the **Rule Set Manager**, enable all rule sets of the **GMG** group as system rules.
4. Open or create a job in Prinergy and add some pages.
5. From the **View** menu, select **Visible Columns**.
6. Select **GMG-Status** and click OK.
7. In the **Pages** view, select all pages that you want to convert and right-click to open the context menu.

8. From the **context menu**, select **Manual Start Rules: System: GMG: <Name of the conversion>**.



9. If the **Start Process** box appears, click **OK**.  
 ➤ Now the **GMG-Status** custom field of every page will be updated and the files will be transferred to GMG InkOptimizer.

| Page                      | Date Refined        | Status   |
|---------------------------|---------------------|--|
| Testseiten B 1-20.p15.pdf | 24.09.2009 18:42:29 |  |
| Testseiten B 1-20.p13.pdf | 24.09.2009 18:42:29 |  |
| Testseiten B 1-20.p12.pdf | 24.09.2009 18:42:29 |  |
| Testseiten B 1-20.p11.pdf | 24.09.2009 18:42:29 |  |
| Testseiten B 1-20.p14.pdf | 24.09.2009 18:42:29 | Processing (GMG Hotfolder)   |
| Testseiten A 1-20.p9.pdf  | 24.09.2009 18:45:34 | Successful (GMG Hotfolder)   |
| Testseiten A 1-20.p8.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
| Testseiten A 1-20.p7.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
| Testseiten A 1-20.p6.pdf  | 24.09.2009 18:45:30 | Successful (GMG Hotfolder)   |
| Testseiten A 1-20.p5.pdf  | 24.09.2009 18:44:03 | Successful with warning (GMG Hotfolder): 'Input PDF contains transparencies or overprinting elements.' |

10. After all processing files are converted or the timeout is reached, switch to the **History** view. If any errors should have occurred, an error message will show detailed information about these errors.  
 11. Switch to the **Thumbnail View**. The status of each page is indicated by a colored frame around the thumbnail.

| Status in List view     | Color in Thumbnail view | Comment                                       |
|-------------------------|-------------------------|---|
| Processing              | Blue                    |   |
| Successful              | Green                   |   |
| Successful with warning | Orange                  | Available with ColorServer / InkOptimizer 4.6 |
| Error                   | Red                     |   |

Note: It might be necessary to refresh the view to see the changed thumbnails.