



GMG ColorProof Job Ticket Integration

Imprint

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1. How to Use Job Tickets in GMG ColorProof

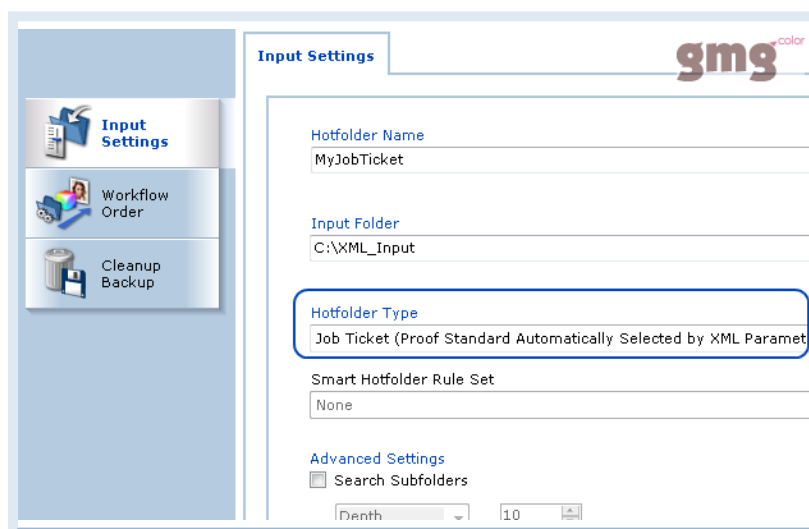
1.1 Introduction

We have incorporated the use of job tickets in our hotfolder technology, developing a new hotfolder type: the **Job Ticket Hotfolder**. A **Job Ticket Hotfolder** provides an XML interface for an easy integration of GMG ColorProof into any workflow system which is able to write a definable XML output file.



1.2 Job Ticket Hotfolder

The **Job Ticket Hotfolder** can be selected in the GMG ColorProof **Hotfolder** dialog > **Input Settings**.



The hotfolder defines only the input control itself.

Which images are recognized and how they are processed is usually defined in the **Workflow Properties** dialog box. With job tickets, these parameters can be read from the XML nodes.

Tip If you want to edit a job created by a job ticket, double-click the job in the job list and change all required parameters in the Manual Job Manager.

Differences of a GMG ColorProof workflow connected to a Job Ticket Hotfolder

Only one workflow can be connected to a Job Ticket Hotfolder.

A workflow that is connected to a Job Ticket Hotfolder does not show the same functionalities as a regular workflow.

The following functions are grayed out or are not visible in the user interface.

- ▼ Filters (File format is set to filter for *.proof files)
- ▼ Merge Files
- ▼ Remote Proofing
- ▼ Nesting

1.3 Job Ticket Requirements

- The job ticket **must** contain the **file name** of the input file so that job ticket and image file can be associated by the software.
- The job ticket has to be **renamed** and copied into the Job Ticket Hotfolder as *.proof file.
All other referenced files can be placed in any folder that can be accessed by GMG ColorProof.

Tip Make sure the color management item (proof standard, spot color set, etc.) you are referencing in a job ticket is already available in your GMG ColorProof database.

Example Job Ticket referencing ISO Coated v2 (39L)

The nodes in the job ticket determine which files are required, where they are found, and what processes should be performed.

The following example, referencing the proof standard ISO Coated v2 (39L), gives you an impression of the required structure of the XML file.

```
<?xml version="1.0"?>
<JobTicket>
  <ProcessDefinition>
    <ColorManagement>
      <StandardName>ISO Coated v2 (39L)</StandardName>
    </ColorManagement>
  </ProcessDefinition>
  <Images>
    <Image>
      <Files>
        <File>
          <FileName t="s">Job03145_Testfile.pdf</FileName>
        </File>
      </Files>
      <Identifier t="s"> Job03145_Testfile </Identifier>
    </Image>
  </Images>
</JobTicket>
```

1.4 Supported Input Parameters

Input parameters are represented by nodes in the XML structure. The following input parameters are supported in job tickets.

Image Definitions

Root node: JobTicket/Images/Image

| <i>XML path</i> | <i>Node</i> | <i>Type</i> | <i>Description</i> | <i>Since Version</i> |
|---------------------|--|-------------------|--|----------------------|
| Files | File/FileName | String | One or more file nodes for input file names. | 5.9.0 |
| | Pages (optional) | String | It is possible to define which pages of a multi-page PDF should be processed. The XML parameter must have the following structure: <a>:= page number := page number larger than <a> <X>:=<a> <a>- <X>;<X> | 5.9.0 |
| | Identifier (optional) | String | The identifier can be any combination of words or numbers and is useful for identifying jobs throughout the workflow system. In GMG ColorProof, the identifier appears in the Info pane, Image Label, and Job Ticket Report. | 5.9.0 |
| Channels (optional) | Channel/Color/Name | String | Name has to be identical with image channel's name. The channel node has to be defined for each image channel. | 5.9.0 |
| | Channel/ScreenInfo/Angle (optional) | Double | DotProof screening parameter. The channel node has to be defined for each image channel. | 5.9.0 |
| | Channel/ScreenInfo/Size (optional) | Double | | 5.9.0 |
| | Channel/ScreenInfo/SizeUnit (optional) | Double (lpcm/lpi) | | 5.9.0 |

Image processing

Root node: JobTicket/ProcessDefinition

| <i>XML path</i> | <i>Node</i> | <i>Type</i> | <i>Description</i> | <i>Since Version</i> |
|-----------------------------------|-----------------------|-------------|--|----------------------|
| | JobName (optional) | String | Name of the resulting job. | 5.9.0 |
| PrintingFunction (optional) | HeldBeforePrint | Boolean | With this option, the job is created and put on hold in the job list. | 5.9.0 |
| PrintingFunction/Scale (optional) | ScaleX; ScaleY | Double | The scaling can be defined in each dimension. | 5.9.0 |
| PrintingFunction/Crop (optional) | Left/Right/Top/Bottom | Double | Cropping information can be referenced by defining values for Left, Right, Top and Bottom. | 5.9.0 |
| PrintingFunction (optional) | Copies | Integer | Number of printed copies of current job ticket. | 5.9.1 |

Color Management and Mapping

Root node: JobTicket/ProcessDefinition

| <i>XML path</i> | <i>Node</i> | <i>Type</i> | <i>Description</i> | <i>Since Version</i> |
|--|-----------------------------------|---|--|----------------------|
| ColorManagement (optional) | StandardName | String | Proof standards can be referenced by inserting their name as used in GMG ColorProof. Note: PDF DotProof jobs require screening parameters. | 5.9.0 |
| | ProfileName | String | Custom profiles can be referenced by inserting the profile path. | 5.9.0 |
| ProofControlValidation (optional) | FilePathName | String | Path of the ProofControl standard XML file that will be referenced to validate the image. | 5.9.0 |
| | ChannelMappingRuleName (optional) | String | System rule that will be applied on the image. | 5.9.0 |
| ChannelMappingRule/ ChannelMappingRuleDetails/ ChannelMappingRuleDetail | ActionType | ReplaceRuleDetail, DontPrintRuleDetail, DefineRuleDetail, MapToDB3 | Specifies the type of the channel mapping: Image channels can be replaced (ReplaceRuleDetail), renamed, or not printed (DontPrintRuleDetail). It is possible to redefine a channel color (DefineRuleDetail) with CMYK or LAB values. To map a channel to a spot color, select MapToDB3. | 5.9.0 |
| | InputChannelName | String | Name of the corresponding input channel. | 5.9.0 |
| ChannelMappingRule/ ChannelMappingRuleDetails/ ChannelMappingRuleDetail/ DefineRuleDetail/ Lab (optional) | L; a; b | Double | Color space values. | 5.9.0 |
| ChannelMappingRule/ ChannelMappingRuleDetails/ ChannelMappingRuleDetail/ DefineRuleDetail/ CMYK (optional) | c; m; y; k | Double | | 5.9.0 |
| ChannelMappingRule/ ChannelMappingRuleDetails/ ChannelMappingRuleDetail/ DefineRuleDetail | AliasName (optional) | String | Channel name alias that will be replaced by ReplaceRuleName. | 5.9.0 |
| SpotSets/SpotColorSets (optional) | Name | String | Available sets of spot color database. | 5.9.0 |
| | Priority | Integer | Order of processing. Note: In case of nesting, job tickets will be nested in job with same spot sets. | 5.9.0 |
| ColorGradationMapping/ ColorGradationMappingRuleDetail (optional) | ColorName | String | Channel name. | 5.9.0 |

| <i>XML path</i> | <i>Node</i> | <i>Type</i> | <i>Description</i> | <i>Since Version</i> |
|-----------------|----------------------|---|--|----------------------|
| | GradationPath | String | Gradation file (*.sfg). | 5.9.0 |
| Sharpening | CurrentSharpness | Enum: NoSharpness, ThreeDSharpness, UnsharpMask | General switch to switch on the Sharpen function and set the mode: Off, 3D Sharpness , Unsharp Mask | 5.9.1 |
| Sharpening | SharpnessRGB | Integer | 3D Sharpness: Sets the sharpness level for RGB images. | 5.9.1 |
| Sharpening | SharpnessCMYK | Integer | 3D Sharpness: Sets the sharpness level for CMYK images. | 5.9.1 |
| Sharpening | UnsharpAmountCMYK | Integer | Unsharp Mask: Sets the Amount for CMYK images. | 5.9.1 |
| Sharpening | UnsharpRadiusCMYK | Integer | Unsharp Mask: Sets the Radius for CMYK images. | 5.9.1 |
| Sharpening | UnsharpThresholdCMYK | Integer | Unsharp Mask: Sets the Threshold for CMYK images. | 5.9.1 |
| Sharpening | UnsharpAmountRGB | Integer | Unsharp Mask: Sets the Amount for RGB images. | 5.9.1 |
| Sharpening | UnsharpRadiusRGB | Integer | Unsharp Mask: Sets the Radius for RGB images. | 5.9.1 |
| Sharpening | UnsharpThresholdRGB | Integer | Unsharp Mask: Sets the Threshold for RGB images. | 5.9.1 |

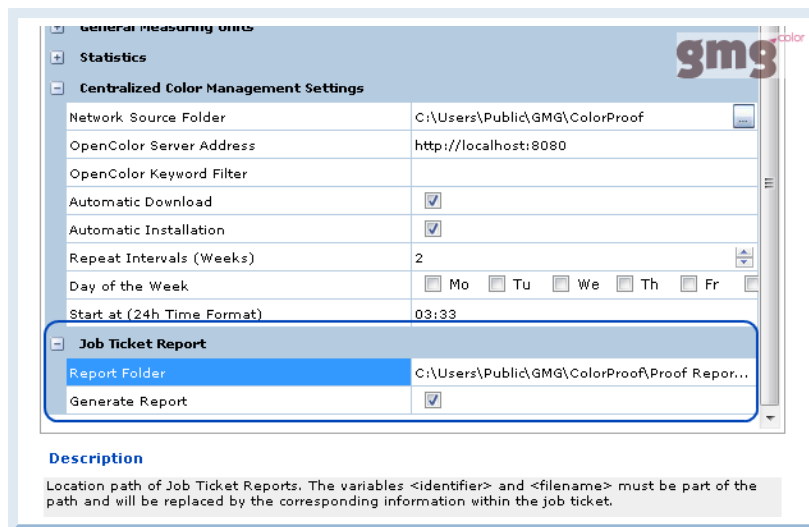
Remote Processing

Root node: JobTicket/ProcessDefinition

| <i>XML path</i> | <i>Node</i> | <i>Type</i> | <i>Description</i> | <i>Since Version</i> |
|-----------------------|--|-------------|---|----------------------|
| RemoteSite (optional) | ExportJobForRemoteProofing | Boolean | Enable job for remote proofing. | 5.9.0 |
| | PrintOnLocalPrinterBefore Exporting (optional) | Boolean | In addition print job locally. | 5.9.0 |
| | FtpServerUrl | String | Ftp connection details for Remote ColorProof. | 5.9.0 |
| | FtpPort (optional) | Integer | | 5.9.0 |
| | FtpUserName | String | | 5.9.0 |
| | FtpPassword (optional) | String | | 5.9.0 |
| | FtpTargetDirectory (optional) | String | | 5.9.0 |
| | TargetPrinter | String | Printer name. | 5.9.0 |
| | NetworkLocation | String | Use network location instead of FTP. | 5.9.0 |
| | RemoteSiteName | String | Remote connection name to find in ColorProof. | 5.9.0 |

1.5 Job Ticket Report

If a file has been processed with a job ticket, GMG ColorProof generates a **Job Ticket Report** XML. It contains all results of the processing steps (e.g. the used standard or profile, channels, verification results). The location path of the report can be configured in the **System** view > **General** tab.

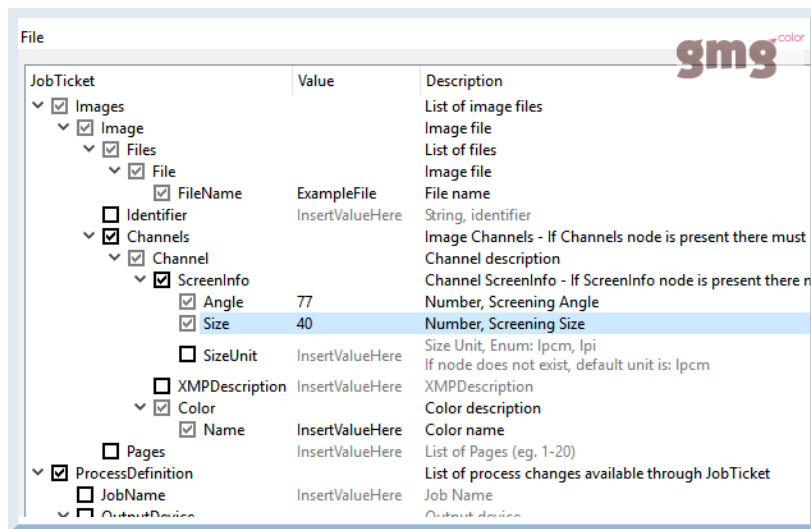


The below screenshot of an example report, shows the job name in GMG ColorProof, used calibration and media, and the image dimensions. The report details comprise all important information concerning the color management and the used proofing components, and provide useful information on the color accuracy based on the control strip measurements.



1.6 Job Ticket Creator

The GMG Job Ticket Creator gives you an easy-to-use solution to create XML-based job tickets. It provides an intuitive interface to quickly define the desired definitions and processes of your workflow.



How to create an XML job ticket

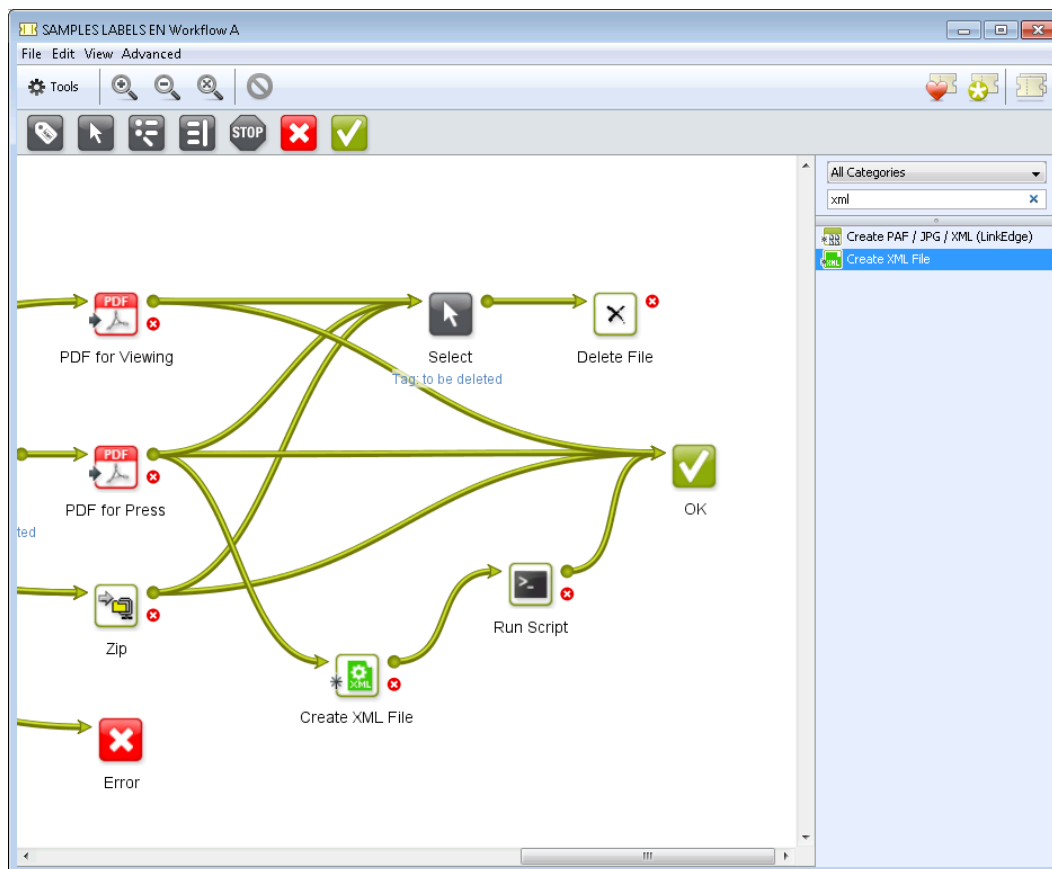
1. Click the triangle button next to the path or node to expand the XML path to the node you want to edit.
2. Activate the check box of the XML path you want to edit.
3. Enter the desired values in the respective **Value** field.
4. Click **File > Save** to save your job ticket as an XML.

2. Creating a Job Ticket for Use in GMG ColorProof with Esko Automation Engine

In the following example, we show you how to create an XML output file for use in GMG ColorProof with the workflow software Esko Automation Engine 12. The example shows the basic steps and can easily be transferred to other workflow solutions.

Rename the file extension

1. Copy the batch file *RenXMLtoPROOF.bat* to C:\Esko\bg_data_fastserver_v100\Scripts\Batch (This batch file is required to rename file extensions, in this case *.xml files to *.proof files.)
2. Add step **Create XML File** into your workflow.
3. Add **Run Script** after XML creation step for renaming *.xml file extension to *.proof.



Configure the XML output

The next step is to create a dynamic XML, for example [File], to insert the **file name** of the actual job in the written XML. In our example, we are using Esko **SmartName** (to open the Smart Names dialog click on the "[]").

Edit Ticket of Create XML File

Output in: [URL of Folder of originating Input of (enclosing) Workflow]/Production/ Browse

File Name: [File]_XMLforProof Browse

```
<?xml version="1.0"?>
<JobTicket>
  <ProcessDefinition>
    <ColorManagement>
      <StandardName>ISO Coated v2 (39L)</StandardName>
      <StandardId t="s">f87a82e8-8d50-4920-8614-802ca6a87efb</StandardId>
    </ColorManagement>
  </ProcessDefinition>
  <Images>
    <Image>
      <Files>
        <File>
          <FileName t="s">[File].[Extension of File]</FileName>
        </File>
      </Files>
      <Identifier t="s">[File]</Identifier>
    </Image>
  </Images>
</JobTicket>
```

☒ Replace reserved characters in SmartName values with XML entities

☐ Validate XML

Save As... Manage Public Parameters... OK Cancel

Configure the Run Script

Ensure that you have copied the batch file *RenXMLtoPROOF.bat* to *C:\Esko\bg_data_fastserver_v100\Scripts\Batch*. Otherwise jobs will run into an error.

