



Quick Start Guide.

Prinect DFE – Version 2021.10.



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About This Documentation

This documentation applies to version 2021.10 of the Prinect DFE (Digital Front End).

The Prinect DFE is a digital printing workflow system fully based on the Job Definition Format (JDF). Prinect DFE is a component of the Heidelberg Prinect product range.

This documentation provides you with an overview of Prinect DFE. Furthermore, an example is used to illustrate how a typical process is set up and run. As an introduction to the offset printing edition, the documentation "Quick Start – Prinect Manager 2021.10" (as a PDF document) is available. See [Prinect Manager Quick Start](#).

What you should already know

We assume that you are familiar with the Windows® and Mac OS X® operating systems that are supported by this application. You should also be familiar with the processes and terms used in a digital print shop workflow.

Further Documentation

You can find more information in the following documentation:

- in the enclosed "How to get started" leaflet
- in Heidelberg Prinect Licensing - User
- in the Online Help for the Prinect Cockpit

Before you start ...

Symbols and Styles

The following typographical conventions are used in this manual:

- References to other chapters and sections are [blue](#) (on the screen) and underlined.

Example: See [section "Symbols and Styles", page 6](#).

- Quotation marks are used to indicate menus, folders, functions, hardware conditions, switch settings, system messages, etc.

Example: Set the switch to "off".

- Menus, functions and sub-functions are separated by ">".

Example: Select "File > Open...".

- A plus sign is used to indicate that several keys have to be pressed at the same time.

Example: Press Alt+A.

Important Information

Important information in the text is indicated by symbols at the side which are used as follows:



Warning: Contains information that must be taken into consideration to protect the user from injury.



Caution: Contains information that must be taken into consideration to prevent damage to hardware or software.



Note: Contains important general or supplementary information about a specific topic.



Prerequisite: Lists requirements which must be fulfilled before the steps which follow can be performed.

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Basic Concept of Prinect DFE

Prinect DFE provides functionalities for an automated Prinect workflow for output on HEIDELBERG or Gallus digital presses. This workflow spans steps ranging from preparation of the digital job data to output of the production run at the digital press and finishing of the printed products.

What are the Components of a Prinect DFE?

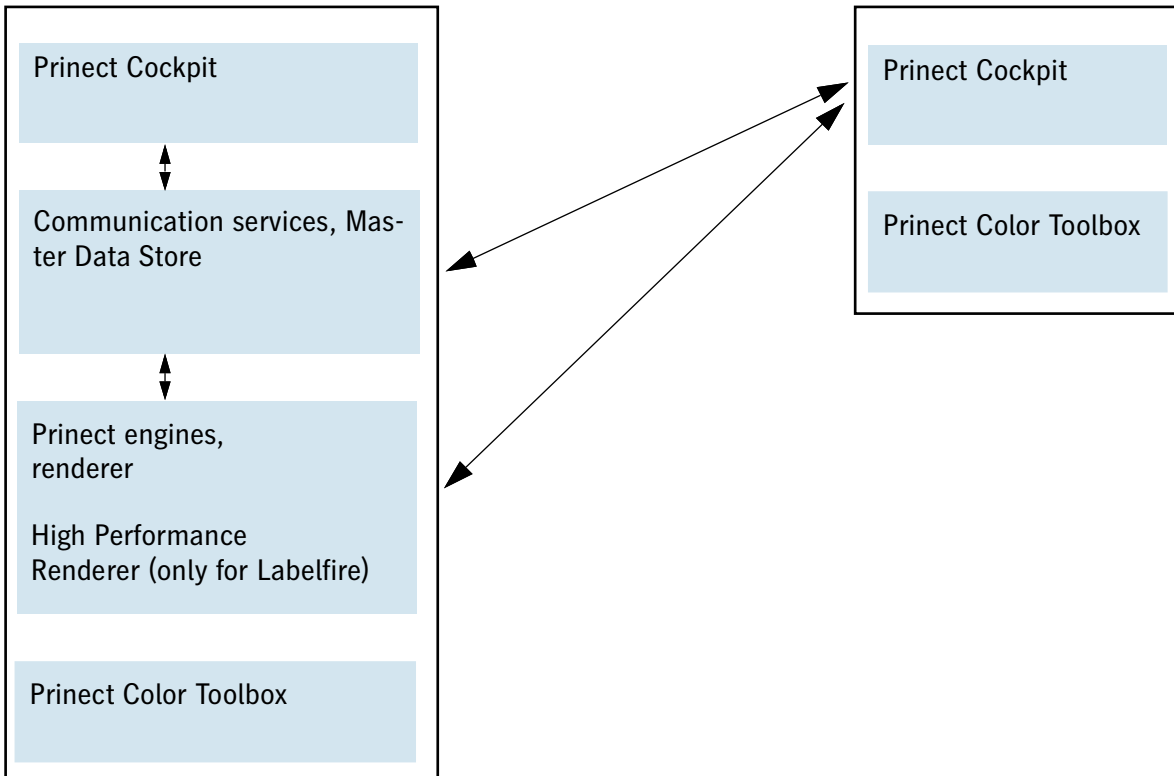
Prinect DFE is built up on the model of a server-client architecture. The core of the system consists of a central database and components that control all the processes in the system and that regulate communication flow between the single components. Important basic data like for example, printing materials, user or customer data, color profiles, are stored in the MDS (**M**aster **D**ata **S**tore). Job processing is done by "engines".

The user interface of the Prinect DFE is the "Cockpit" that can be installed as a client application on several computers in the network environment.

Introduction

DFE server PC

Additional Cockpit workstation



How Do I Use Prinect DFE?

The "Cockpit" is the central user interface for all work that a user does on Prinect DFE. The Cockpit is installed together with the DFE software on the DFE server computer. Additional Cockpit clients can be installed via the Prinect Maintenance Center (PMC) as well in a Windows as in a Mac OS operating system environment. You can perform the following tasks in the Cockpit:

- Edit basic system settings (create users and customers, enter spot colors, etc.),
- configure processing steps ("Sequences") for automated job processing and
- create jobs, compile job components (input files, sheet layouts), view and monitor jobs, submit jobs or job data for processing or for approval, check the job status.



Prerequisite: A licensed, if possible latest, version of the Adobe Acrobat Professional software should be installed on each workstation using the Prinect Cockpit. Acrobat Professional is used for various purposes during the processing of print jobs in the Prinect DFE workflow, e.g. for the visual inspection of PDF documents or for using the Acrobat plug-ins "Prinect PDF Toolbox" or "Prinect Imposition Editor". This software is not included in the

shipment of the HEIDELBERG Prinect software. The operator of the Prinect software is responsible for seeing to it that Acrobat Professional is installed on each Prinect computer before installing the Prinect DFE software.

How Does Licensing Work?



Prerequisite: HEIDELBERG offers two solutions for operating digital printing presses with the Prinect workflow: the Prinect Production Manager or the "Prinect DFE Versafire Standalone" variant. In addition to the offset workflow, the Prinect Production Manager supports all digital printing presses that are generally supported by the Prinect workflow. The "Prinect DFE Versafire Standalone" variant is intended exclusively for operating digital printing presses. To install this variant, you need the "Prinect DFE Versafire Standalone" installation package, which contains all the software components required for this variant. The "Prinect DFE Versafire Standalone" installation package can be downloaded from the Prinect Maintenance Center in the "Product installations" view. This variant is described below.

If the Prinect DFE software is to be initially installed in a system environment in which no other Prinect product is already installed, there is usually no Prinect Maintenance Center installation available in the system environment. In this case, you can download the Prinect Maintenance Center installation package from the HEIDELBERG homepage in the "Software" menu under "Prinect Software Downloads" and install it in your system environment.

See [Prinect Software Downloads](#).

After installing the Prinect Maintenance Center (PMC), you must register your company and at least one user in the HEIDELBERG customer portal in the PMC user interface and log in to the customer portal. Information on this can be found in the online help for the Prinect Maintenance Center.

How does licensing work?

With each installation of the Prinect DFE software, all software components of the "Prinect DFE Versafire Standalone" installation package are installed – regardless of the licenses purchased. The number of permanently usable options that you can use is controlled by a license key. The activation of the options and the management of the licenses is controlled by the "Prinect Licensing" module. Prinect Licensing consists of two software components, the License Server and the License Manager. The licenses are activated online via the HEIDELBERG Trust Service. As of version 2019, dongle-based licensing is no longer supported - with a few exceptions. For version upgrades, online licensing may be used.

Online licensing is based on an online protection certificate that is activated during software installation. Therefore, before installing the Prinect DFE software, you must request an installation code from the HEIDELBERG licensing department, which you enter at the appropriate point during the installation of the License Manager software to enable activation. The certificate is tied to real or virtual hardware and is automatically renewed daily. If the Internet connection to the HEIDELBERG Trust

Introduction

Service is temporarily lost, the existing certificate remains valid for 30 days. Online licensing is managed with the "Prinect Licensing" module, while the connection to the HEIDELBERG Trust Center is established via the Prinect Maintenance Center.

The License Server and the License Manager interact in a "client-server architecture". Administration of the licenses is done in the License Server whereas the License Manager depicts the user interface. The License Server is usually installed on the Prinect DFE server. In bigger system environments with a number of DFE servers, it may be advisable to set up a dedicated License Server PC. The License Manager user interface can be installed and used on multiple client computers simultaneously.



Note: You can find details about licensing in the "HEIDELBERG Prinect Licensing – User Manual" or in the License Manager Online Help.

Prinect Maintenance Center

The Prinect Maintenance Center establishes the connection in the print shop to the HEIDELBERG Prinect Software Center (for software downloads), the HEIDELBERG Trust Service (for licensing) and the HEIDELBERG customer portal Control Center.

Within the Prinect system environment, the Prinect Maintenance Center is responsible for various tasks:

- For the provision of installation files for the installation of the Prinect software in the print shop,
- for regular checking for available software updates and their provision,
- for controlling update installations, taking into account the dependencies that exist internally between the Prinect components, and
- for performing background installations that occur without user interaction.

The prerequisite for providing Prinect software components is that the printing company is registered and logged in as an organization and with a user account on the HEIDELBERG customer portal. The HEIDELBERG customer portal gives you access to the digital services of Heidelberger Druckmaschinen AG.

Sequence Templates

In the Cockpit, the processing operations are configured as "sequence templates". These templates contain all process steps that are to be carried out with the content data of the print jobs up to the actual printing process. Sequence templates contain – divided into different options – all the important settings that are required for correct print output. These templates only need to be configured once and can then be used for any number of print jobs that require the same parameterization. Sequence templates of different types can be combined to form group templates. When creating a new print job, it is usually sufficient to enter a few basic data and select the appropriate sequence templates or a group template. See ["Group Templates", page 11](#). All output parameters are predefined in the sequence templates and do not need to be configured again.

Basic sequence templates

The most important sequence types for digital print output are "Qualify" and "PagePrint". Other types of sequences are available for advanced workflow options, depending on the licensing options you have.

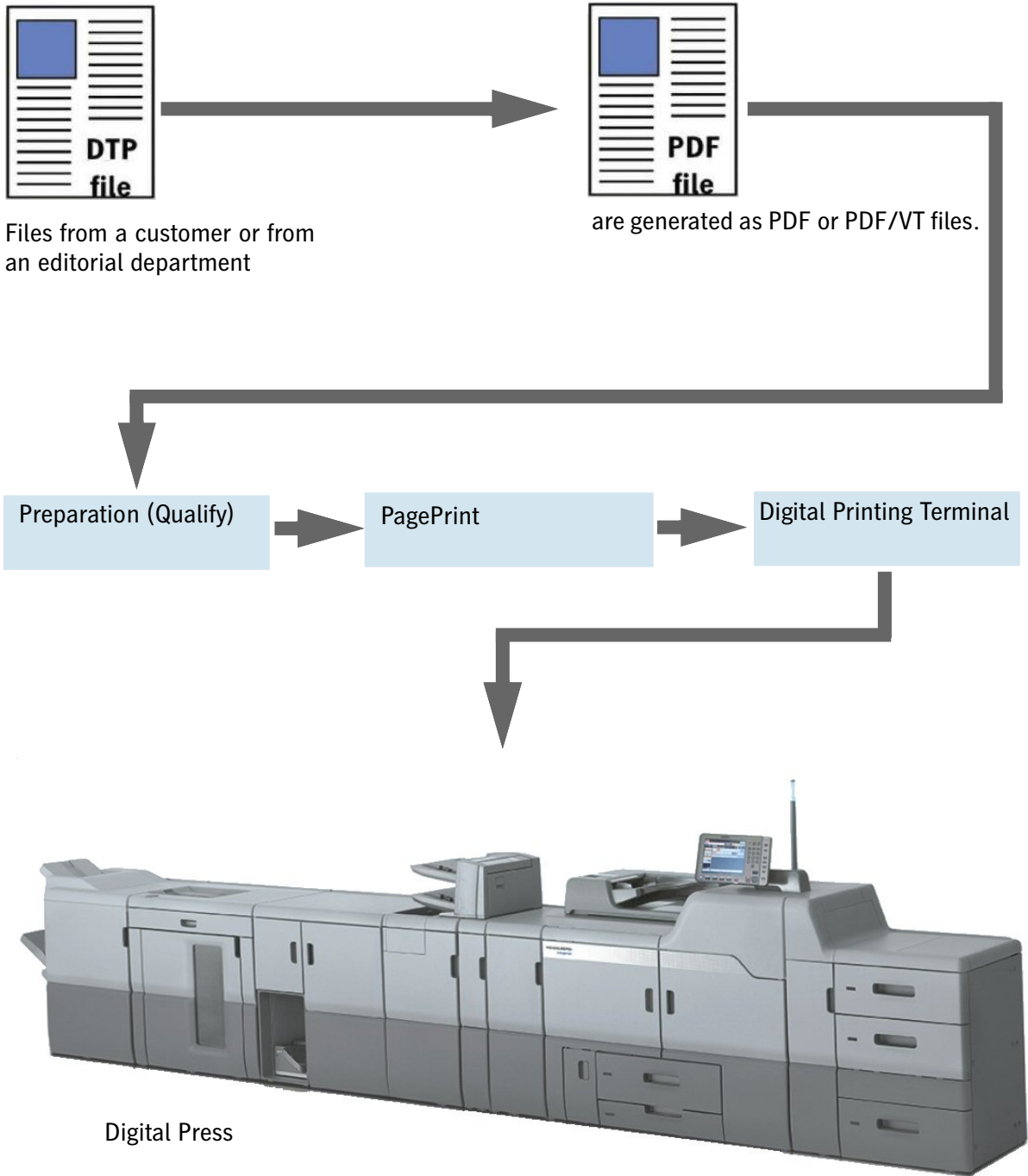
- The Qualify sequence uses a "normalization" option to prepare documents in PDF format for processing with the Prinect DFE workflow. If the PDF format is not suitable for processing with the Prinect DFE workflow, these PDF documents can be prepared with the "normalization engine" so that further processing can take place in the Prinect DFE workflow ("refrying" process). In principle, the input documents must be in a cleaned PDF format that is suitable for the subsequent process stages. In a "preflight" option, the input documents can be checked for the presence of all required fonts, the correct image resolution, the use of transparencies, etc. The preflight settings can be adapted to the respective requirements.
- After completing the Qualify sequence, the pages can be processed using a "Prepare" sequence. This is necessary, for example, if transparencies contained in multiple layers of a PDF document are to be reduced to one layer. The Prepare sequence also offers advanced color management options.
- In a PagePrint sequence, output to a digital press is configured. In this case, the majority of the print parameters are defined interactively during job processing.
- An ImposedPrint sequence is used to configure the sheet output for digital printing. This sequence type enables the output of fully imposed sheet layouts on digital printing presses.

Group Templates

To configure a standardized processing, you can group several sequence templates into "group templates". In a group template, individual sequences can be connected to one another by graphically drawing connecting lines. Sequence templates connected in this way are automatically executed one after the other without the need for user intervention. Connecting sequence templates is optional and in the examples shown below the sequence templates are not connected. You can save separate group templates for different sequence configurations.

Job Processing Workflow

The graphic below shows you a diagram of the basic workflow in processing job files in the Prinect DFE workflow:



1. The printing company's customer delivers the documents and/or images required for the print job to the printing company in the form of PDF files or image files (e.g. in JPEG format). The complete definition of the print job can be done in a web shop, for example, and also the PDF and image files can be transferred to the printing company this way.
2. When the input files are available at the print shop, a new job is created in the Prinect Cockpit. If several print jobs are expected for a specific customer, a job group can be created in which the print jobs of a customer are grouped together. It is also a good idea to enter the customer's data (name, contact person, etc.) in the Prinect customer management and assign the new job to the customer.
3. When creating a new print job, you can assign several sequence templates or a group template to the job.
4. After a print job has been created in the Prinect DFE workflow, it is opened in the cockpit. Existing settings can now be checked and adjusted if necessary. For example, individual sequence templates can be modified.
5. After the job has been created, the files to be printed are added to the job. The job can be defined as "started" when it is created. The added files are then processed immediately – usually with a "qualify" sequence, which contains a preflight step that checks the files for possible errors (missing fonts, image resolutions that are too low, etc.). Job parameters such as color settings (color sequence, handling of special colors, etc.) can then be configured.
6. You can also optionally define job templates for automatically creating new print jobs. Then you just need to transfer the files to be output into a hot folder using "drag & drop" and a new job will be automatically created with the default settings of the job template (see [section "Automatic Creation of New Jobs using Drag-and-Drop", page 67](#)).
7. For output to a digital printing press, the individual pages must be imposed. This is done either interactively in the "Digital Printing" step, or in a preceding step in which the sheet layouts are imposed separately (e.g. with the Prinect Signa Station or with the Prinect Imposition Editor). In this case, an ImposedPrint sequence is used for the digital printing output, rather than a Page-Print sequence. All settings for the print output – including the finishing – are made in the "Digital Printing" step.
8. After the configuration of the "Digital printing" work step is completed, the print jobs are forwarded to the digital printing terminal (part of the Prinect Cockpit). The digital printing terminal can be used in two operating modes:
 - In automatic mode, incoming print jobs are automatically forwarded to the digital printing press, i.e. without the need for operator intervention. If there are several "similar" digital printing presses in the system environment, these printing presses can be combined to form a "cluster". These machines can then be operated in "load balancing" mode, i.e. the digital printing press that is currently available or is least busy is automatically controlled. See ["Set up the cluster configuration", page 40](#).
 - In manual mode, the operator controls the order in which the print output occurs and – if several digital printing presses are available – which printing press is addressed.
9. The print jobs arrive at the digital press from the Digital Printing Terminal and are output on the press.

Set up Users



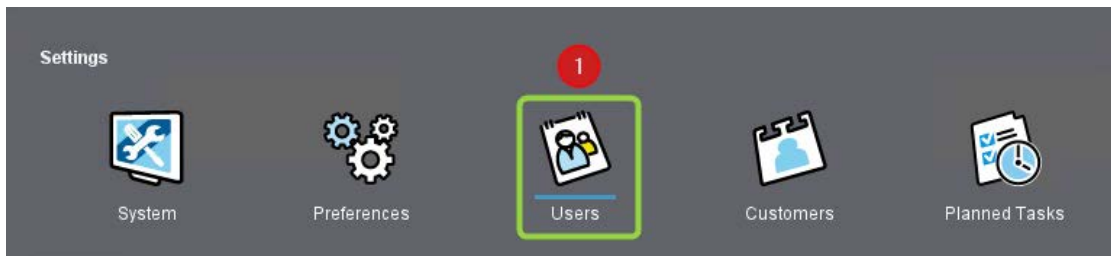
Prerequisite: Before you set up new users in the Prinect Cockpit, the corresponding user accounts must be set up in the Windows system administration of the Prinect DFE Server computer. The future Cockpit users must first be defined with a Windows user account on the Prinect DFE Server and be a member of the Windows user group "Prinect Operators". Without this setup and configuration as a Windows user, the Prinect users cannot make any changes to the settings or to the job data in the Prinect Cockpit. You can find more information in the Cockpit Help under "Setting up a new Prinect user".

After installing the Prinect DFE software for the first time, you must set up the print shop employees who are to operate the Prinect DFE workflow as "Prinect users". During setup, you assign the intended roles to the individual users by assigning them to a specific user group and assigning the corresponding access rights. You can access user management in the "Administration" view of the Prinect Cockpit under "Users".



Note: If the Prinect DFE software has been newly installed, you can log in to the Prinect Cockpit with the user name "Administrator" without a password to set up the users. For security reasons, we recommend that you then delete the user "Administrator" from the user management.

1. Go to "Administration" and click "Users" (1).



2. User administration opens. Click the "New" button. The "Create User" dialog opens:

Enter the following user data:

- The user name: Enter the user name (in the example "PeterP"). This user name is used as a user account within the Prinect environment – especially in the Cockpit. At the same time, this user account must be defined as a Windows user on the operating system of the DFE server computer (see "Requirements" above). In order to use the corresponding Windows user account as a Prinect user account, the "Password for OS login" option must be activated. Only if an appropriately configured Windows user account is used for the Prinect user at the same time can the Prinect user access the "PTConfig", "PTJobs" and "PTDocs" folders with write permissions when the protection function is activated. Without these permissions, no changes to the settings or job data can be made or saved in the Cockpit. Enter a user name here that is defined as an appropriately configured Windows user on the Prinect DFE server computer. This (or another appropriately configured) user account will be used to log in to the Cockpit in the future.



Note: If you operate the Cockpit on a computer other than the Prinect DFE server, i.e. on a Windows or Mac client, the Prinect user does not have to be a system user on the client computer at the same time, but only on the Prinect DFE server.

- Optionally, you can specify the name of a Windows domain if the Prinect DFE server and – if present – the client computers and the corresponding users are organized in a domain.

For further information on the protection function, please refer to the Cockpit Help under "Administration > Security".

Introduction

3. In the "Person" area, you can enter additional, personal data about the user (email, employee number, first name, last name). Optionally, you can select a profile picture of the user in the file system and assign it to the user.
4. Confirm the dialog with "OK". The new user is now displayed in the "Name" column. Mark this table entry and assign the user the user groups of which he should be a member by marking the desired groups in the "Available groups" list and adding them to the "Member of" list by double-clicking them or by clicking "Add".



Note: In the vertical tabs "Groups" and "Access Rights" (top left of the window) you can edit or redefine user groups and configure the corresponding access rights. You can find more information about this in the Cockpit Help under "Administration – Users".

5. Finish the user configuration by clicking "Save". Click on "Overview" to leave the "Users" administration area.

Set up Customers

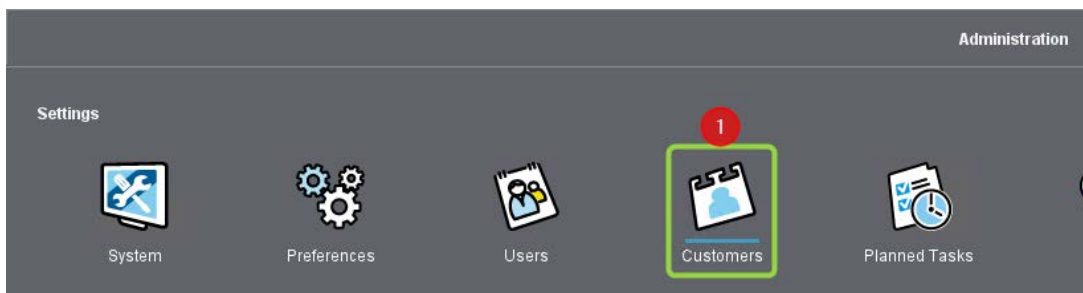
In everyday use of the Prinect DFE workflow, the processed jobs are normally assigned to the relevant customers. For this purpose, Prinect DFE contains its own customer management. The customer information is stored in the master data store and is available at various locations in the Prinect environment.



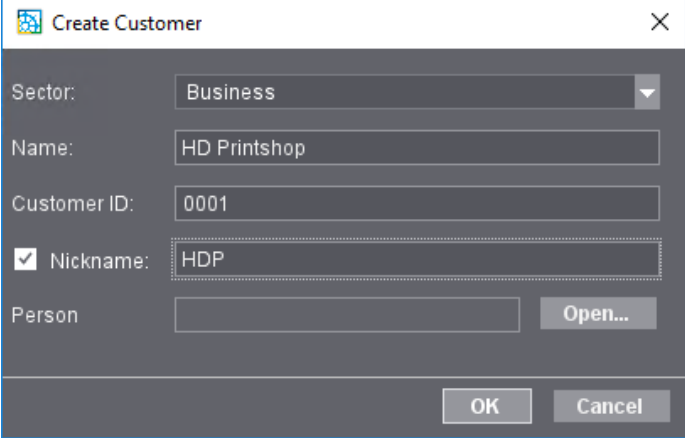
Note: Detailed information on customer management can be found in the Prinect Cockpit online help.

In order to be able to assign a customer to the demo jobs, a "virtual customer" is set up here as an example:

1. Go to the "Administration" area and click on the "Customers" icon (1).



2. The customer management opens. Click on the "New" button. The "Create customer" dialog opens.



The screenshot shows a 'Create Customer' dialog box with the following fields and values:

- Sector: Business
- Name: HD Printshop
- Customer ID: 0001
- Nickname: HDP
- Person: [Empty] Open...

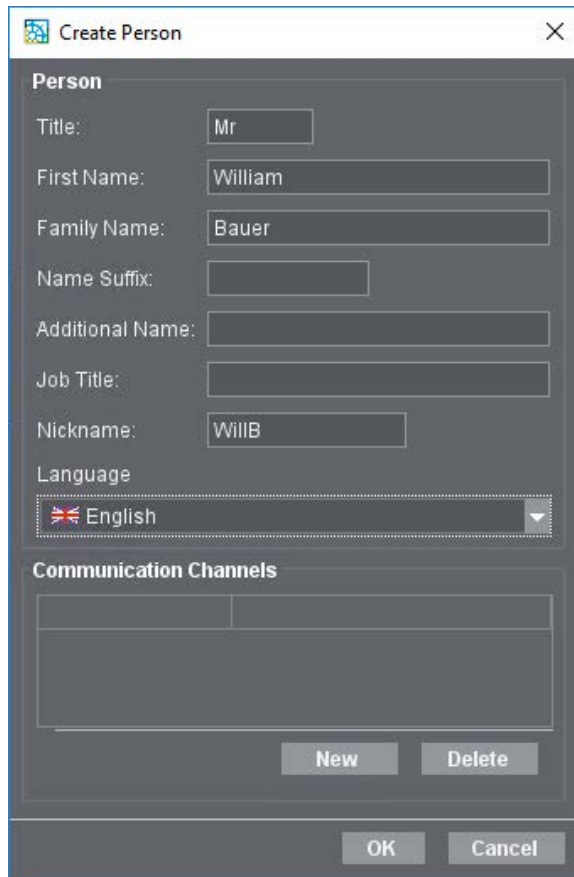
Buttons: OK, Cancel

Enter the following customer data:

- Sector: Business
- Name: HD Printshop
- Customer ID: 0001
- Nickname: HDP

3. Click "Open" beside "Person". The "Create Person" dialog opens:

Introduction



Person

Title: Mr

First Name: William

Family Name: Bauer

Name Suffix:

Additional Name:

Job Title:

Nickname: WillB

Language
English

Communication Channels

New Delete

OK Cancel

Enter the following personal details:

- Title: Mr.
- First Name: William
- Family Name: Bauer
- Nickname WillB
- Language: English

These details about the contact are enough for our purposes. In "Communication Channels", you can enter data such as phone number, mobile number, e-mail address, fax number or Web address.

Confirm the "Create Person" dialog with "OK".

Then confirm the "Create Customer" dialog also with "OK".

4. The "Customers" window now displays your new customer at the top left of the customer list.

The screenshot shows the 'Customers' window in the Princt DFE. The 'Address' section is filled out with the following information:

- Name: HD Printshop
- Street: Hauptstraße 1
- PO Box:
- Postal Code: 10111 City: Berlin
- Region: Berlin
- Country Code: DE Country: Deutschland
- Extended Address:

The 'Person' section is also filled out with the following information:

- Title: Mr
- First Name: William
- Family Name: Bauer
- Name Suffix:
- Additional Name:
- Job Title:
- Nickname: WillB
- Language: English

The 'Communication Channels' and 'Details' sections are empty. The 'Save' button is visible at the bottom right of the window.

Mark your customer and fill out the "Address" section.

- Street: Hauptstraße 1
- Postal Code: 10111
- City: Berlin
- Region: Berlin
- Country Code: DE
- Country: Deutschland

5. Confirm your inputs with "Save". Close the "Customers" window by clicking "Overview".

Create a Job

In the Princt DFE workflow, a job contains all the information and files required for processing. New jobs are created in the "Jobs" view using the "New job" button. When defining a new job, the following information is requested:

- Basic job data
 - Job Number

You must assign a job number to each job. A job number generally consists of a number of letters and/or digits. The job number identifies each job in the DFE system. For that reason, each job must have a unique job number. This is checked when you enter a new job number. If the job number you entered already exists, the number displayed is red and you cannot enter any more data until you enter a job number that is not yet used.

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- Job Name

The job name is the identifier that is used to display a job in the Cockpit user interface. The job name, too, must also be unique in the system. This means that you must give each job a job name that is not yet used as a job name in the system. If you hit the Tab key after entering the job number, the job number is copied automatically to the "Job Name" box. You can use the job number also as the job name or you can edit this entry.

- Documents

Here you can assign PDF or image files to the job when you create it. To do this, click on the "Browse" button and select the relevant files in the file system. You can also skip this step and add the document files later, after the job has already been created and opened.

- Job Group

Generally, it is advisable to create each job in a job group. This lets you use a separate group, for example, for each customer you have or you create a "pool group" for single jobs of various customers. If an job-related group structure already exists in the system, the group that was selected before clicking the "New Job" button is entered in this field. By clicking on "Change" you can select another existing group or create and select a new group.

- Job Home

This field defines the folder in which all job-related files are stored in the file system. The job files are normally stored in the "PTJobs" system folder (e.g. E:\PTJobs) of the DFE server and here in the "Jobs" subfolder. A subfolder with the name of the job group is created within the "PTJobs" folder and within this a folder with the job name. All job-related files are stored in this folder. If you want to deviate from this specification, you must click on the "padlock" symbol. This removes the link between the job group and the job folder and you can select a different folder for the job files by clicking "Change". We recommend that you only do this in exceptional cases, as the default settings ensure that the job files can be found quickly in the system. Since the "PTJobs" folder is shared on the network, the job files can also be accessed from other computers in the system environment – e.g. from other cockpit computers. In addition, the central storage of all order files makes data backup easier.

- Customer Data

The assignment of customer data to a job is optional, but it is strongly recommended that you use the Prinect customer management (see [section "Set up Customers", page 16](#)) and assign a corresponding customer account to each job. The customer names registered in the customer management are offered for selection in the "Customer name" selection list. The "Customer ID" and "Nickname" fields are then filled in automatically.

- Customer Job ID

The assigned Prinect job ID is entered by default in this box. You can enter a "customer job ID" in the case that your customers use their own job IDs that are different to the Prinect job IDs.

- Customer Job Name

Similar to a customer job ID, you can enter a different customer job name in the case that your customers use their own job names that are different to the Prinect job name.

- Processing

In this view, you can assign one (or more) sequence templates or one (or more) group sequence templates to the job using "Add". This assignment determines how the job is processed using the Prinect DFE workflow. The work steps defined in the sequence templates can still be edited individually after the job has been created. You can also save the selected sequences as a template for automatically generated jobs (see also [chapter "Automatic Creation and Output of New Jobs using Drag-and-Drop", page 67](#)). You can also skip this step for now and assign the required sequence templates later in the open job.

- Scheduling

In this step, you can enter details about the following scheduling data:

- Set Due Date

You can select a date for the scheduled due date by clicking the calendar icon. This date is for logging only and does not control the time printing will run.

- Responsible

Enter the name of the Prinect user who is responsible for processing the job. By default, this is the name of the user logged in to the Cockpit. Using "Select", you can select a different name from the Prinect user administration. The user must have the required permissions in the Prinect system.

- Job type

You can select one of the following job types in the list box: Production, Product, Preliminary job, CAD (for packaging printing), Reuse, Job Template, Cloud.

- Job Priority

You can assign a priority to each job. For example, this lets you set that very urgent jobs are given a higher priority and are processed before other jobs.

- Pages

Generally, the job data or information from the customer tells you how many pages the job has. Together with the planned delivery quantity, you can estimate how big a job will be.

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- Delivery quantity

The delivery quantity indicates how many copies of each printed product are to be printed.

The new job is created after you click "Finish" and opens immediately if the "Start Job" option is enabled.

Processing Steps and Parameters of a Prinect Job

In the Prinect workflow, each print job goes through several processing steps before being printed. The properties of a Prinect job can be viewed and configured in different parameter areas in the "Jobs" view of the Cockpit. After the job has been set up, it is started and the processing steps are carried out one after the other.

A job contains the following parameter sections and/or processing steps:

- "Product Description" section

This is where data like delivery quantity and details about the customer for whom the job was created are entered.

- "Processing" Section

This is where the processing sequences or group sequences are added to the job and displayed in a graphic overview. Sequence settings can be edited individually here (by double-clicking on the respective sequence symbol).

- "Properties" Section

This is where other properties like delivery quantity, pages planned in a job, predecessor job details or gang job details are recorded.

- "Colors" Section

Here, the type of output of the printing colors defined in the job (color definitions, color sequence, usage, etc.) is configured.

- "Printing Process" Section

Parameters relevant to the printing process (e.g. the printing order of the pages or the output color profile) are displayed or configured here.

- "Documents" Step

Document (PDF files or image files) are added to the job in this step.

- "Pages" Step

In this step, page lists are defined and the document pages are assigned to the page list placeholders. In the examples described below, this happens automatically, so this step does not have to be processed manually.

- "Digital Printing" Step

In the "Digital Printing" step, pages are imposed interactively and you set output and finishing options. Furthermore, this step has options for examining the imposed sheets in detail (magnifier function, etc.) and you can, for example, view a preview of a finished booklet in which you can also scroll through.

- "History" Section

List of the actions performed throughout the job.

Set up a Cluster of Digital Presses

You can combine several Versafire digital printing presses (Versafire EV/EP or newer) into a cluster. You can then forward print jobs to the cluster. This means that it is only decided at the moment of printing which of the printing presses belonging to the cluster will be used for printing. If the digital printing terminal of the Prinect Cockpit is operated in automatic mode and a cluster of digital printing presses is selected as the output destination, these digital printing presses are automatically used to their full capacity, as the machine with the highest availability is always used. In manual mode, you can select either one of the individual machines or the cluster and submit the print jobs accordingly.



Note: When setting up a cluster, you should note that the presses involved have properties of the same value, e.g. that they have the same paper size, the same printing materials and the same colors as well as the same finishing options, if required, because presses configured in the cluster are operated in "Load Balancing". In other words, it is automatically decided during operation which machine is to be driven. However, some properties of the printing machines can be configured as selection criteria for the automatically controlled printing presses. See also ["Set up the cluster configuration", page 40](#).

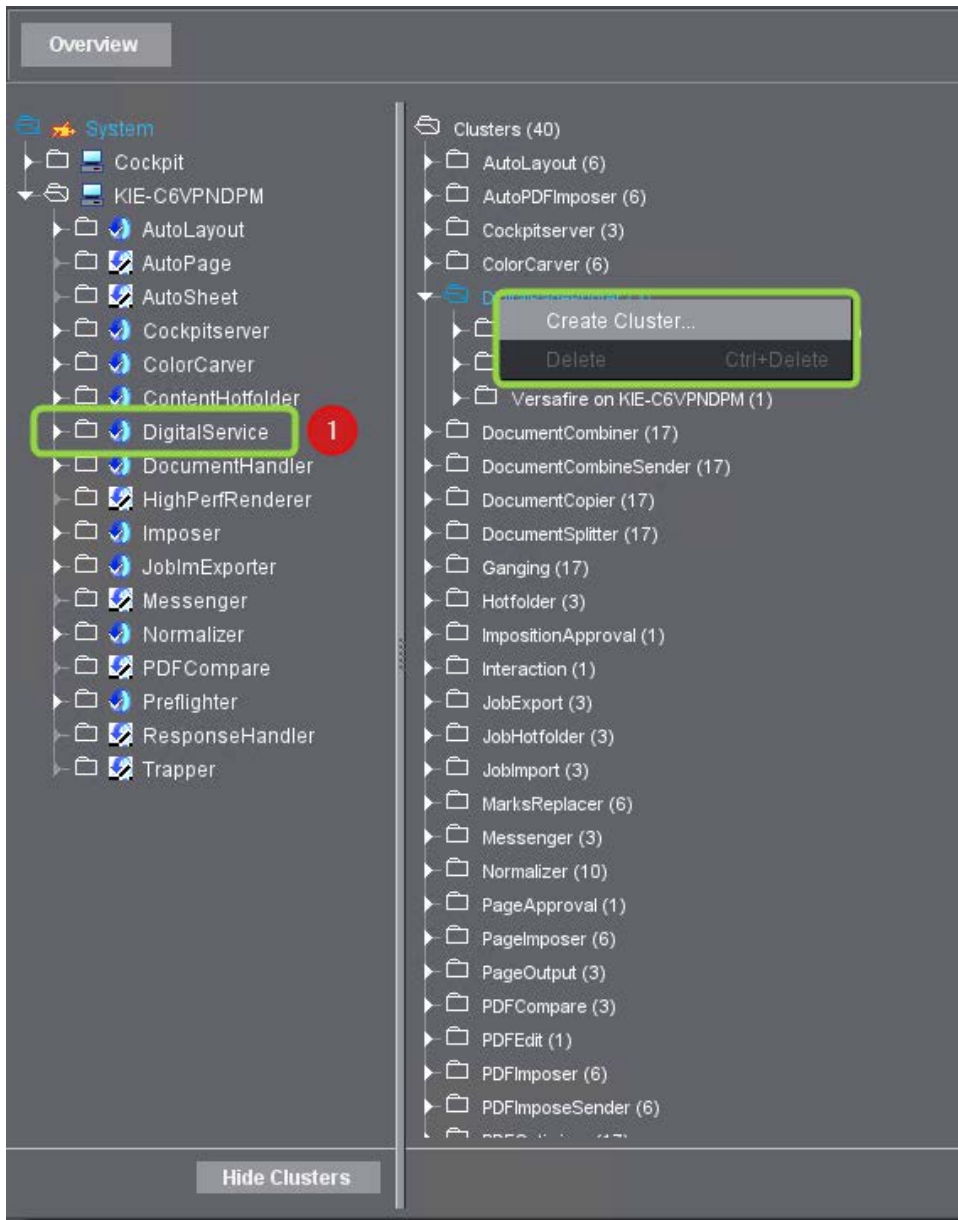


Prerequisite: At least two suitable digital presses are available and set up in the Prinect DFE system environment. In the following example, two Versafire EM digital presses are to be combined to one cluster.

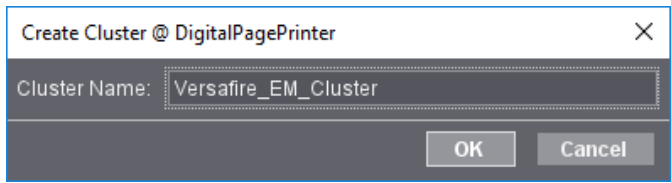
Proceed as follows to set up a cluster made up of digital presses:

1. In the Cockpit, open the "Administration > System" view, select the DFE server entry in the structure view on the left and click on the "Show Clusters" button.
2. Mark "DigitalPagePrinter" in the right pane and select "Create Cluster" in the context menu.

Introduction

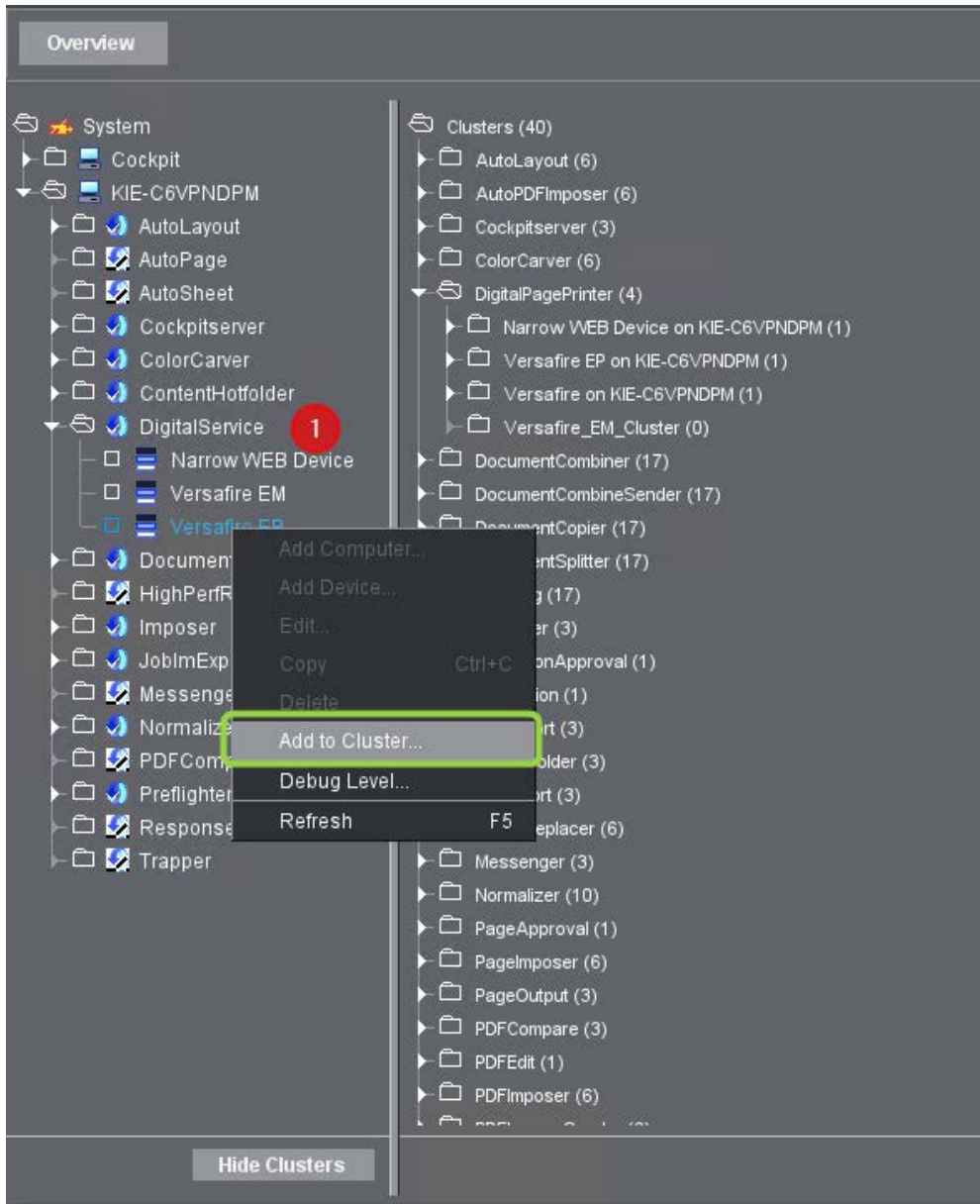


3. Enter a name for the cluster and confirm with "OK".



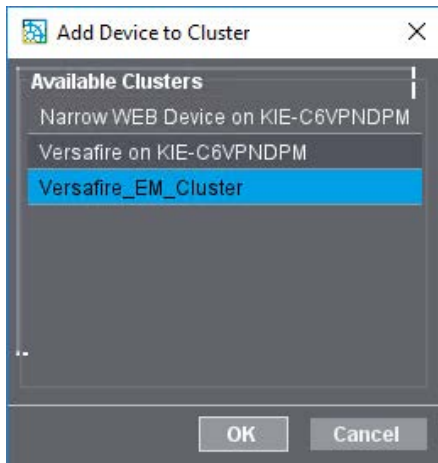
The cluster is created. The presses must now be assigned to the cluster.

4. In the left pane, below "Digital Serices" (1) select the first Versafire machine and select "Add to Cluster" in the context menu.

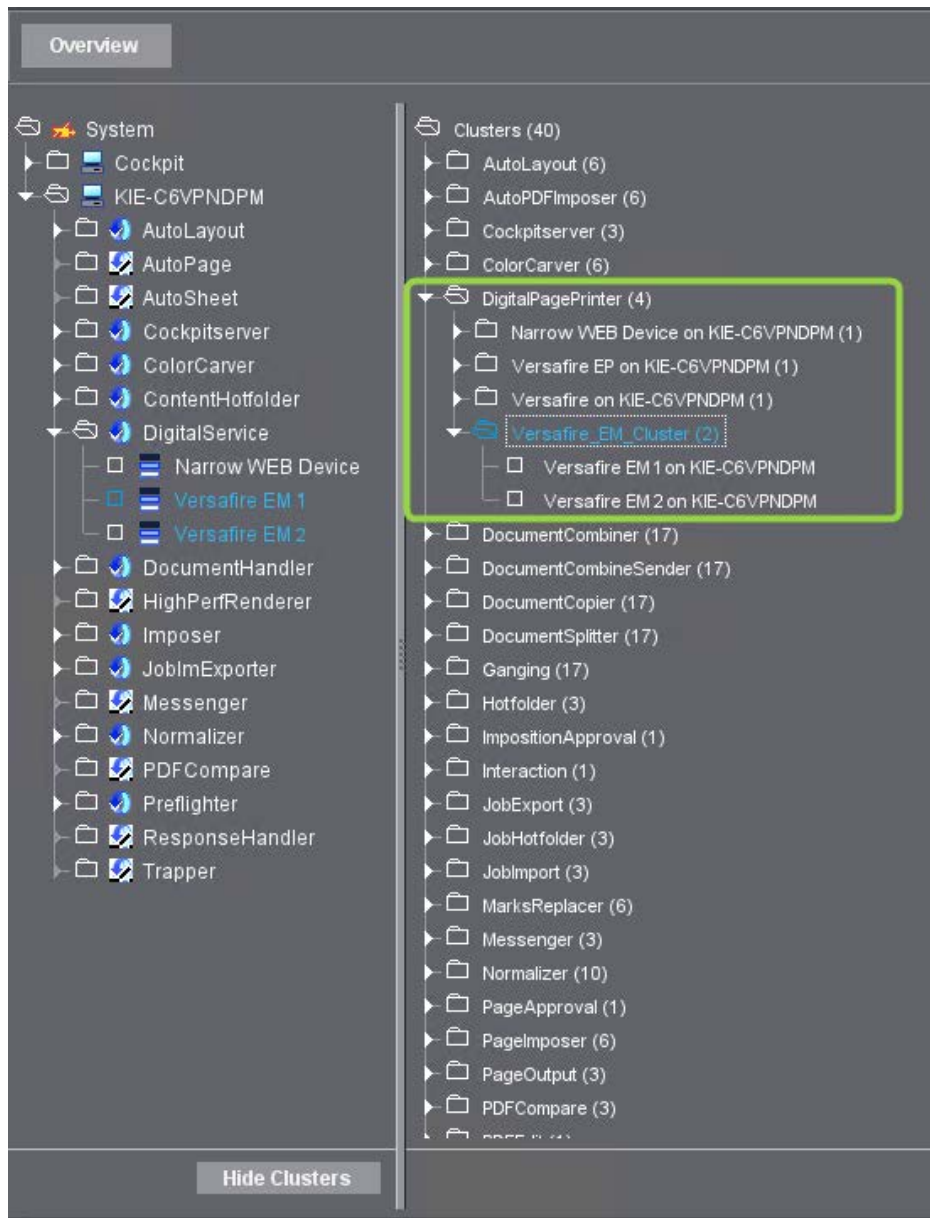


The "Add Device to Cluster" dialog opens:

Introduction



5. Select the cluster created beforehand, in the example "Versafire_EM_Cluster", and confirm with "OK".
6. Repeat steps 4 and 5 for the second Versafire machine. Now both Versafire machines are included in the cluster.
7. Check the setup by clicking the triangle in front of "DigitalPagePrinter" in the right pane. The content of this item displays. If you click the triangle in front of "Versafire_EM_Cluster", the two digital presses in the cluster display:



8. Now you can switch back to the "normal" view by clicking "Hide Clusters".

Configure Sequence Templates



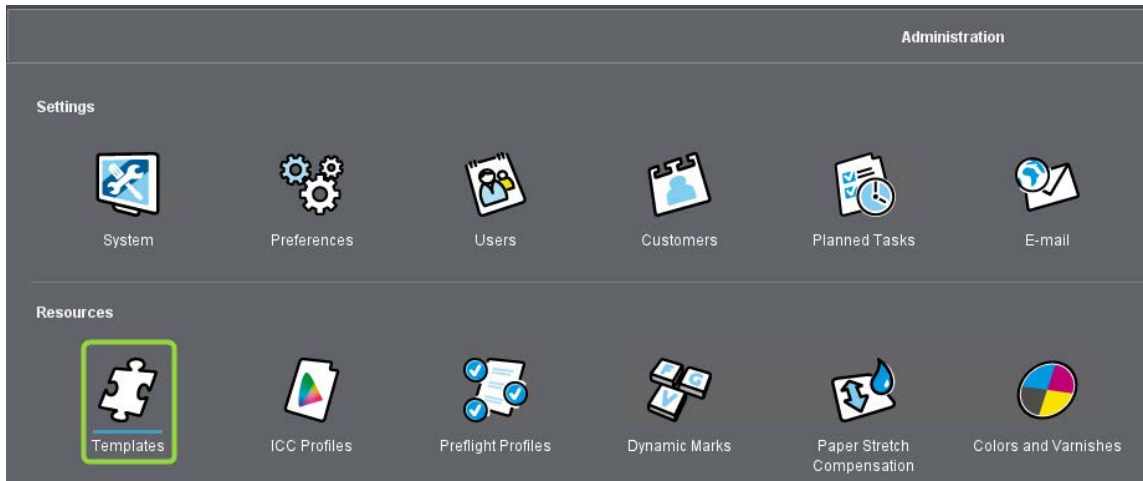
Prerequisite: In order for the "PagePrint" sequence needed for digital printing to be available, a suitable digital press must be set up on the Prinect DFE. In addition to installation of the press, the machine must be set up in the Prinect Cockpit in "Administration > System > Digital Presses". You will find details about the connection of digital presses in the Online

Introduction

Help of the Prinect Cockpit in "Connecting Machines > Connecting Digital Presses". You can also set up clusters for Versafire presses (EV and EP or later). See "[Set up a Cluster of Digital Presses](#)", page 23.

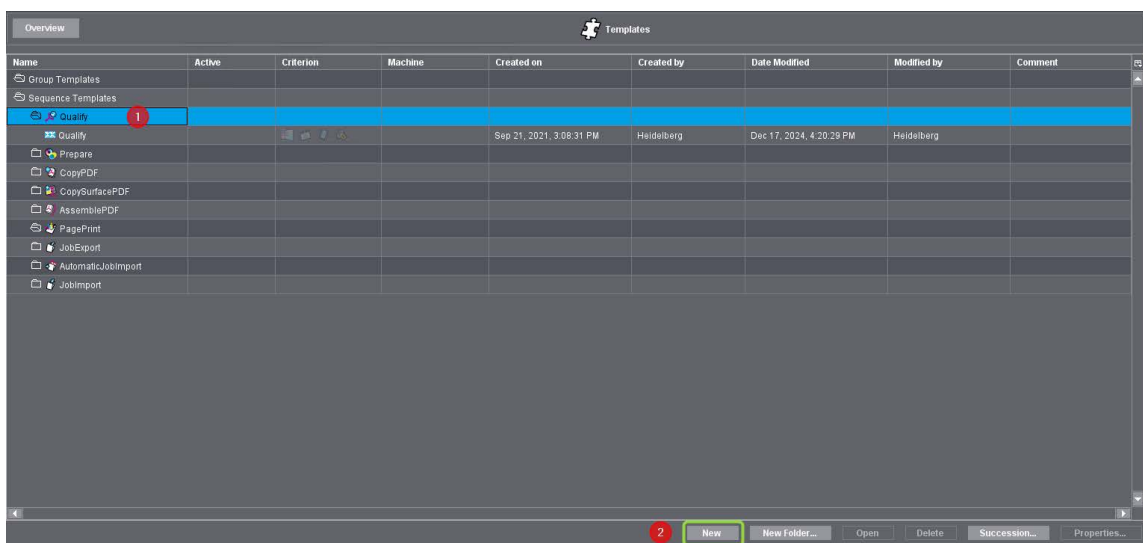
To configure the sequence templates needed for the examples below, proceed as follows:

1. Go to "Administration" and click "Templates".



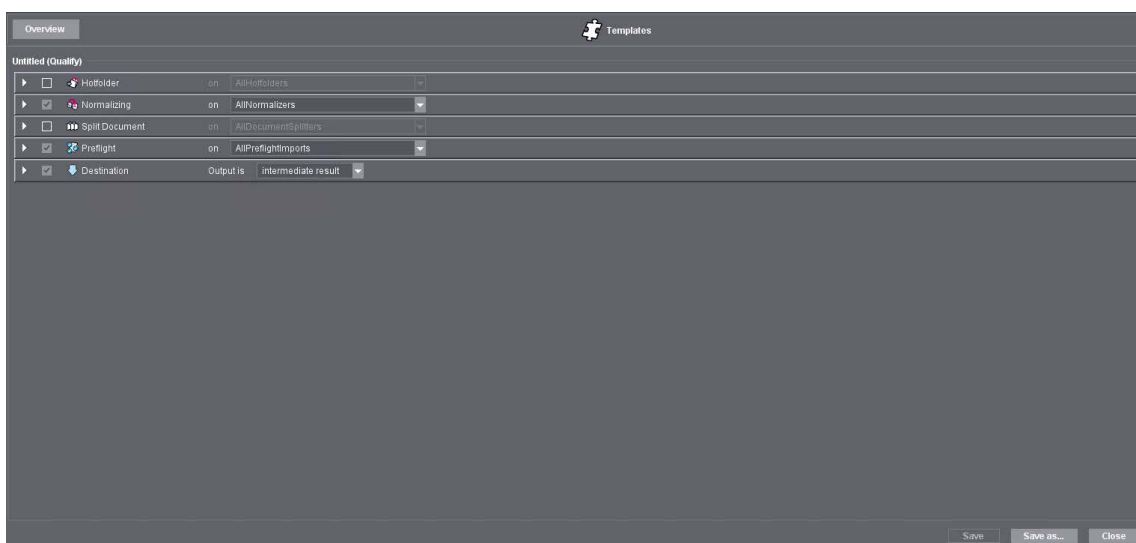
2. The "Templates" window opens. Click the folder icon beside "Sequence Templates" to display the single sequence items.

Configure a Qualify Sequence



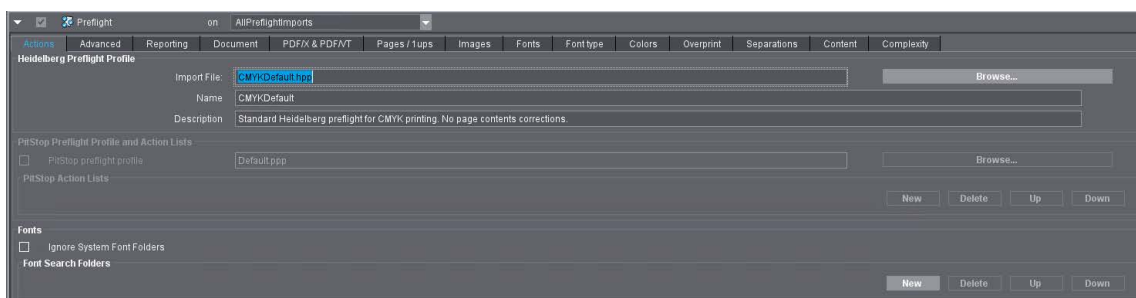
1. Highlight the "Quality" sequence type (1) and click "New" (2).

The setup section for a new Qualify sequence opens:



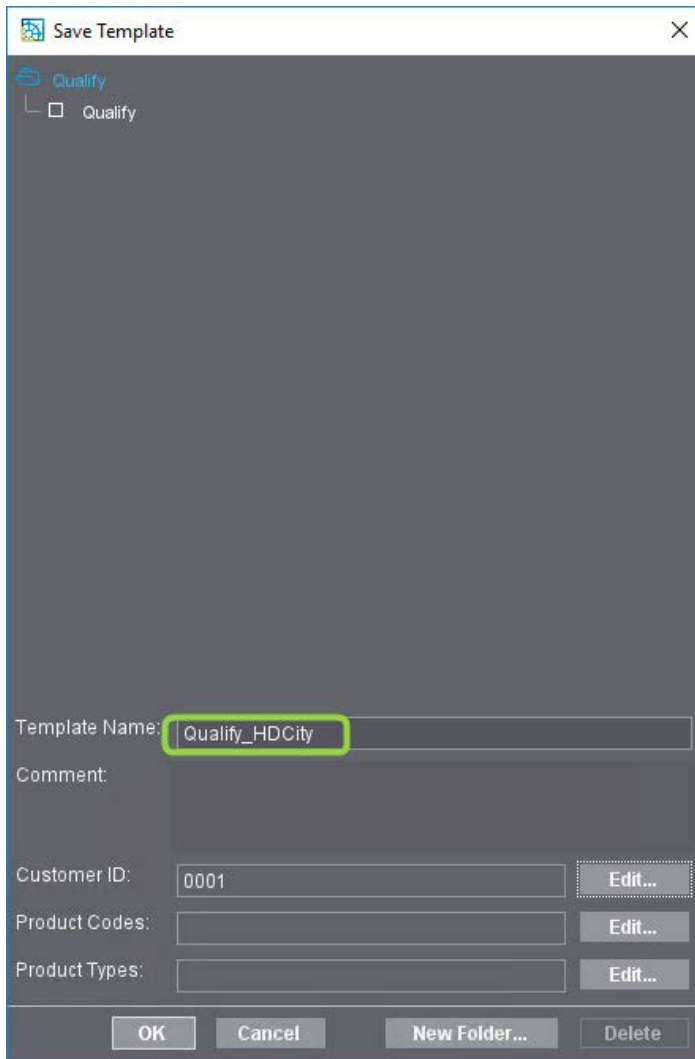
Set this sequence as follows:

2. Leave "Normalizing", "Split Document" and "Destination" disabled or as they are.
3. Enable "Hotfolder" and leave the defaults as they are.
4. Enable the "Preflight" option and display the parameters by clicking the small triangle before the checkbox.
5. Click "Browse" in the "Heidelberg Preflight Profile" section of the "Actions" tab. Select the "CMYKDefault.hpp" profile.



6. Click "Save as". The "Save Template" dialog opens:

Introduction



7. Type the name "Qualify_HDCity" and select the customer "HD Printshop" under "Customer ID" using "Edit". All customers registered in the Prinect customer management are offered for selection. The customer ID (in the example 0001) is then inserted in the corresponding field. Confirm the "Save template" dialog with "OK".
8. Click "Close". The sequence overview displays.

Configure a PagePrint Sequence



Prerequisite: The "PagePrint" sequence type is available only if at least one digital press is connected to and set up on Prinect DFE.

In the "Templates" view, highlight "PagePrint" in "Sequence Templates" and click "New".

"Accept approved pages only" Option

This option is intended for an approval workflow in which the prepared documents must be approved by the customer or a print shop employee before the actual printing process. If this option is activated, only PDF pages that have been given the status "approved" will be processed in the further course of the workflow. You can find more information about the approval workflow in the Cockpit online help. We leave this option deactivated.

"AutoImposePDF" Option

This option is always activated and cannot be edited. It means that in digital printing, all document pages are always assigned to the corresponding page list placeholders. The page lists are automatically generated according to the number of pages and the page format defined in the job settings. In the Prinect offset printing workflow, the content pages of the supplied document files must normally be assigned to the page placeholders of a page list in a special imposition step. To do this, the required page lists are generated manually or taken from an imported sheet layout. In digital printing, this imposition process takes place automatically with the "AutoImposePDF" option.

"Digital Printing" Step

In this step, you can set up parameters for paper, pages, layout, print marks, color as well as print and finishing settings of the press and save them as a template. These presets will be adopted later when configuring the "Digital printing" work step in the opened job and can be individually adjusted there.

Selection of the digital press

In the "on" list box select the digital press for which you will set up this PagePrint sequence template. If there is only one digital press in the system, this press is automatically selected.

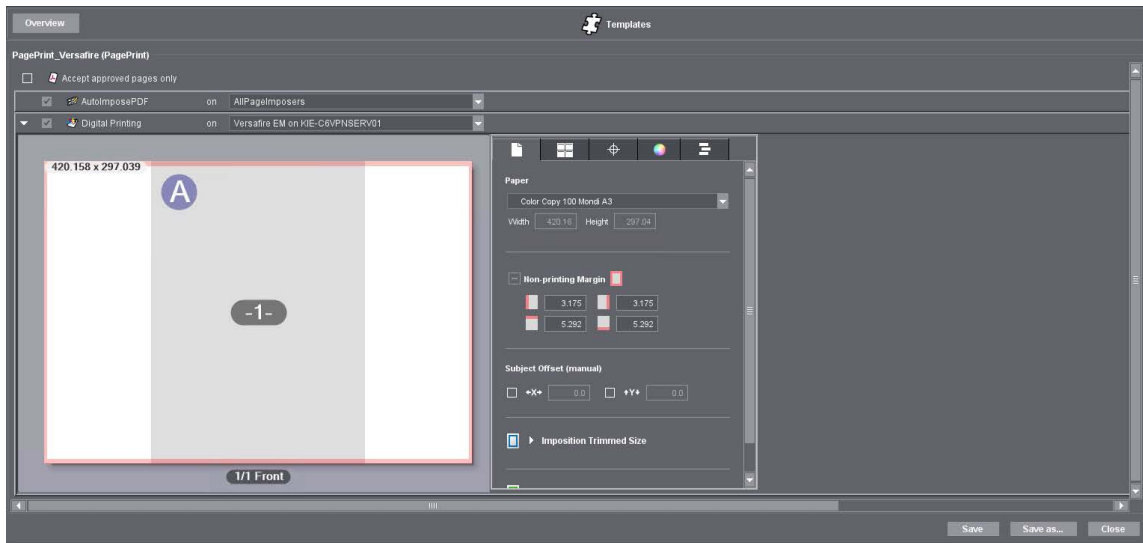


Note: You can combine several Versafire digital presses (Versafire EV/EP or later) to a cluster. In this case, you can select a cluster of digital presses in the "on" list box instead of a single digital press. See also ["Set up a Cluster of Digital Presses", page 23](#). The digital printing presses included in the cluster are then controlled with the parameters of this PagePrint sequence and operated in "load balancing".

Configuration of paper and page settings

1. Open the "Digital Printing" step and in the "Paper and page settings" tab set, for example, an A3 paper type as the paper:

Introduction



The paper types are set up at the press and these data are sent to the Prinect Cockpit. If required, you can select a different paper type from the "Paper" list box. If you change the paper size, the new size displays at once in the preview pane.

- (2). On some digital presses it is possible to print the cover pages (the first two and last two pages of the PDF document) on different paper. In the example, the cover pages are to be printed on the same paper as the content pages.



Note: In the page preview, the cover pages are highlighted by a dark yellow label.

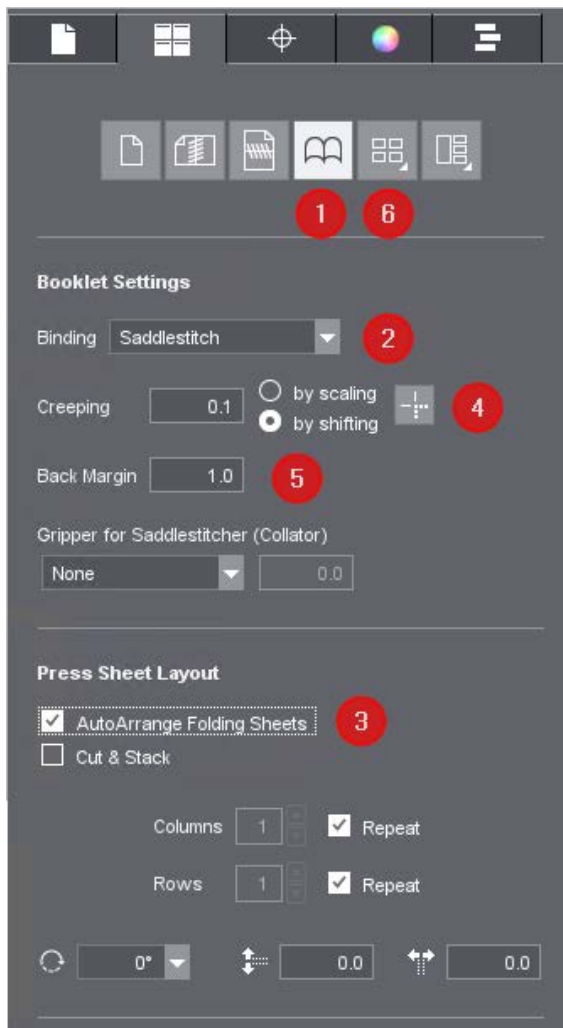
3. Leave "Non-printing Margin" as it is (0,0). This can be a good idea for some jobs, for example, where logos or business cards are not to be printed right up to the edge of the paper.
4. Leave the "Subject Offset (manual)" option disabled.



Note: This option lets you manually set the horizontal and vertical spacing between the single subjects on the printing material. You can use this, for example, for printing labels or business cards.

5. In "Imposition Trimmed Size" leave "From PDF" as it is. Likewise, leave "Scale" as "100%" and "Page Policies" as "Fit to Size". "Expected Orientation" is set to "Portrait" and cannot be changed if "From PDF" is set.
6. In the "Bleed and Trim Allowance" section enter 3.0 mm in the "Bleed" box. Then hit the Tab key. The new value is applied to the preview. Set "Trim Allowance" to "Automatic".

Configuration of the layout settings



1. Go to the "Layout settings" tab and select the "booklet layout" (1).
2. Select "Saddlestitch" in the "Binding" list box (2).
3. Enable "AutoArrange Folding Sheets" (3).
4. Enter a value of 0.1 mm in "Creeping" (4).
5. Enter a value of 1.0 mm in "Back Margin" (5).

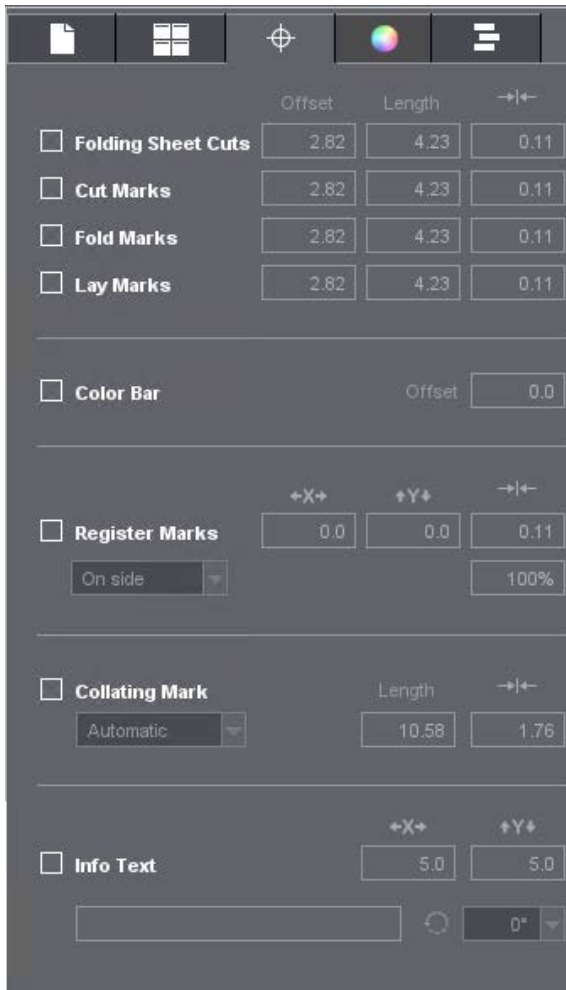
Leave all other settings as they are. Detailed information on the individual options can be found in the Cockpit online help.



Note: Use the "custom layout scheme" button (6) to open a Layout Scheme Editor where you can create a custom layout scheme. You can find details about this in the Online Help of the Cockpit (F1 key).

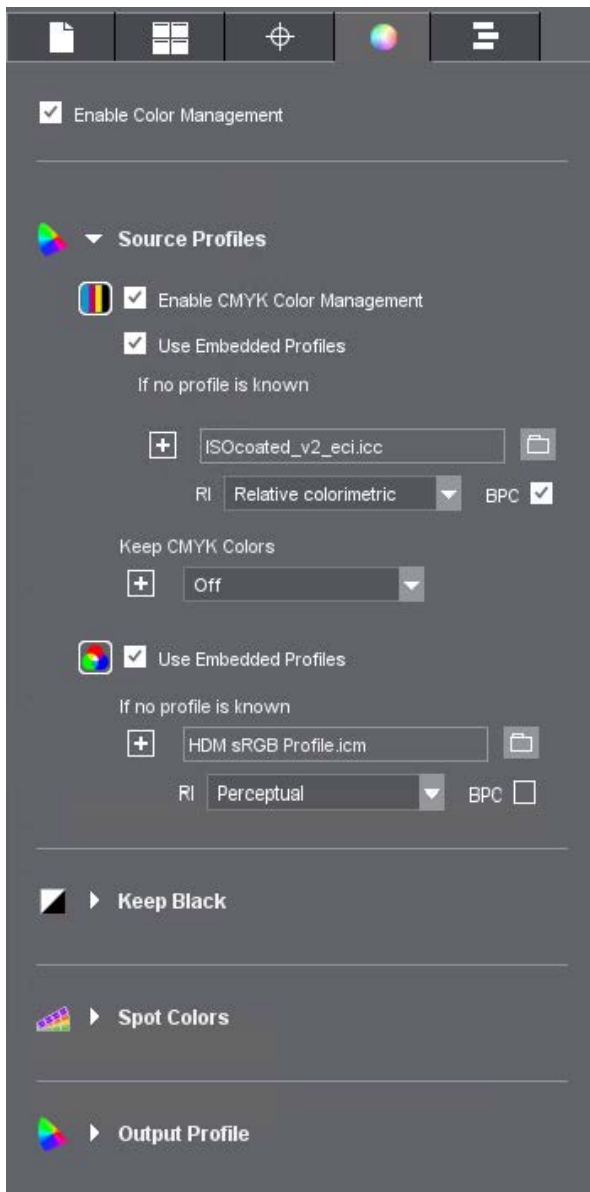
Introduction

Configuration of the print mark settings



1. Go to the "Print mark settings" tab. Because no print marks will be used in this example, leave all the options disabled or disable any checked options.

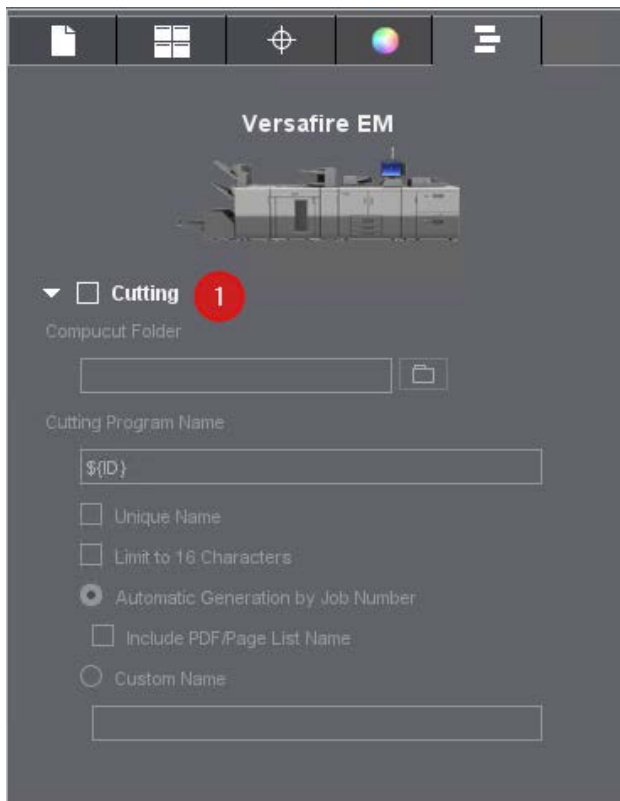
Configuration of the color settings



1. Go to the "Color settings" tab and activate the "Enable Color Management" option.
2. Open the "Source Profiles" area.
3. Leave "Enable CMYK Color Management" and "Use Embedded Profiles" enabled.
4. If needed, you can customize the "Keep Black", "Spot Colors" and "Output Profile" sections by clicking the respective triangles. These settings are not changed in our example. Details about these parameters can be found in the Online Help of the Prinect Cockpit.

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Configuration of print and finishing settings



1. Go to the "Print and finishing settings" tab.
2. Depending on the equipment of the printing machine, different printing and post-processing settings are available. Parameterize the settings according to the requirements of the print jobs that are to be processed with this sequence. Information on the printing and post-processing settings can be found in the documentation for your printing machine. Some configuration settings are described as examples in the Cockpit Help.

Save sequence template

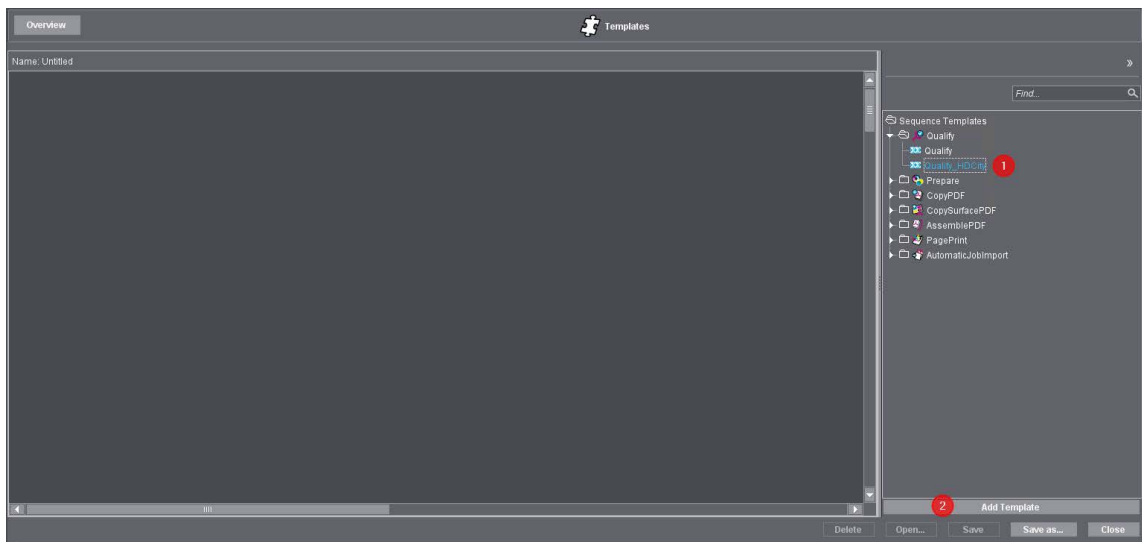
1. Click "Save As". The "Save Template" dialog opens.
2. In the "Template name:" field, enter the name "PagePrint_HDCity".
3. Assign the customer "HD Printshop" to the sequence template by clicking "Edit" next to the "Customer ID" field and confirm the dialog with "OK". The dialog closes.
4. Close the PagePrint sequence template by clicking "Close". The template overview is displayed.

Create a Group Template

For the processing of a job it is not absolutely necessary to create a group template but the use of group templates facilitates the processing of further print jobs that need similar processing steps. A group template will be created to illustrate how you define and use a group template.

1. In "Administration > Templates", mark "Group Templates" in the sequence overview and click "New".

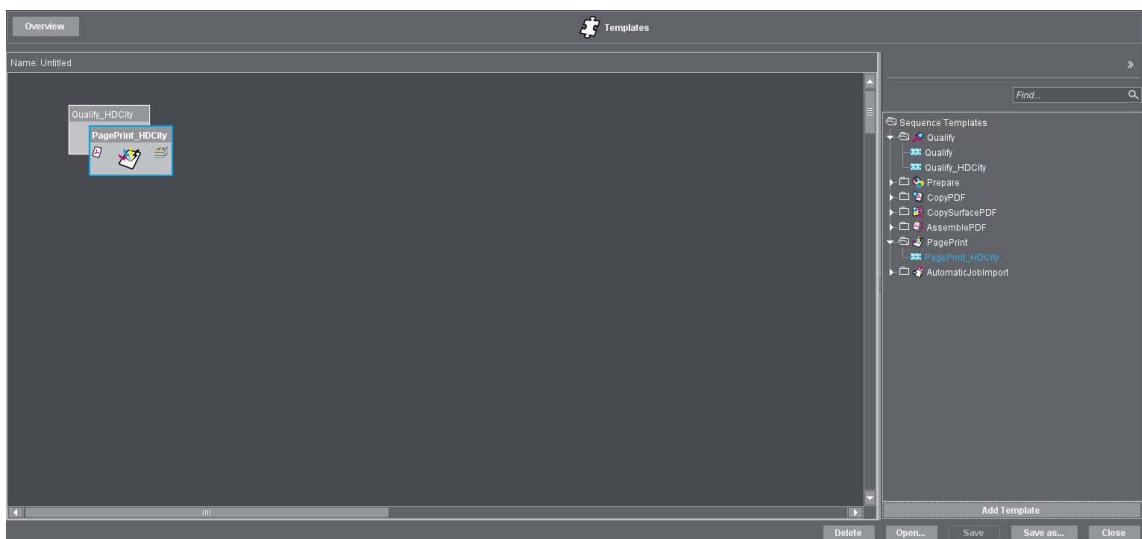
The empty setup window of a group template opens.



2. Open the "Quality" folder and select "Quality_HDCity" (1).
3. Then click "Add Template" (2).

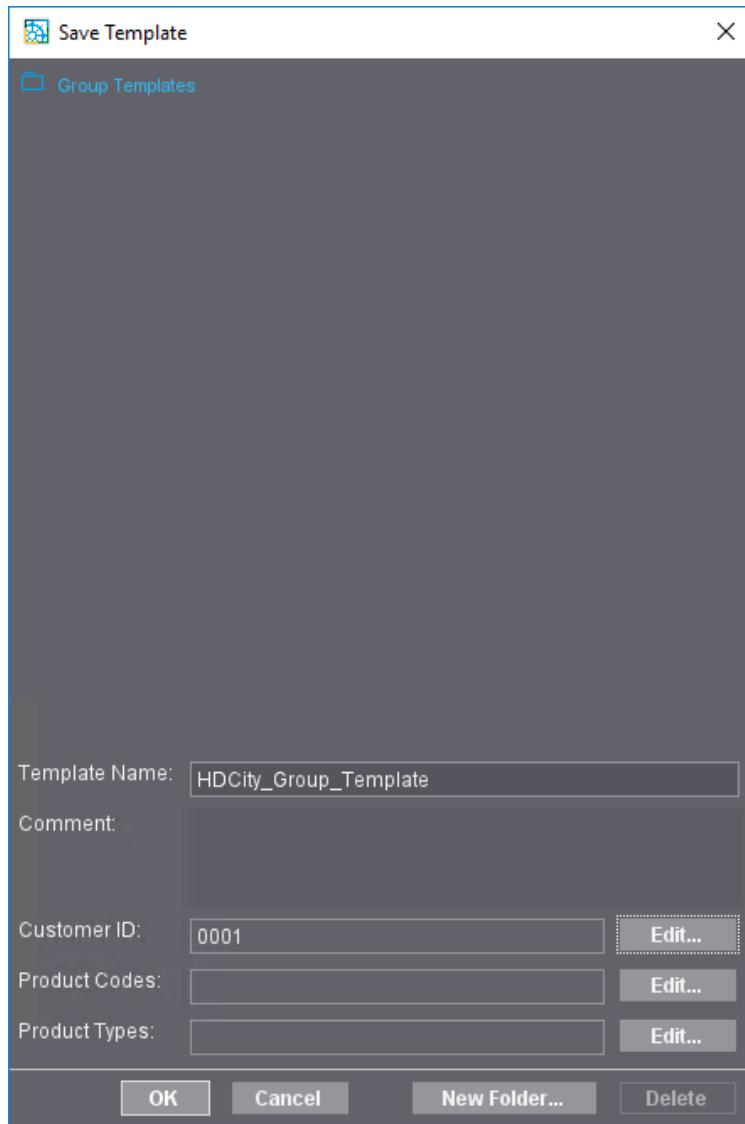
An icon for the Quality sequence is created in the workspace.

4. Repeat steps 2 and 3 also for the "PagePrint_HDCity" sequence. The workspace now displays as follows:



5. In the workspace, select "AutoArrange" in the context-sensitive menu. The icons are placed side by side and aligned.
6. Click "Save As". The "Save Template" dialog opens.

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7. Enter the name "HDCity_Group_Template" and assign the customer "HD Printshop" to the group template. Confirm and close the dialog with "OK".
 8. Close the group template by clicking "Close".
 9. Exit the "Templates" view by clicking "Overview".
- All the sequence templates needed for a basic workflow are now configured.

Configure the Digital Printing Terminal

The Digital Printing Terminal is the link between the submitted Prinect print job and the digital press. You will find details about the prerequisites and operation of the Digital Printing Terminal in the Online Help of the Prinect Cockpit (F1).

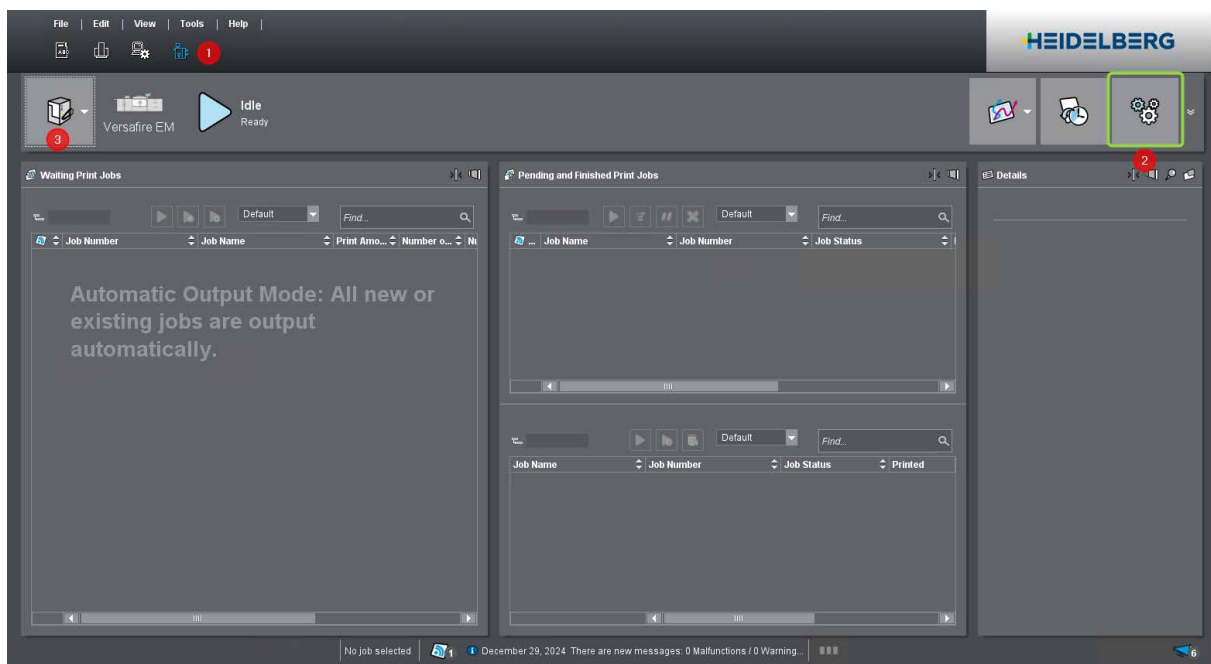
You can configure the Digital Printing Terminal for two modes:

- for the manual output mode or
- for the automatic output mode.

In the manual output mode, you can customize which print jobs will be sent in which order to the press.

In the automatic output mode, the print jobs are submitted automatically to the press in the order in which they arrive at the Digital Printing Terminal.

You open the Digital Printing Terminal by clicking its button (1) in the section toggle.



If more than one digital press, an additional CTP device or a cluster of digital presses is set up on the Prinect DFE, you can select the output device or cluster you wish to control in the Digital Printing Terminal in the device list box (3).

The layout and the contents of the windows of the Digital Printing Terminal are refreshed if you change the output device. This means that the jobs and details of the new output device you set display in them.

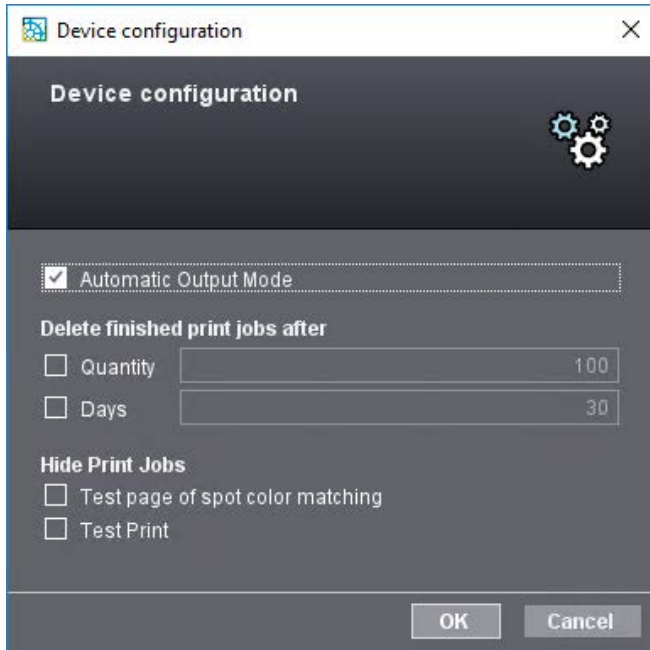


Note: The "Jobs" view also has a "Digital Printing Terminal" section. This view is designed to give you a fast overview of the progress of digital printing. However, you cannot control printing from this view.

Introduction

Configure the automatic output mode

The automatic output mode is set by default after installation. You can switch to the manual output mode by disabling the "Automatic Output Mode" option. To do this, click the "Device configuration" button (2). The "Device configuration" dialog opens:



In this dialog, you can disable the "Automatic Output Mode" option.

The automatic output mode will stay enabled for the workflow described in this documentation.

Set up the cluster configuration



Prerequisite: In order to configure and use clusters of digital presses, you must have set up at least one cluster. See ["Set up a Cluster of Digital Presses", page 23](#). In this case, the job must be submitted to a cluster of digital presses.

If you want to use several digital presses in a cluster, you can set up the way the print jobs will be distributed in the Digital Printing Terminal. Then the cluster of these digital presses is offered in the device list box (3). Click on the cluster in the list without selecting one of the machines in the sub-menu. You can now configure the entire cluster. In a cluster, the print jobs can be distributed to the individual machines in the cluster according to various criteria. In this way, the machines in a cluster can be better utilized than individual machines. You configure the distribution details in the ["Cluster setup"](#) dialog.

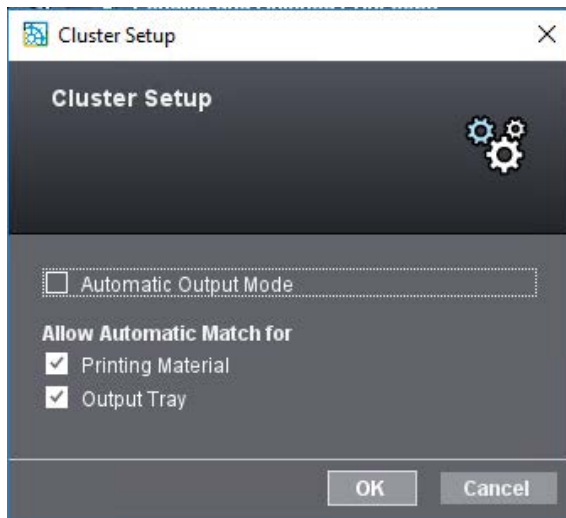
When you select a cluster, the Digital Printing Terminal view changes to the effect that only the "Print History" and "Cluster Setup" buttons display in the global status panel. In the cluster view, you can use the "Machine" column in each table for sorting or grouping.

When you click one of the machine icons of the cluster, the cluster view changes to the view of that machine.

Accept automatically distributed print jobs

When you select this option, the digital press concerned is made available for automatic distribution of print jobs in a cluster if "Machine-specific" is selected in the ["Automatic Output Mode" option](#) in the "Cluster Setup" dialog.

Cluster setup

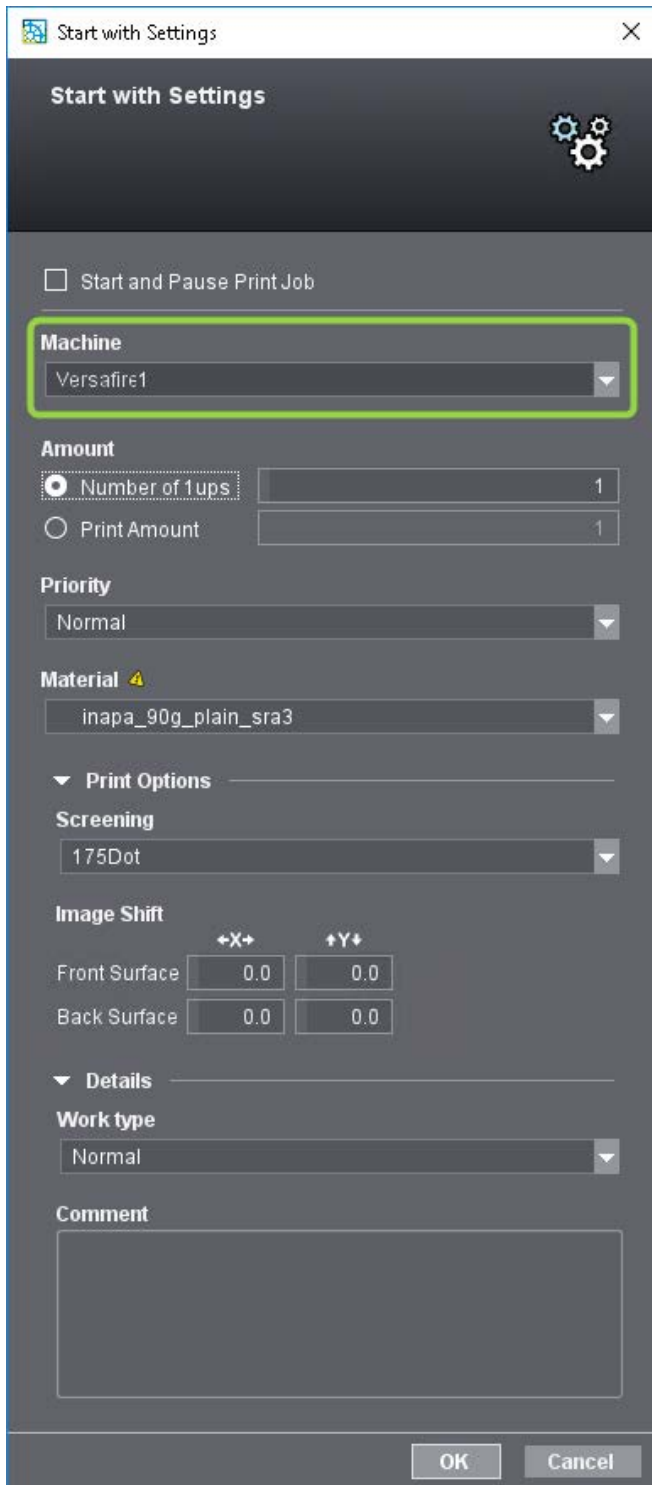


"Automatic Output Mode" option

If you activate this option, the automatic output mode is enabled, i.e. incoming digital print jobs are immediately submitted to that printing press which corresponds to the activated criteria under "Allow Automatic Match for" and which is available next.

If you deactivate this option, the print jobs which are submitted to the cluster, are collected in the "Waiting Print Jobs" area. Here you can open the "Start with Settings" window with the respective context menu item, and select the machine of the cluster to output the job:

Introduction



Prerequisite: This list box is only available if a cluster is selected in the device list box.

"Allow Automatic Match for" options

You can use these options to confine automatic distribution of print jobs. If you activate one or more of these options, the print jobs are distributed automatically, corresponding to the activated criteria.

- Printing material

The printing material parameters like size, grammage, paper grade, grain direction etc. are taken into account when selecting a press, i.e. the press whose printing material settings best match the respective job will be driven.

- Output Profile

When this option is enabled, output is matched to the default ICC profile of the selected paper on the press. However, this matching is done only if the machine type automatically assigned differs from the machine type originally assigned or if there was a change in paper.

- Quality Options

When you enable this option, print jobs are also submitted to machines in a cluster that do not have quality options like "Edge Enhancement" or "Maximum Inking", even if these parameters were enabled for the submit process. In this case, these quality options are ignored.

- Output Tray

When you enable this option, printing is automatically matched to the existing output tray parameters of the press in the cluster. Finishing options like stitching, punching or folding are always taken into account. This means that if a machine in the cluster does not have the finishing options configured in the job, it is not automatically selected.

Automatic Workflow by Dragging-and-Dropping Document Files

You can use the DFE for automated job processing where new print jobs are created automatically when you drag-and-drop document PDFs in the job list of the Cockpit. In this process, it is enough to save the required sequences as a template in a new print job. You can find details about this workflow in the [chapter "Automatic Creation and Output of New Jobs using Drag-and-Drop", page 67](#).

Automatic Workflow in the Hotfolder Mode

Another variant of automated job processing works using special folders called "hotfolders". A new print job is created automatically whenever document files enter such a hotfolder. You can find details about this workflow in the [chapter "Automatic Creation and Output of Print Jobs in the Hotfolder Mode", page 75](#).

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Manual Creation of a Print Job

This chapter shows you how to create a print job (example: "HDCity" booklet) manually and edit it up to printing.



Note: The examples shown in this documentation solely demonstrate operation and must not be understood as imperative instructions.

Create and Edit a Job

After you prepared the sequences that are needed (see the [section "Configure Sequence Templates", page 27](#)), all the prerequisites required for creating a new job are met.



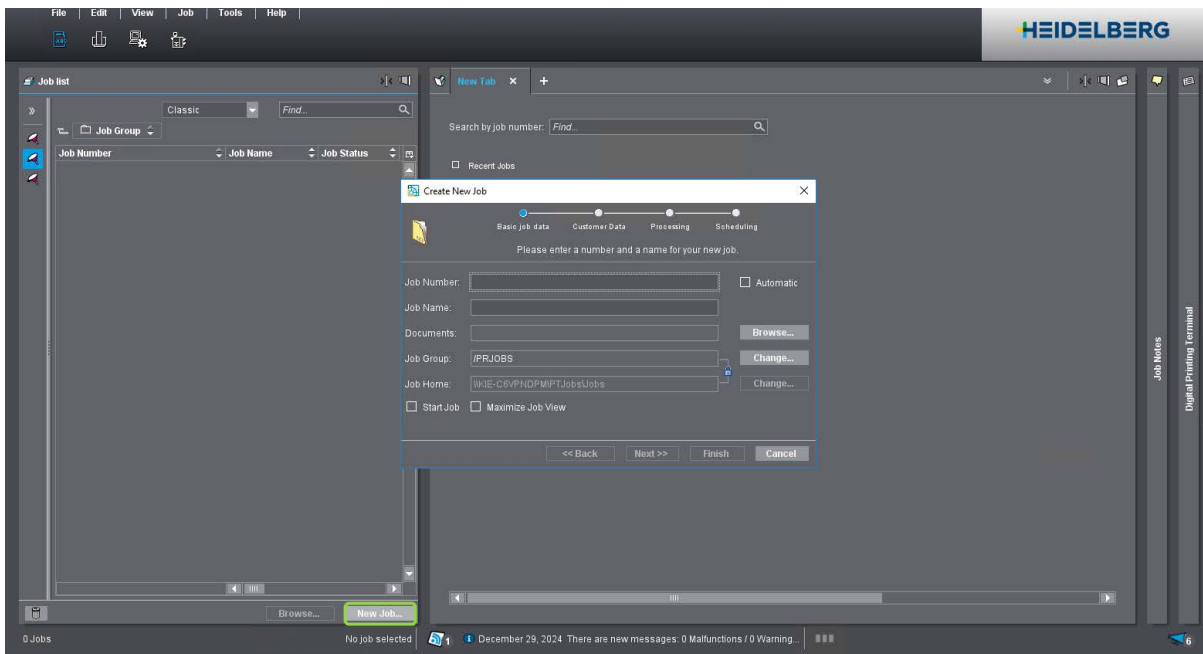
Prerequisite: All the prerequisites required for creating a print job in the Prinect DFE are now listed once again below:

- The document file(s) to be printed: HD_City.pdf in the example
- Customer: HD Printshop
- Sequence templates: "HDCity_Group_Template" with "Qualify_HDCity" and "Page-Print_HDCity" sequences.

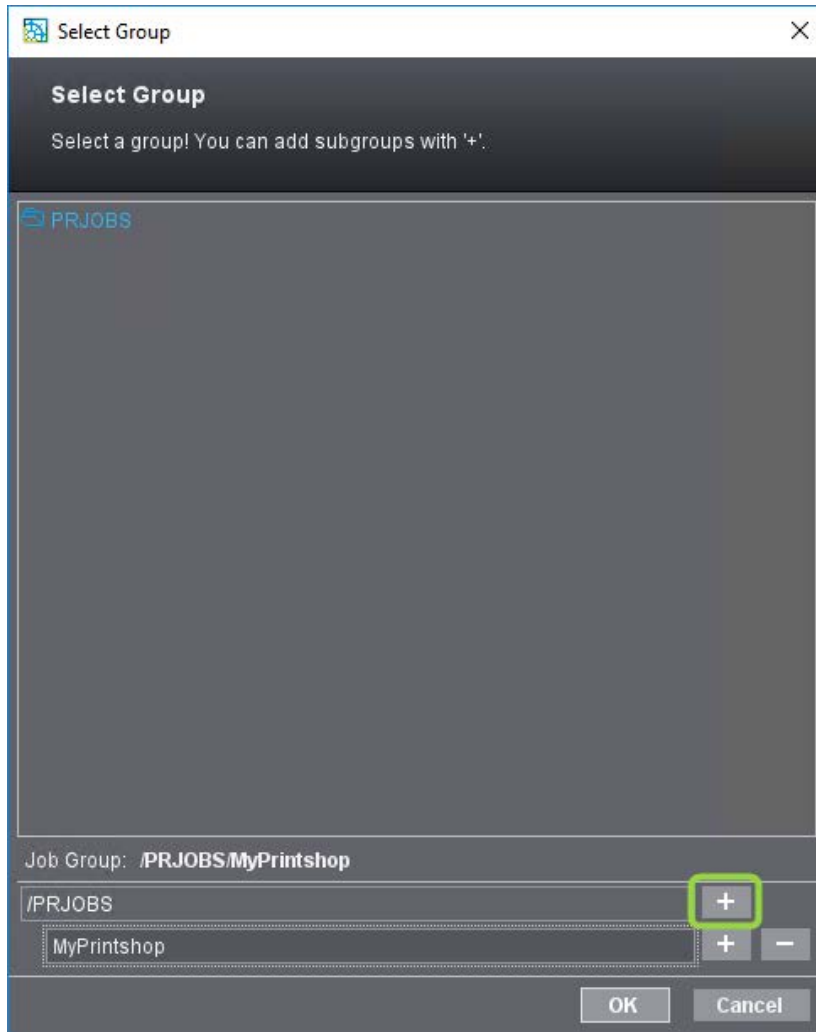
Create a New Job

1. In the Prinect Cockpit, go to "Jobs" and click "New Job". The "Create new Job" dialog opens:

Manual Creation of a Print Job



2. This dialog has four views that you can go between with "Next" or "Back". First fill out the boxes in the "Basic job data" view.
 - Assign a job number. You can take the job number, for example, from the job ticket of a customer job. Job numbers must be unique in the Prinect DFE system environment. This means that each job number can be assigned only once. In this example, we will assign "HD0001" as the job number.
 - Your next step is to assign a job name. Job names as well must be unique. When you go to the "Job Name" box, the job number is copied automatically to this box. You can use the job number e.g. as a prefix for the job name or overwrite it. We will assign "HD0001_HDCity" as the job name.
 - In the "Documents" box you can now assign the documents (supplied by the customer) to the job. You can also do this step later in the created job. We will not assign any documents at this point.
 - By default, "Job Group" and "Job Home" are linked. This means that if you define a new job group, a folder of the same name will be created automatically for this job group. We want to create a new job group and click "Change". The "Select Group" dialog opens:



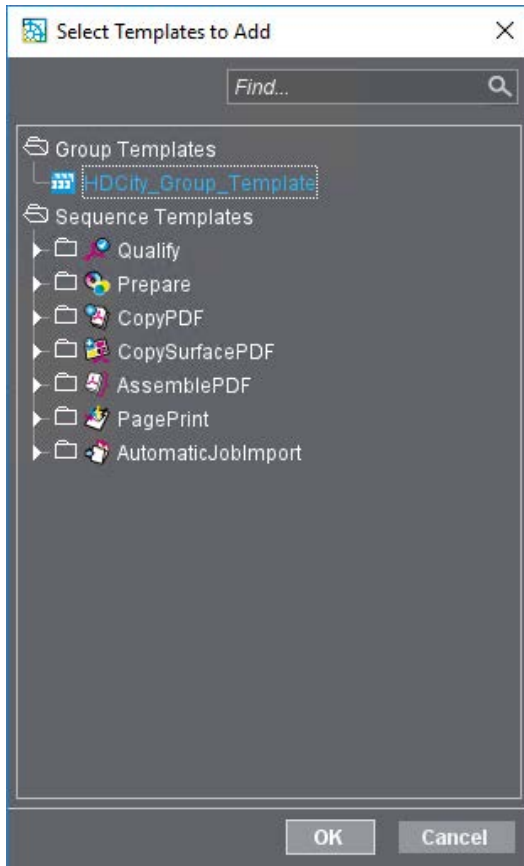
- Click the plus sign beside "PRJOBS". Another edit box displays.
- We will assign "MyPrintshop" as the group name and click "OK". The "Select Group" dialog closes.

3. Enable the "Start Job" option. Leave "Maximize Job View" disabled.
4. Click "Next" to open the "Customer Data" view:

Manual Creation of a Print Job

The screenshot shows a software window titled "Create New Job" with a close button (X) in the top right corner. At the top, there is a progress bar with four steps: "Basic job data" (green dot), "Customer Data" (blue dot), "Processing" (grey dot), and "Scheduling" (grey dot). Below the progress bar, a folder icon is on the left, and the text "You can assign a customer to the job." is centered. The main area contains several input fields: "Customer Name:" with a dropdown menu showing "HD Printshop"; "Customer ID:" with a dropdown menu showing "0001"; "Nickname:" with a dropdown menu showing "HDP"; "Customer Job ID:" with a text box containing "HD0001"; and "Customer Job Name:" with a text box containing "HD0001_HDCity". At the bottom, there are four buttons: "<< Back", "Next >>", "Finish", and "Cancel".

5. Select "HD_Printshop" in the "Customer Name" list box. This item is taken from customer administration of Prinect DFE. "Customer ID" and "Nickname" are also taken from there. "Customer Job ID" and "Customer Job Name" are copied from the basic job data you defined beforehand. You can overwrite these items if you have other customer job data that differ from the job data set in the Prinect system. We will leave these items as they are.
6. Click "Next" to open the "Processing" view: In this view, you can add prepared sequence templates to the job. Click "Add". The "Select Templates to Add" dialog opens:

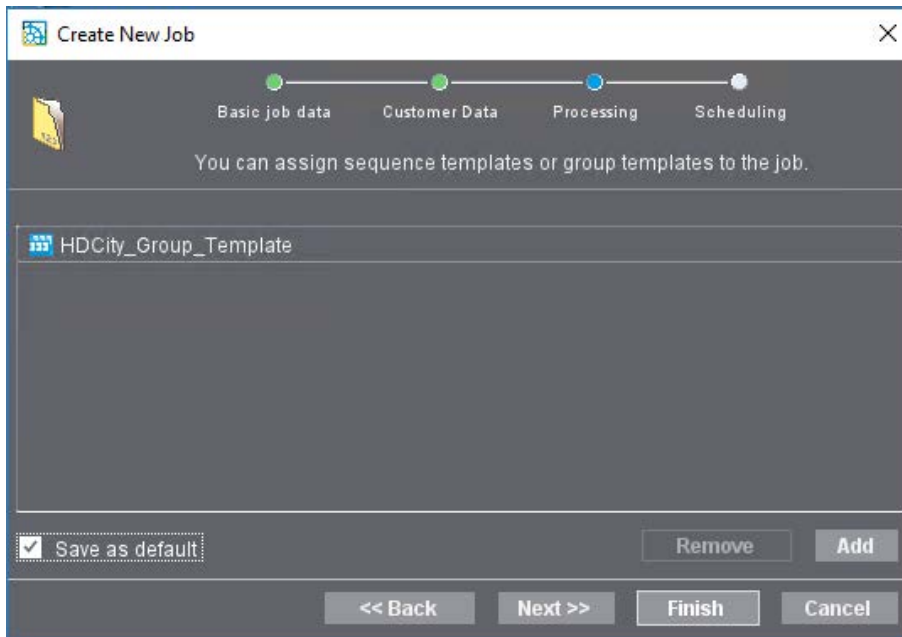


7. Select "HDCity_Group_Template" and click "OK". The group template contains all the sequence templates needed for processing this job.

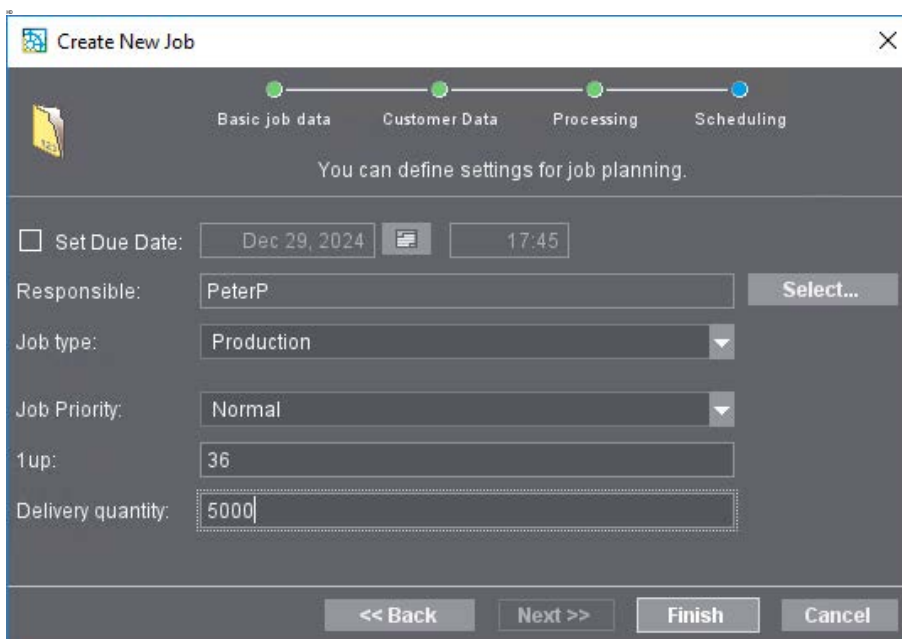


Note: You could also add Qualify and PagePrint as separate sequence templates instead of the group template. In this case, the same functionality would be available.

Manual Creation of a Print Job



8. Enable the "Save as default" option. Then the "HDCity_Group_Template" will be assigned automatically to all new print jobs created in the future. If required, you can undo this assigned template by marking the group template and clicking "Remove" and then assign other sequence templates or group sequence templates. In addition, the group template is enabled for automated job processing. See [chapter "Automatic Creation and Output of New Jobs using Drag-and-Drop"](#) and [chapter "Automatic Creation and Output of Print Jobs in the Hotfolder Mode"](#). Click "Next".
9. The "Scheduling" view opens. In this view, you can select the person responsible, enter a due date, set the job type and assign a job priority. Leave these settings as they are. Enter "36" in the "1up"/"Pages" box. Enter "5000" in the "Delivery quantity" box.



10. All the data needed for creating the new job are now entered. Click "Finish".

The new job is created and opens in the "Job" view. Double-click the caption bar of the "Job" view to maximize the width of the window.



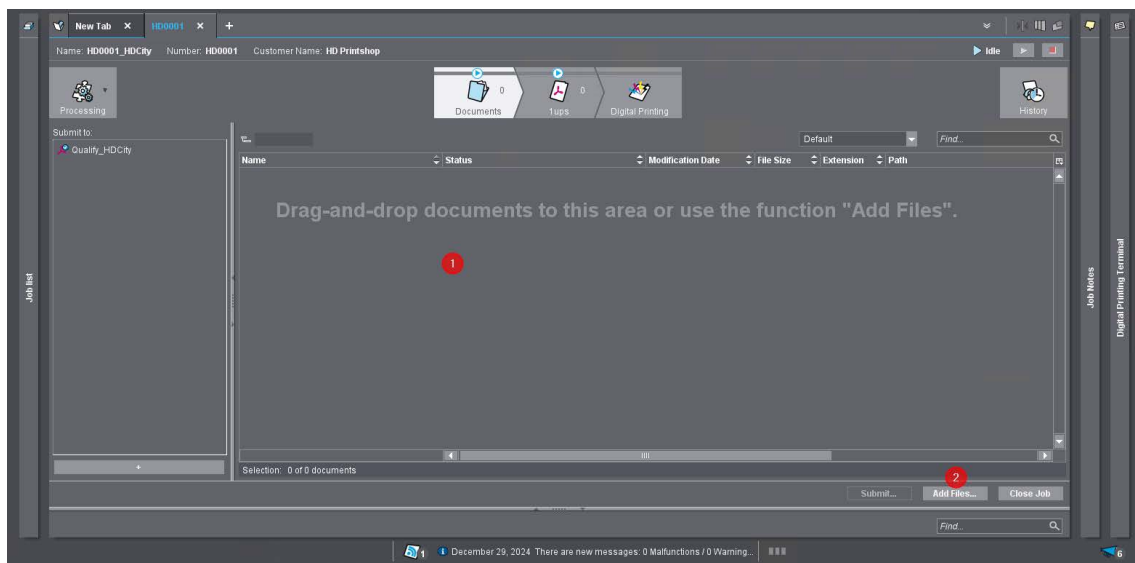
Note: In the "Job" view, several jobs can be open at the same time. Each job opens in its own tab. You can open another tab by clicking the "plus" sign above the job tabs. In this new tab, you can open another job without closing the jobs opened so far. You can find more details about this in the Online Help of the Cockpit in "The HEIDELBERG User Interface > The Cockpit User Interface > Open Jobs View".

Edit a New Job

After you created the new job, you must run some steps in the open job.

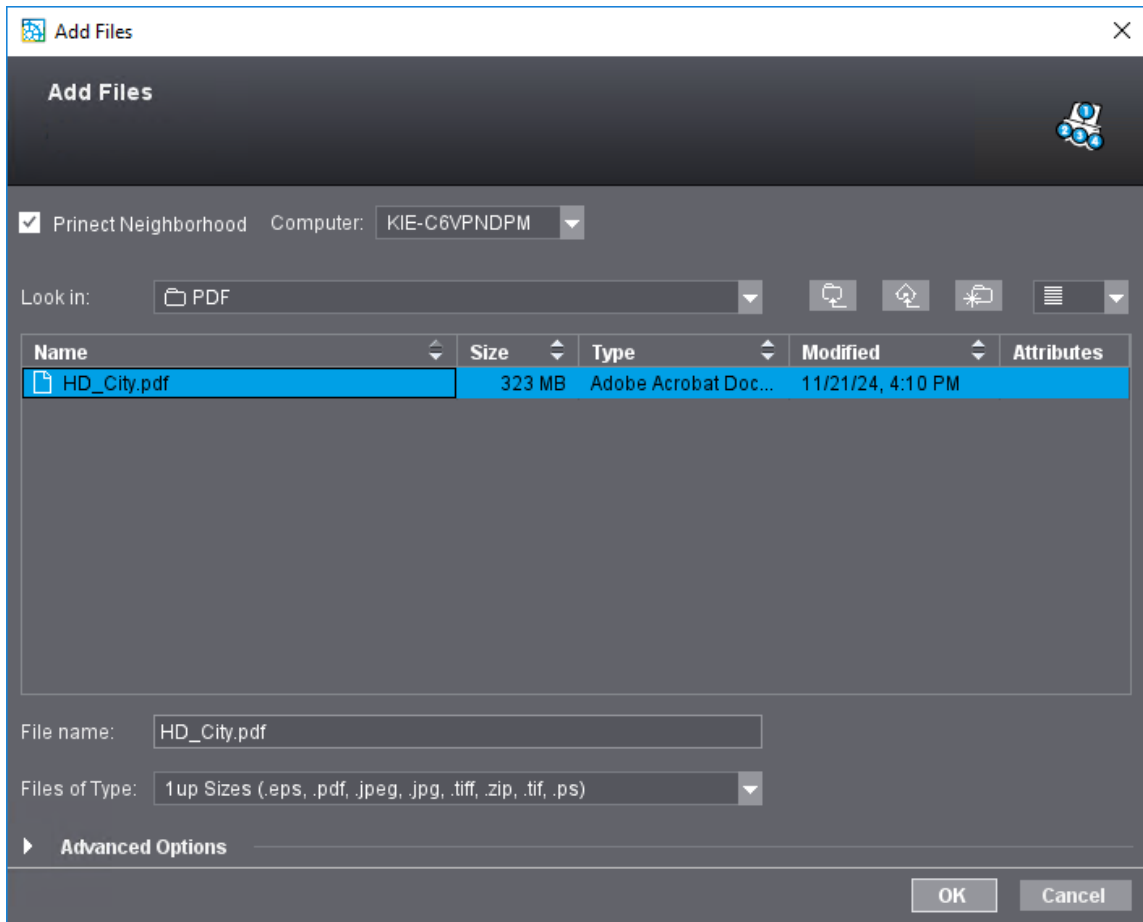
Add documents

1. Go to the "Documents" step. In this step, the document files that will be edited and finally printed are added to the Prinect workflow.

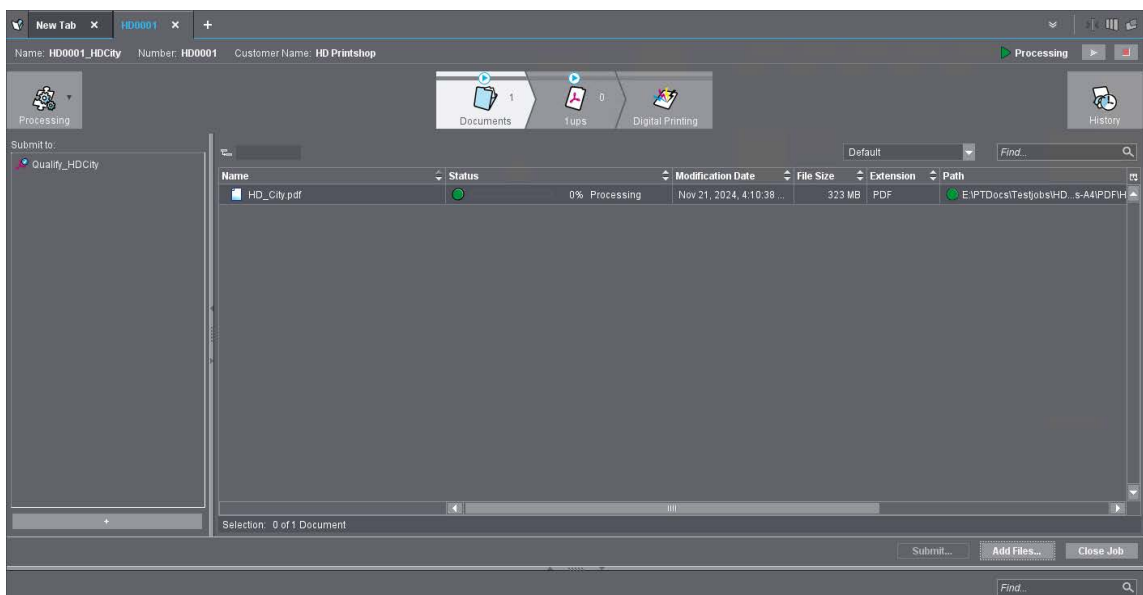


2. To add the document PDF files to the job, you can either drag-and-drop the files from the file system (Windows Explorer, Macintosh Finder) to the window (1) or you can open a file selection dialog with the "Add Files" button (2).
3. Click "Add Files". The "Add Files" dialog first displays the content of the "PTConfig" folder on the DFE server.
4. In the "Look in" list box, go to the "PTDocs" folder of the DFE server. Open the "Testjobs\HDC-ity\PDF" folder here (this job is an example; you can also use other suitable PDF files).

Manual Creation of a Print Job



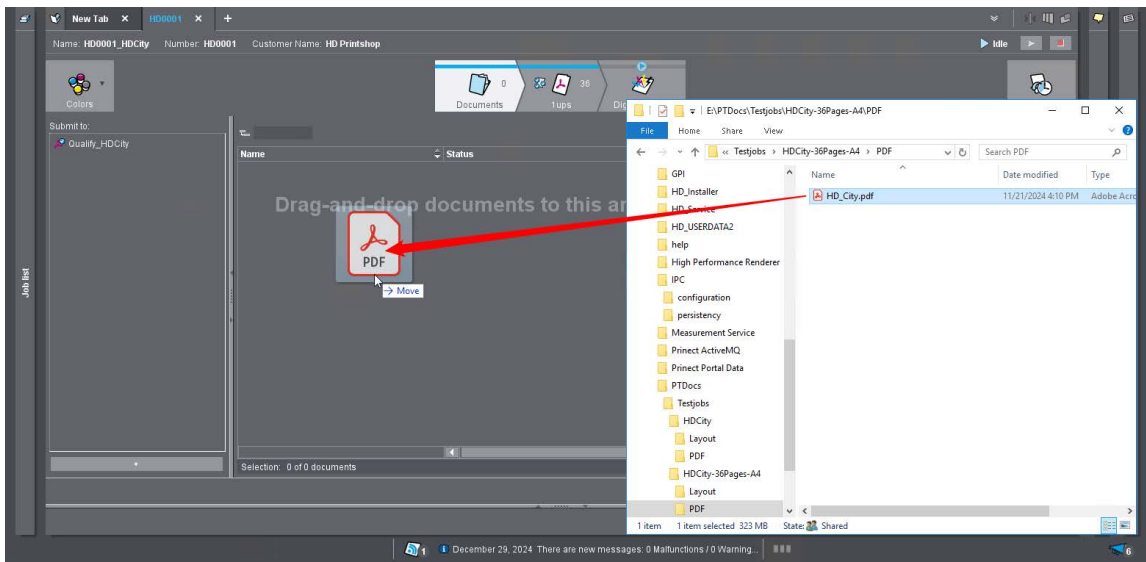
5. Highlight the "HD_City.pdf" file and click "OK". The PDF file is transferred to the "Documents" work step and immediately processed with the "Qualify" sequence because the "Start Job" option was enabled when the job was created. The processing status is displayed with a progress bar.



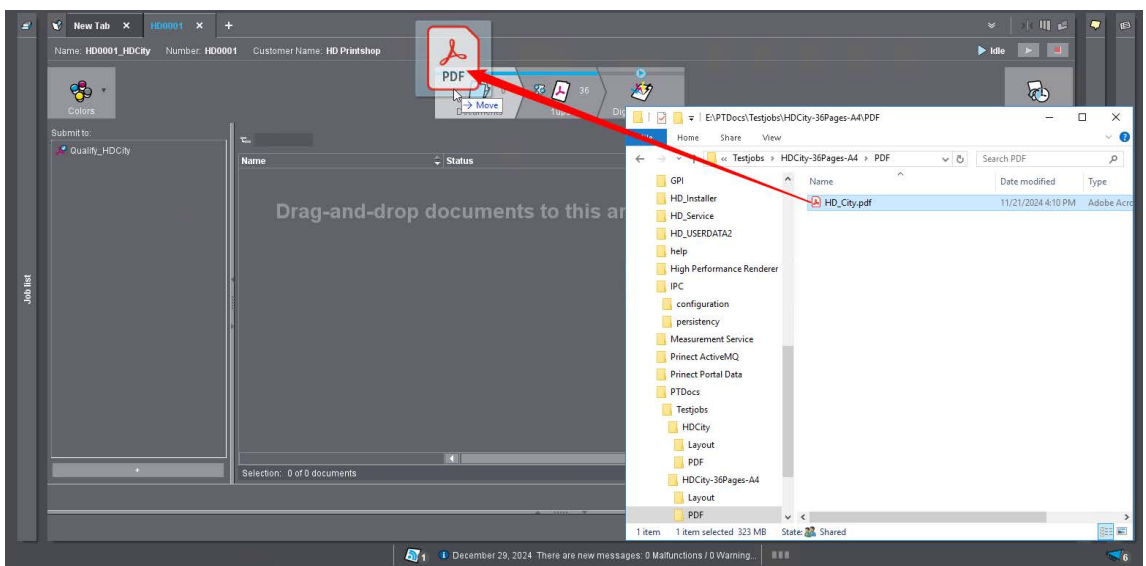
Add documents using drag-and-drop

As an alternative to the "Add Files" button, you can also add PDF documents to the "Documents" step by dragging-and-dropping them from a Windows Explorer window (or Macintosh Finder window):

1. In addition to the Prinect Cockpit, open the Windows Explorer and go to the folder where the files you want are located.



2. In the example, mark "HD_City.pdf", drag it holding down the left mouse button to the "Documents" area in the open job or to the "Documents" processing step icon and let go of the mouse button. Adding documents using drag-and-drop to the processing step icon works even if the step is not open at that moment.



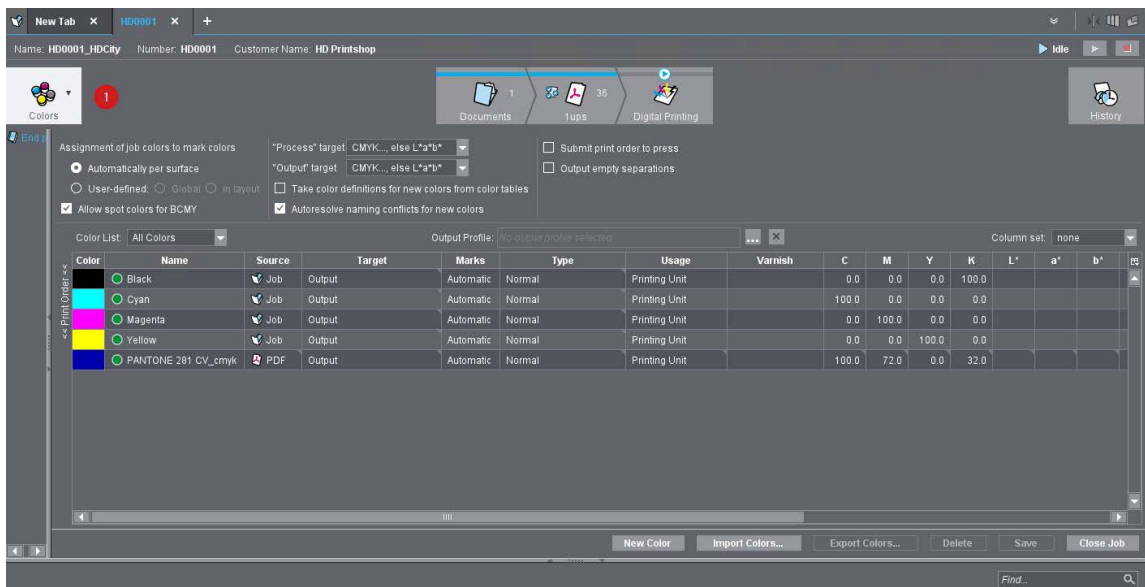
Manual Creation of a Print Job

Because the job was activated before you added the files, the PDF documents are processed immediately by the "Qualify_HDCity" sequence. After processing is finished, the documents will have "Completed" as their status.

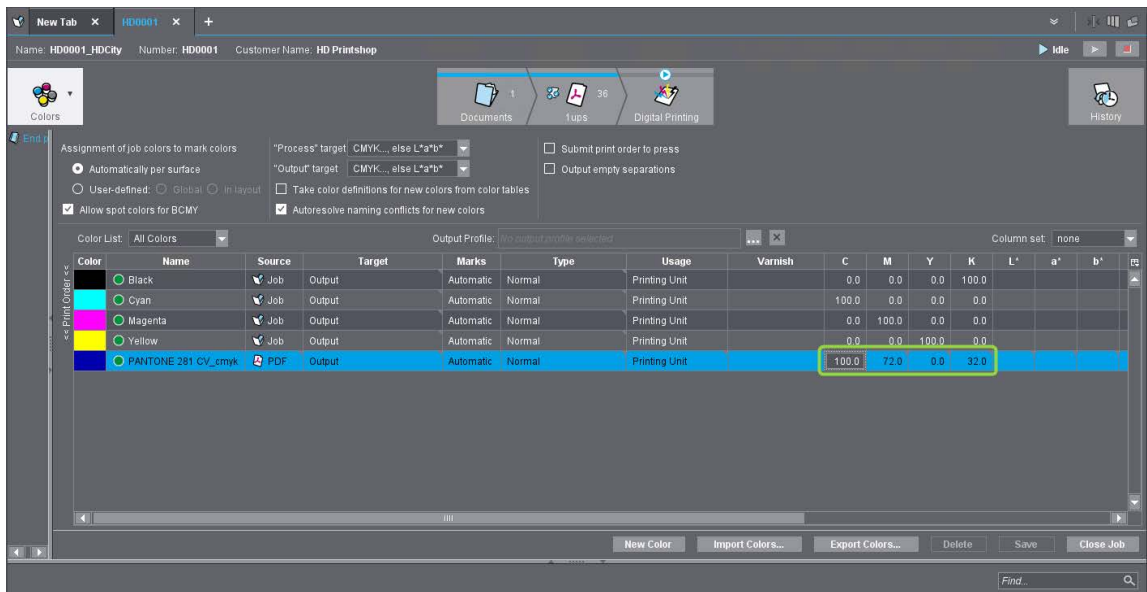
Edit colors

In the "Colors" section, you can check whether, for example, the added documents contain spot colors. For digital printing, spot colors are usually replaced by the CMYK process colors – unless the digital printing press has its own spot colors that correspond to the spot colors defined in the job. The "recipes" for the spot color replacement are usually included in the PDF files. Our example shows how a spot color replacement can be defined or changed in the job settings.

1. Click the small arrow in the top left icon (1). A list box with the parameter sections available in the job is offered. Select the "Colors" section.



The colors found in the loaded documents display in this view. For example, in the "HDCity" booklet, "PANTONE 281 CV_cmyk" displays as a spot color in addition to the CMYK process colors:



- The CMYK substitute values for this spot color display in the relevant table columns. These values were already defined in the PDF files. You can overwrite the values for C, M, Y and K if you wish to change this "color recipe". The result displays immediately in the spot color patch.

After your input, the information in the "Source" column switches automatically from "PDF" to "Job". This indicates that spot color replacement for this color no longer uses the definition in the PDF document but that it was modified as a "job setting" and is applied in this form to the current print job. You can create a new spot color with the "New Color" button. You can import spot colors available in Prinect DFE color table database to the job with "Import Colors". Confirm changes to the settings with "Save".

- In our example, leave the default settings as they are.

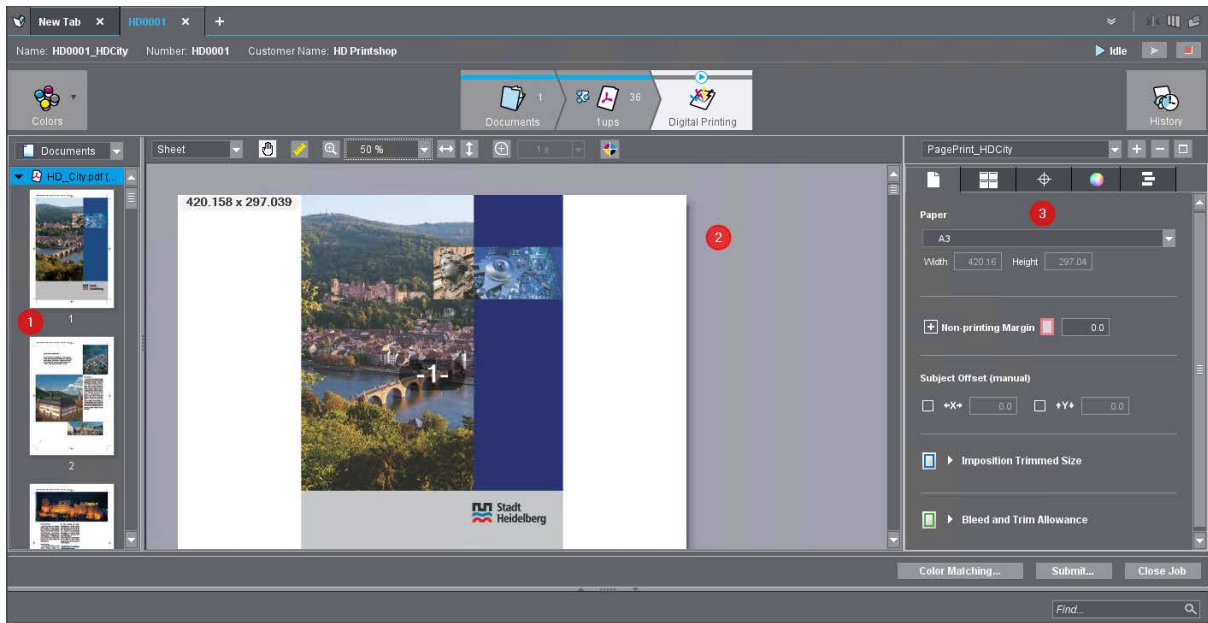
Set up and output digital printing



Note: You can find details about these options in the Online Help of the Prinect Cockpit > "Digital Printing Step" (invoke with the F1 key).

Go to the "Digital Printing" step. In this step, you can interactively impose (PDF) documents on a (digital) print sheet, set delivery and finishing options as well as configure the color settings of the press and submit the imposed print sheet for output.

Manual Creation of a Print Job



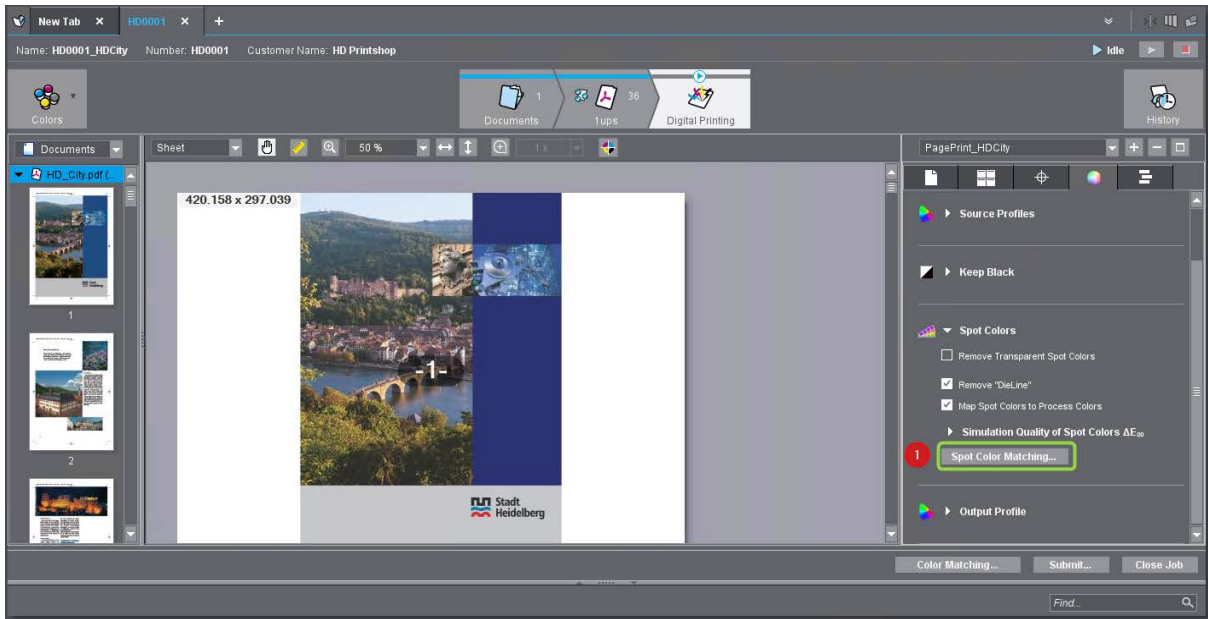
The window structure is as follows:

- The left part of the window (1) is where the single pages display. These pages have already been automatically assigned to the page placeholders of an automatically generated page list.
- The preview pane (2) shows a preview of the sheet layout. The appearance of the sheet layout depends on the imposition parameters configured in the right-hand area of the window. You can choose between different views and use various tools to see detailed information about the pages shown.
- You can set all the parameters that are required for imposing the pages on the printing material and for setting up the press (display, finishing) in the various tabs in the setup pane (3):
 - "Paper and page settings",
 - "Layout settings",
 - "Print mark settings",
 - "Color settings" and
 - "Print and finishing settings".

The basic output parameters were already set up in the settings of the loaded "PagePrint_HDCity" sequence template (see [section "Configure a PagePrint Sequence", page 30](#)). You can modify the output parameters here if required. These settings affect the open job.

Color settings

In the "Color Settings" tab, you can define settings for spot color replacement that cannot be set by default in a PagePrint sequence:

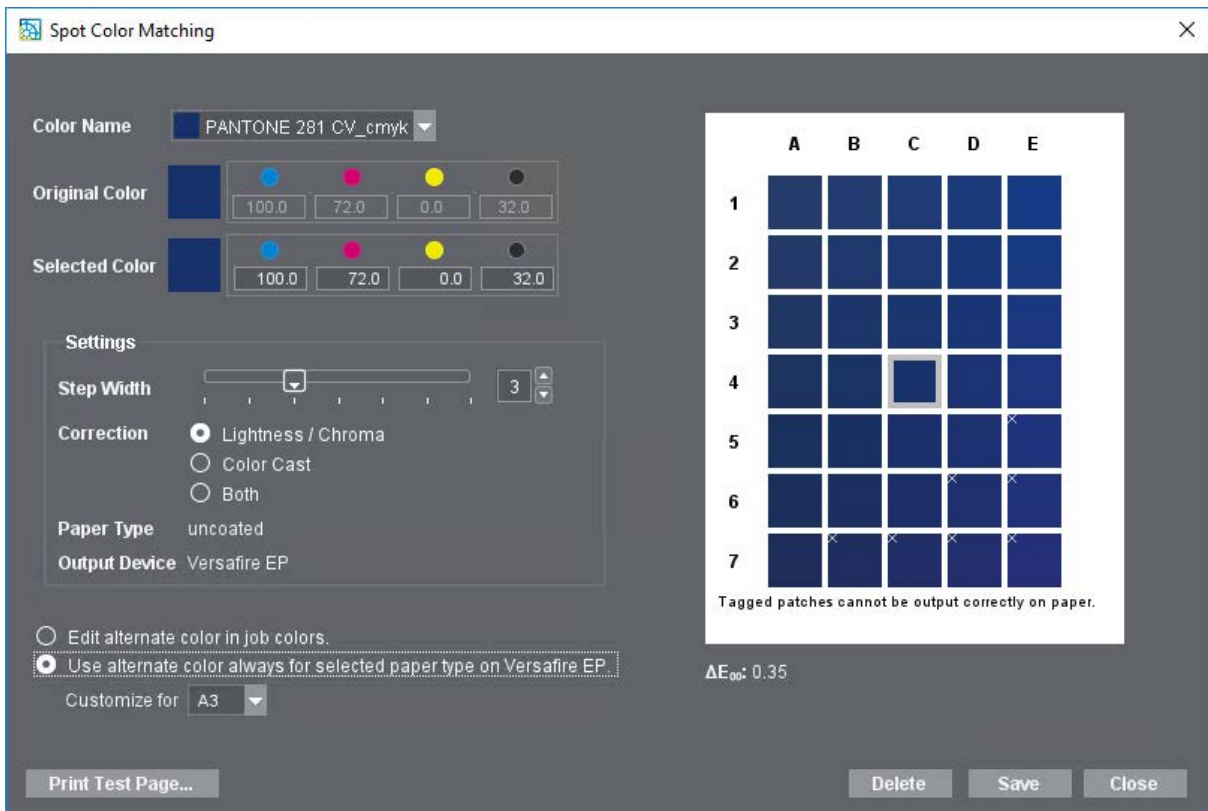


In "Spot Colors" you can configure custom settings for replacing spot colors in the current job by clicking "**Spot Color Matching**" (1).



Note: The settings always relate to a specific paper type on a specific press. These settings always affect all digital print jobs until you change these settings again.

The "Spot Color Matching" dialog opens:



Manual Creation of a Print Job

1. In the **"Color Name"** list box, first select the spot color for which you want to define a substitute color. All the spot colors that are in the current print job are listed.

The original color displays in the middle color patch "C4" in the preview window. Modified colors display around the original color. Colors that cannot be output correctly to the paper set in the print job are marked by an "x".

The aim of these settings is to determine a color that can be output correctly, in other words, a color that is not marked by an "x".

2. Click **"Print Test Page"**. A test chart is printed.



Note: Each test chart printout creates a new separate print job in the DFE. These test chart print jobs are set up with the color settings that are required for a true-color output.

3. Now compare the printout of the test chart with the original copy and determine the color patch that best matches the original spot color.
4. If the deviation is still too big, enable either **"Lightness/Chroma"** and/or **"Color Cast"** in **"Correction"** to set the type of color change. Now move the **"Step Width"** slider until suitable patches display in the preview window. The larger the step width, the greater the differences between each of the color patches.
5. Repeat steps 2, 3 and 4 until you are satisfied that the target color is determined accurately enough. On the test chart, the patch with the correct color has an "address", e.g. "B 2".
6. Click the appropriate patch (e.g. "B 2") in the "Spot Color Matching" dialog.
7. The CMYK values of the original color display in **"Original Color"**. The values of the selected color display accordingly in **"Selected Color"** (in our example, those of "B 2").



Note: If you wish, you can manually set the color of the marked color patch by entering CMYK color values in "Selected Color". If HEIDELBERG Inkjet digital presses (e.g. Labelfire) are used, L*a*b* values display in this case. You cannot edit these values because these printing presses use a Multicolor color space.

8. Enable **"Edit alternate color in job colors"** if you wish to set the alternate color only for the current print job.

If the alternate color is to be set always for the paper type used, enable **"Use alternate color always for selected paper type ..." on (...)"** and select the paper type in the **"Customize for"** list box. Then these settings affect all print jobs that are printed with this paper type on this press. This setup is applicable until you edit it again.

9. If you are satisfied with the colors selected, confirm the dialog with **"Save"**.

Use the **"Delete" button** to reset all the settings so that special spot color settings are no longer defined for the particular paper type/press combination.

The **"Paper Type"** and **"Output Device"** boxes are for your information only.

Editing options in the preview pane



Note: You can find details about these options in the Online Help of the Prinect Cockpit > "Digital Printing" step (invoke with the F1 key).

In the preview pane, different view and check options are available:

- Toggle the view mode between sheet, layout, separations, area coverage and reading view
- You can use the hand tool to move the image content of the preview.
- You can measure dimensions with the dimensioning tool.
- Use the zoom tool to set the display scale of the preview.
- Use the magnifying glass tool to zoom in on a section of an image like a magnifying glass.
- The info tool provides detailed information about a specific part of the preview.
- The ["Color Matching" function](#) lets you customize color reproduction in digital printing.

"Color Matching" function

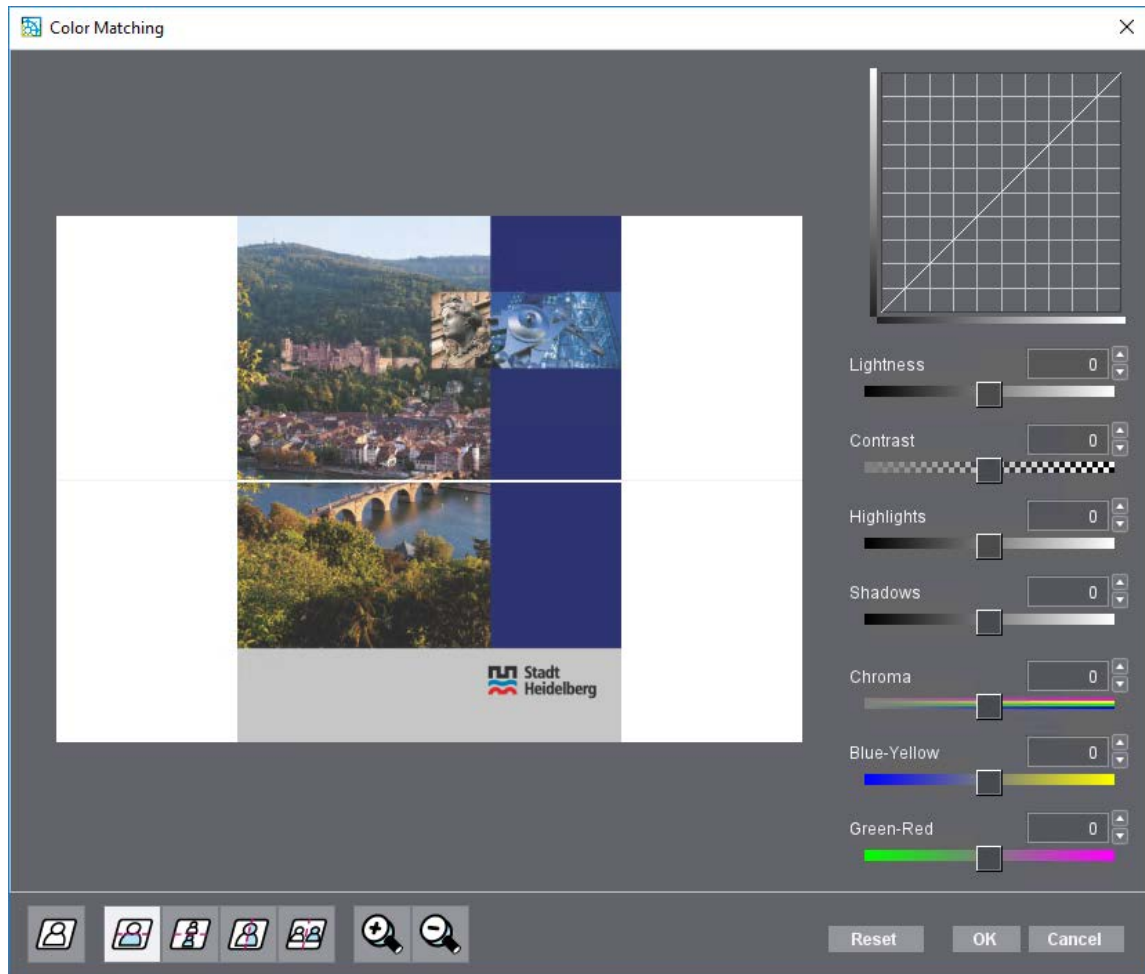
Sometimes it is necessary to fine-tune color reproduction in digital printing just before printing, based on what you see on the screen. The "Color Matching" function lets you define such color settings based on a master page taken from the current print job. These settings only affect the print job that is currently being edited.



Prerequisite: If this functionality is to be used for a realistic proof preview of the expected print results, the screen used should be color calibrated and suitable as a proof monitor.

1. In the preview window, mark a page that contains one or more image objects that are suitable for evaluating color matching.
2. Click **"Color Matching"**. The "Color Matching" dialog opens:

Manual Creation of a Print Job



3. In this dialog, you can adjust gradation parameters "**Lightness**", "**Contrast**", "**Highlights**" and "**Shadows**". You can check these parameters in a gradation curve in addition to the preview.
4. Apart from these, you can also set color parameters "**Chroma**", "**Blue-Yellow**" weighting and "**Green-Red**" weighting. You can review these settings in the page preview.
5. You can set the gradation and color data either using the sliders or by entering values.
6. There are seven buttons in the lower left part of the "Color Matching" window:

Use the five left buttons to alter the separating line between the original and the customized area of the image preview. You can choose between the following settings:

- No separating line (the whole preview window shows the customized color data)
- Horizontal separating line, the preview is split horizontally
- Horizontal separating line, the preview is duplicated
- Vertical separating line, the preview is split vertically
- Vertical separating line, the preview is duplicated

You can use the two "magnifying glass buttons" to scale up or down the preview.

7. The **"Reset"** button lets you reset all the settings to their original values.
8. Click **"OK"** to apply the settings to the whole print job and close the "Color Matching" window.

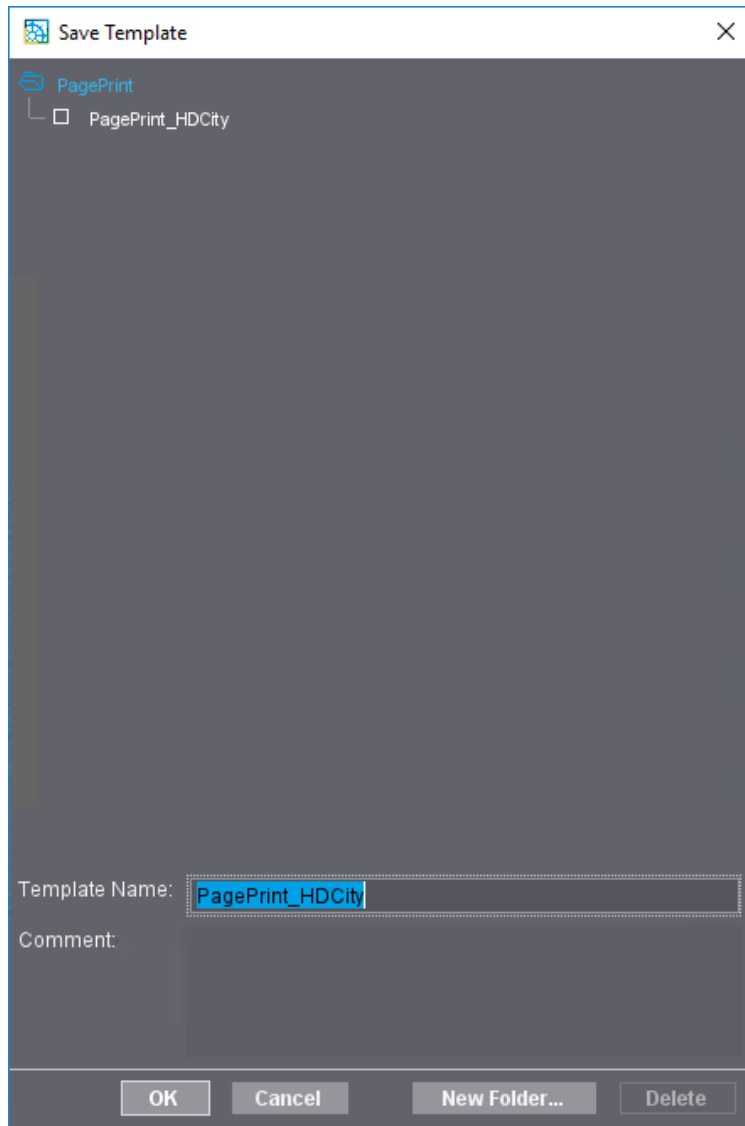
Save settings as a PagePrint sequence template

If you changed output parameters, you can save the new settings as a PagePrint sequence template. You can then use this template for other print jobs. In the case of the current print job, you do not have to save the settings as a separate step. They are automatically saved with the print job.



1. The currently active PagePrint sequence displays above the parameter tabs. In our example, this is "PagePrint_HDCity" (1).
2. Click the "Save Template" button (2). The "Save Template" dialog opens:

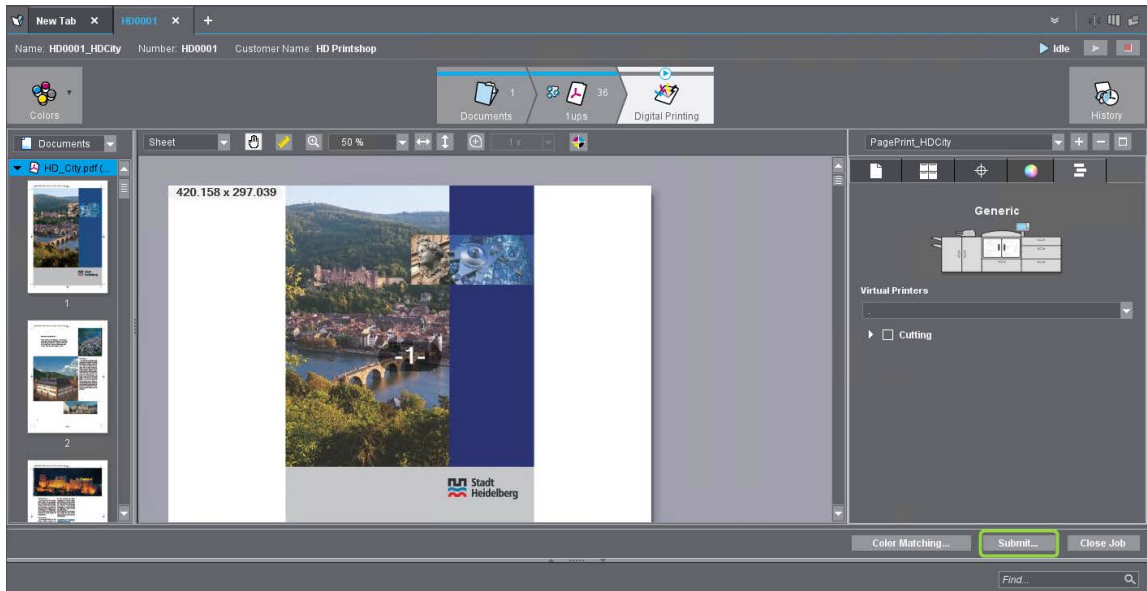
Manual Creation of a Print Job



3. This is where you can assign a new name. The settings are then saved as a new PagePrint sequence template. If you do not wish to change the name of the sequence, the existing "Page-Print_HDCity" sequence is overwritten with the new settings.
4. Confirm the dialog with "OK". Confirm the alert message that appears also with "Yes".

Printing

1. To check your print and finishing settings, go to the "Print and finishing settings" tab. Define your setup as required.
2. Click "Submit" (1) to start printing.



The "Submit" dialog opens:

Manual Creation of a Print Job

Submit 36 Page(s)

Output

Number of 1 ups: 5000 Test Print 1

Print Amount: 1

Print Range

All Pages Sheets

Range:

Priority Normal

Details

Work Type: Normal Work Mode: Normal

Comment:

Scheduling

Do Not Start Before 12/29/24, 6:42 PM

Planned Start 12/29/24, 6:42 PM

Latest Completion 12/29/24, 6:42 PM

OK Cancel

3. In this dialog, you can assign a priority, correct the delivery quantity, set front and back properties, assign a work type, enter a comment and set the time for printing. In this dialog, the terms "number of 1ups" or "number of pages" and "print quantity" have the following meaning:

- **Number of 1ups/Number of Pages:** If you want to print a specific number of pages or 1ups, select the "Number of pages" option. The number of pages/1ups that have been set will be printed.
- **Print Amount:** Here you can set the print amount. The print amount depends on the type of product to be printed:
If a product is printed with multiple pages, e.g. with two A4 pages on A3+ paper, the print amount refers to each (multiple) occurrence of each page of the PDF document.
If a single-use product is issued, such as a brochure, the print amount refers to the number of copies issued.

- (4). The **"Test Print" option** (1) is only available for toner-based HEIDELBERG digital printing presses, such as Versafire machines. If you enable this option, you can print the job as a test print, for example to check the color quality. Enabling this option has the following impacts:
- The print amount is automatically set to "1" because usually you need only one copy as a test print. You can increase the print amount manually, if required.
 - The work type is set to "Internal".
 - The parameters in the "Scheduling" section are disabled.
 - After output, a test print is not tagged as "finished".

If the job is to be output normally after the test print, all you have to do is submit it again and disable the "Test Print" option. The parameters set beforehand in the "Submit Elements" dialog are enabled again.

5. The print job is submitted to the Digital Printing Terminal when you confirm this dialog with "OK". In this sample configuration, the print job is submitted directly to the press because the automatic output mode is enabled in the Digital Printing Terminal (see [section "Configure the Digital Printing Terminal", page 39](#)).
6. After output, you can close the print job.

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Automatic Creation of New Jobs using Drag-and-Drop

The Prinect DFE lets you use a predefined print job as a template for other print jobs and outputs. The documents of the subsequent print jobs are then processed with all the job settings of the template job. To create and start a follow-up job, you simply need to drag and drop the PDF documents you want to output from Windows Explorer (or Mac Finder) onto the corresponding template job in the cockpit's job list. This process is explained in more detail below.

Prerequisites for the Drag-and-Drop Mode

For this workflow, some prerequisites must be met on the Prinect DFE computer so that automated job processing works smoothly.



Prerequisite: The following requirements must be met for output with a reusable print job:

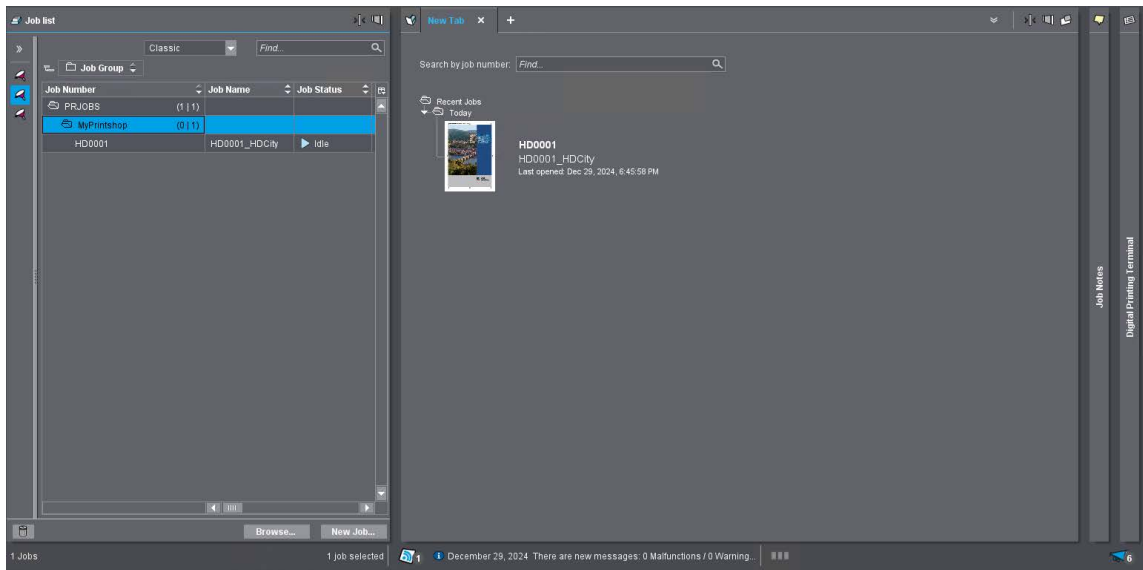
- A print job for digital printing must be defined as a template job and it must have all the required matching settings (sequences, imposition and finishing parameters).
- The print job condition must be "Idle" and the processing status must be "OK". The print job must be closed before output and it must be seen in the Cockpit job list.
- The sequences required must have been assigned to the print job as a template, either separately or as a group sequence. This ensures the automated processing of printing.
- The documents to be output must be able to be edited without an error and their page size must match the imposition settings in the PagePrint sequence. The number of pages does not have to match the page total defined originally in the PagePrint sequence. It will be matched automatically during output.

Prepare a Print Job

We will use the "HD0001_HDCity" booklet print job as our basis, like in [chapter "Manual Creation of a Print Job"](#).

After the "HD0001_HDCity" job was configured and used successfully for output of the "HD_City.pdf" document, you will now create a similar job for automated output.

Automatic Creation and Output of New Jobs using Drag-and-Drop



1. Go to "Jobs" view, mark the "MyPrintshop" group in the job list, and click "New Job".
2. Fill out the "Basic job data" view as follows:

The 'Create New Job' dialog box features a progress bar at the top with four steps: 'Basic job data' (active), 'Customer Data', 'Processing', and 'Scheduling'. Below the progress bar, a folder icon is shown on the left and the text 'Please enter a number and a name for your new job.' is centered. The form contains several input fields: 'Job Number' with the value 'HD0002', 'Job Name' with 'HD0002_Auto_DD', 'Documents' (empty), 'Job Group' with '/PRJOBS/MyPrintshop', and 'Job Home' with '\KIE-C6VPNDPMPTJobsJobsMyPrintshop'. To the right of the 'Job Number' field is an unchecked checkbox labeled 'Automatic'. To the right of the 'Documents' field is a 'Browse...' button. To the right of the 'Job Group' and 'Job Home' fields are 'Change...' buttons. At the bottom left, there are two unchecked checkboxes: 'Start Job' and 'Maximize Job View'. At the bottom right, there are four buttons: '<< Back', 'Next >>', 'Finish', and 'Cancel'.

- Job number: HD0002.
- Job Name: HD0002_Auto_DD.
- Job Group: MyPrintshop (is set by default).
- The "Start Job" option is disabled. Click "Next".

Automatic Creation and Output of New Jobs using Drag-and-Drop

The screenshot shows the 'Create New Job' dialog box with the 'Customer Data' step selected in the progress bar. The dialog contains the following fields:

- Customer Name: HD Printshop
- Customer ID: 0001
- Nickname: HDP
- Customer Job ID: HD0002
- Customer Job Name: HD0002_Auto_DD

At the bottom, there are four buttons: '<< Back', 'Next >>', 'Finish', and 'Cancel'.

3. Select "HD Printshop" as the customer in the "Customer Data" view. Then click "Next".

The screenshot shows the 'Create New Job' dialog box with the 'Processing' step selected in the progress bar. The dialog contains the following elements:

- A list box containing 'HDCity_Group_Template'.
- A checkbox labeled 'Save as default'.
- 'Remove' and 'Add' buttons.

At the bottom, there are four buttons: '<< Back', 'Next >>', 'Finish', and 'Cancel'.

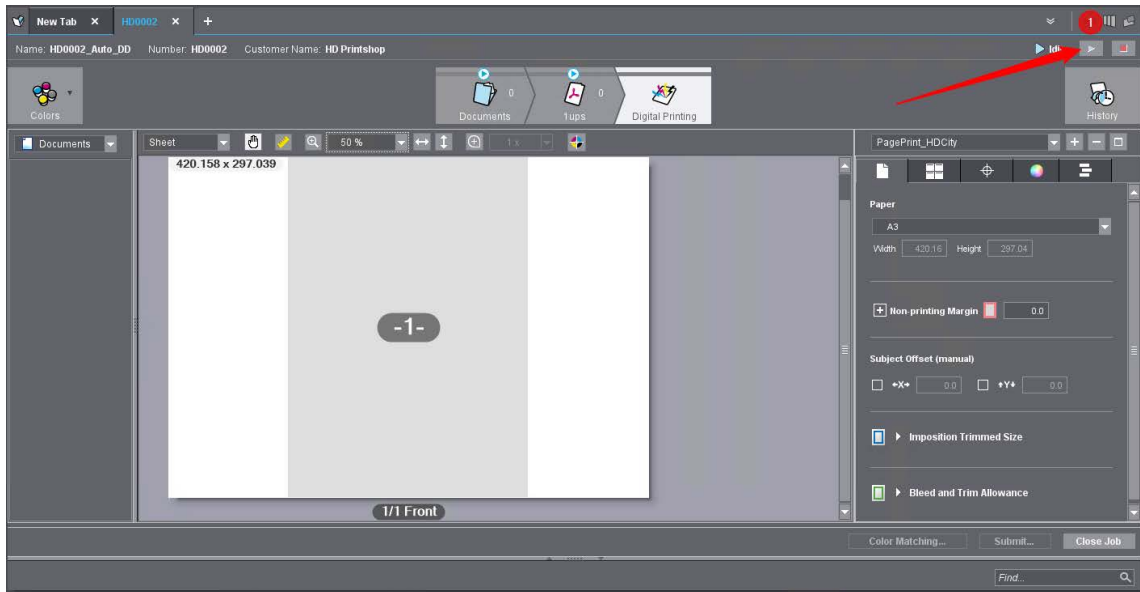
4. In the "Processing" view, "HDCity_Group_Template" is already set by default because we added this group sequence template with the "Save as default" option to the manually created job (see [chapter "Manual Creation of a Print Job"](#)). If you wish to add other sequences to the job, you can do this by using "Add". You can remove existing sequences – including group sequences – from the job by marking them and clicking "Remove".
5. No scheduling data will be entered because the job is being set up as a reusable template for automated printing. For that reason, we will skip "Scheduling". Click "Finish".

Automatic Creation and Output of New Jobs using Drag-and-Drop

The job is created and opens.

6. Double-click the caption bar (and not the tab, but next to it) of the "Job" window to maximize the width of the window. All the job settings and the "Documents" and "Pages" steps remain unchanged because different documents with the same settings will be output in an automated workflow. Go directly to the "Digital Printing" step (click this icon in the workflow bar).

All the required output settings are already configured because the "HDCity_Group_Template" contains the preset "PagePrint_HDCity" sequence.

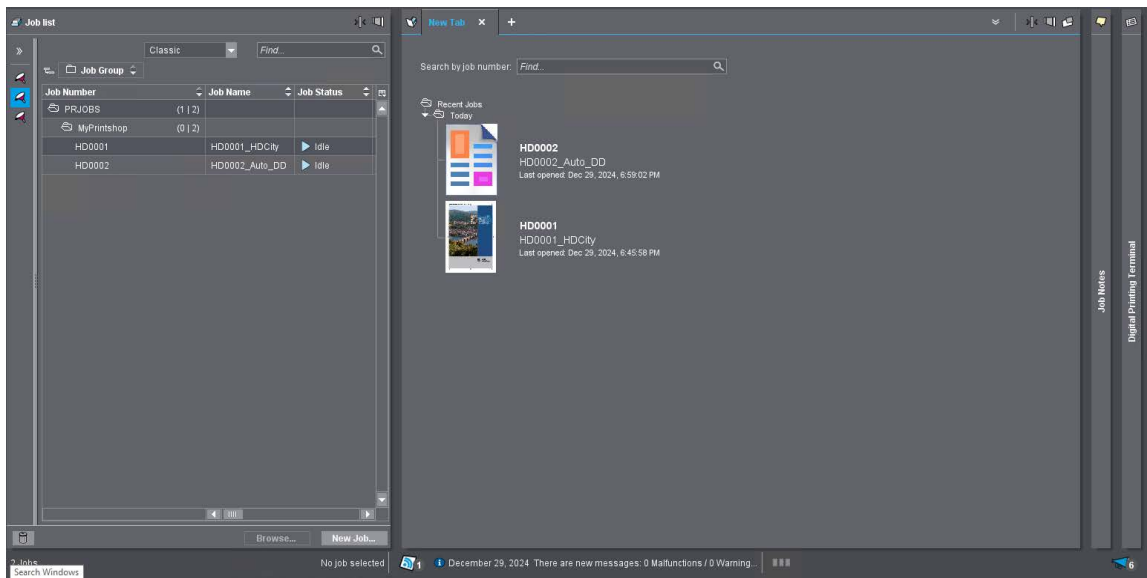


7. Leave the settings as they are. You will find more details about the "Digital Printing" step in the [section "Set up and output digital printing", page 55](#) or in the Online Help of the Cockpit (F1 key).
8. Start the job by clicking the start button (1).
9. This concludes your preparations for the automatic job. Close the job with "Close Job". All settings are saved automatically.

Automated Output of Documents

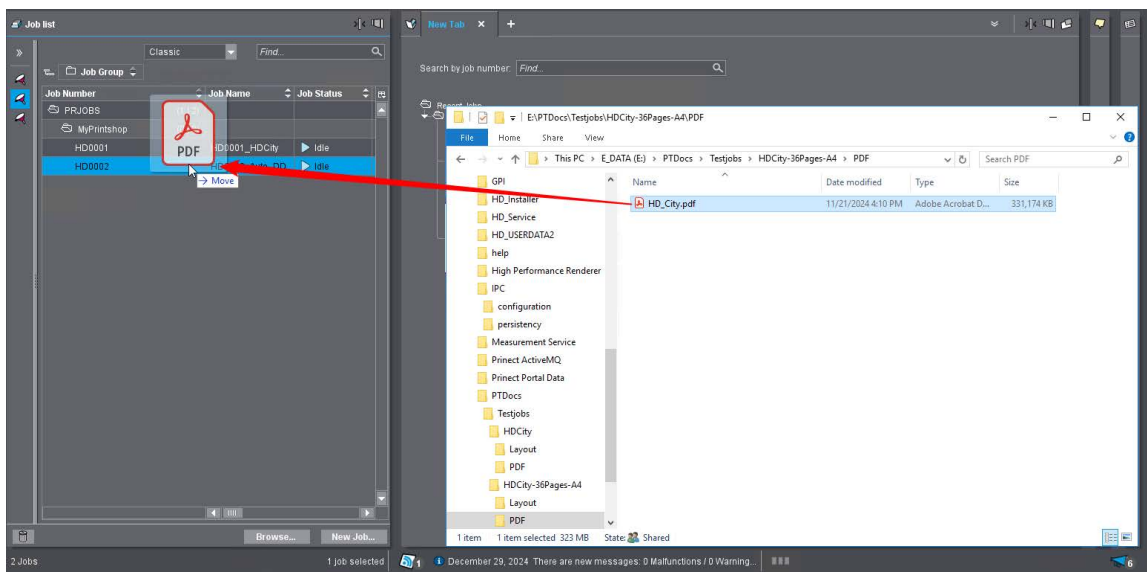
1. Open the Cockpit and view the job list on the left in the "Jobs" view.
2. If necessary, open the job group (in our example, "MyPrintshop") that contains the prepared job and make sure that the "HD0002" job can be seen.

Automatic Creation and Output of New Jobs using Drag-and-Drop



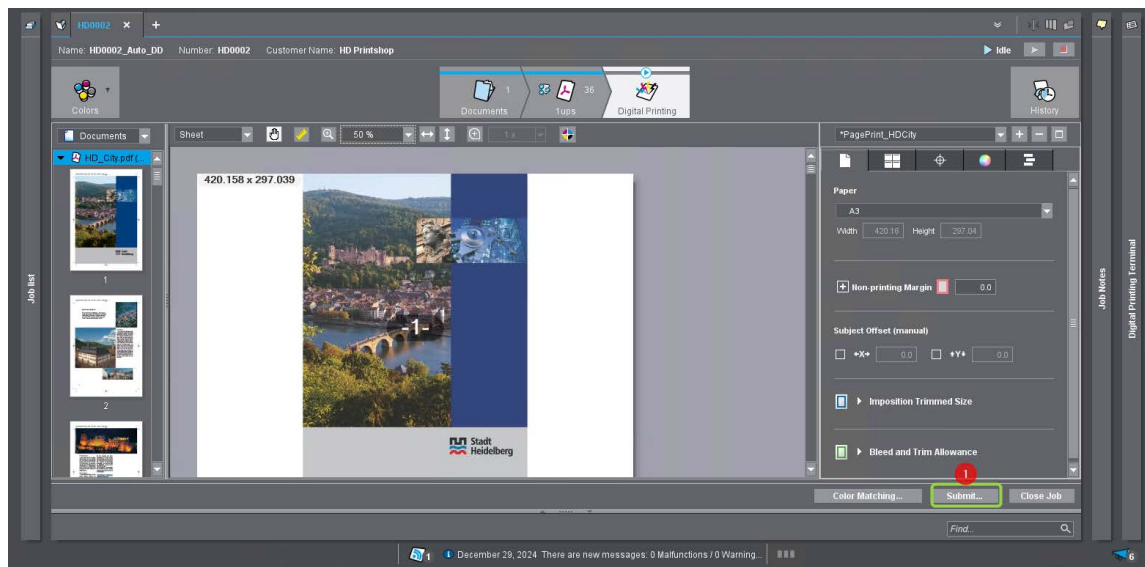
We will use the "HD_City.pdf" document again as the example document.

3. Open a Windows Explorer window (or a Macintosh Finder one) and go to the folder which holds the PDF file to be output. This folder must be located on a local drive, data media or on a shared network drive of the Cockpit computer.



4. Select the PDF file(s) and drag them, holding down the left mouse button, to the "HD0002" print job entry and let go of the mouse button. The job then opens automatically and displays in the "Job" window.
5. To print the print job, maximize the width of the "Job" window (double-click the caption bar) and go to the "Documents" step. Wait until the documents are processed and then go to the "Digital Printing" step.

Automatic Creation and Output of New Jobs using Drag-and-Drop



- (6). If required, you can customize your settings in this step (see [section "Set up and output digital printing", page 55](#)).
7. Click "Submit" (1). The "Submit Elements" dialog opens:

Automatic Creation and Output of New Jobs using Drag-and-Drop

The screenshot shows a 'Submit' dialog box with the following fields and options:

- Submit 36 Page(s)** (with a document icon)
- Output**
 - Number of 1ups: 5000
 - Print Amount: 1
 - Test Print (with a red circle containing the number 1)
- Print Range**
 - All Pages Sheets
 - Range: [Empty text box]
- Priority**: Normal (dropdown menu)
- Details**
 - Work Type: Normal (dropdown menu)
 - Work Mode: Normal (text box)
 - Comment: [Empty text area]
- Scheduling**
 - Do Not Start Before: 12/29/24, 6:42 PM
 - Planned Start: 12/29/24, 6:42 PM
 - Latest Completion: 12/29/24, 6:42 PM
- Buttons: OK, Cancel

8. In this dialog, you can still assign a priority, correct the print amount, assign a work type, enter a comment and set the time for printing.
9. The print job is output to the press when you confirm this dialog with "OK".
10. After output, close the print job.

Output Other Documents

Repeat steps 1 thru 10 to output other documents automatically.

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Create New Print Jobs by Copying PDF Files to a Hotfolder.

With the Prinect DFE you can set up a print job in such a way that new print jobs are automatically created when documents are filed in a folder that is set up as a "hotfolder". In this chapter we will set up such a print job and describe how to create new jobs.

Prerequisites for the Hotfolder Mode

For this workflow, some prerequisites must be met on the Prinect DFE computer so that automated job processing works smoothly.



Prerequisite: The following requirements must be met for output with a reusable print job:

- A hotfolder job template must have been set up in "Administration > Hotfolder". This job template must have all the required settings (sequences, imposition and finishing parameters) in a suitable form.
- An "external hotfolder location" must have been defined to be able to set up a hotfolder job template. For a Prinect DFE setup, the "\\PTJobs\\External-Hotfolder" folder is installed by default. Open "System" in the "Administration" view if you want to change this setting. In the tree structure, mark "System", the topmost item (if necessary, you must click "Hide Clusters"), and then click "Browse..." in "External Hotfolders Location" on the right. In the dialog that then displays, you can select a different folder or create a new one. You can also define an "External Hotfolders Location" on a different computer to the Prinect server. You can find more details about creating an external hotfolder location in the Online Help for the Prinect Cockpit in "Administration - System". In our example, we will leave the default "\\PTJobs\\External-Hotfolder" as it is.
- The sequences required must have been assigned to the job template, either separately or as a group sequence. This ensures the automated processing of printing.

Automatic Creation and Output of Print Jobs in the Hotfolder Mode

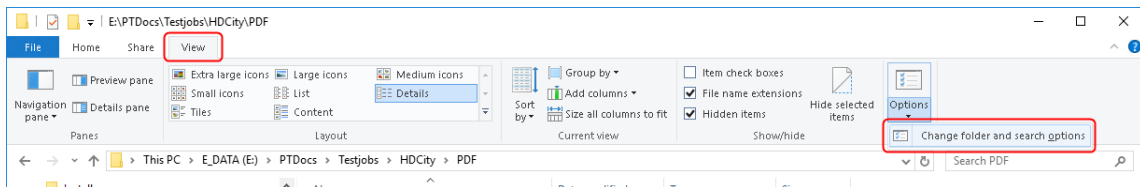
- The documents to be output must be able to be processed without an error and their page size must match the imposition settings in the PagePrint sequence. The number of pages does not have to match the page total defined originally in the PagePrint sequence. It will be matched automatically during output.

Disable Preview Handler in Windows Explorer

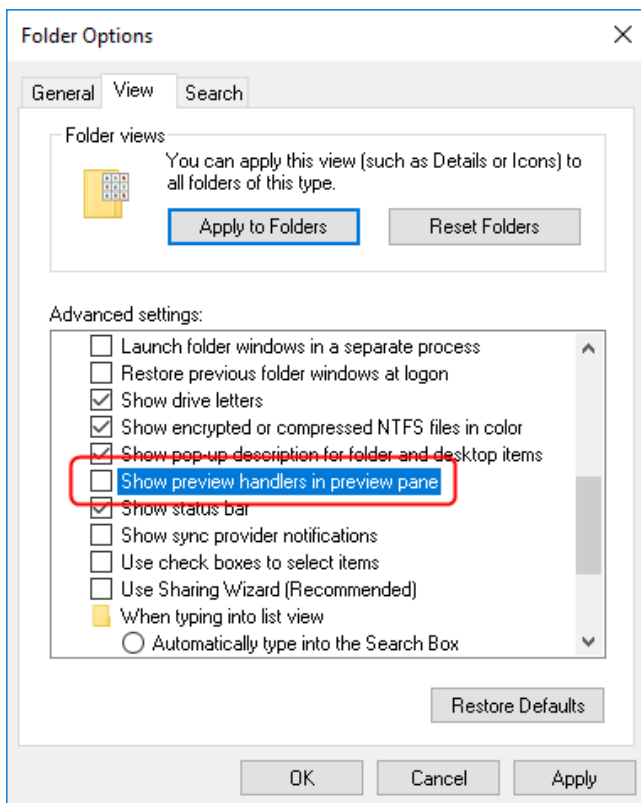
The Windows Preview Handler is responsible for displaying previews of the different file types in a Windows Explorer window.

Problem: A Prinect hotfolder can no longer be polled correctly if the Preview Handler needs more than six seconds to calculate a preview. As a result, the PDF documents are not processed.

1. Open a Windows Explorer window and invoke the "Folder Options" dialog (either with "Tools > Folder Options" if the menu bar displays or with "Organize > Folder and Search Options" or with "View" > Options > Change folder and search options") (Windows 8.1/Windows 10/Windows Server 2012 R2/Windows Server 2016):



2. Open the "View" tab and disable "Show preview handlers in preview pane".



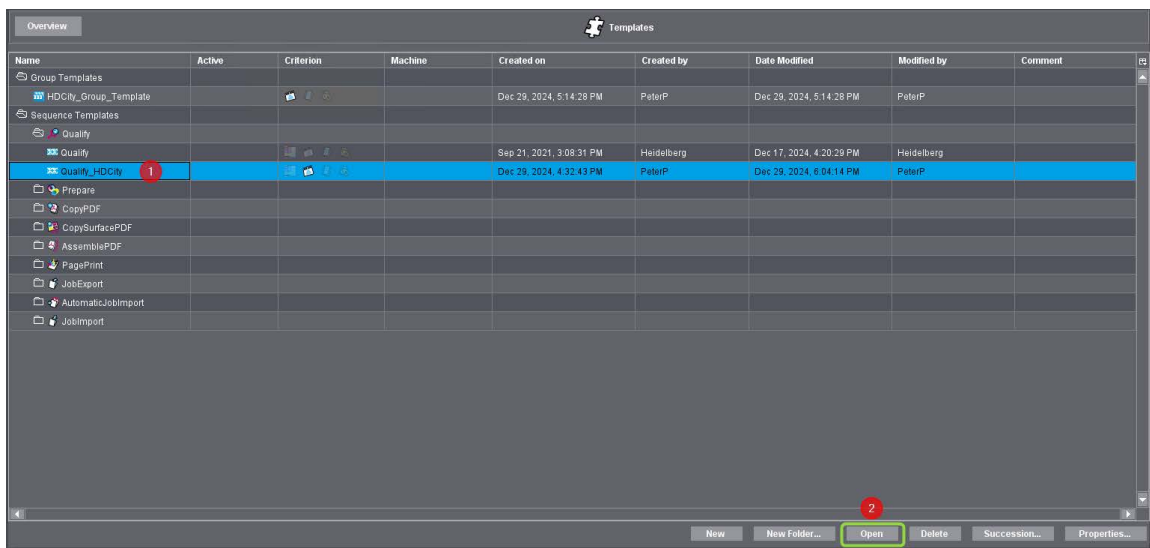
Automatic Creation and Output of Print Jobs in the Hotfolder Mode

3. Confirm the dialog with "OK".

Prepare a Print Job

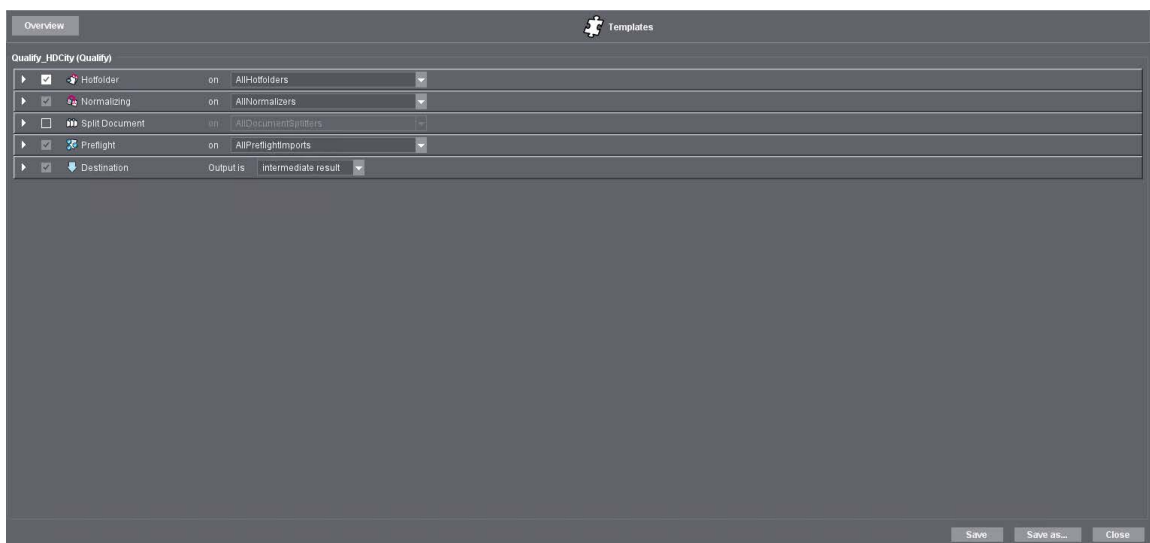
We will use the "HD_City.pdf" booklet print job as our basis, like in [chapter "Manual Creation of a Print Job", page 45](#).

Set up a Qualify sequence for the hotfolder mode



1. Open the "Qualify" sequence folder and highlight "Qualify_HDCity" (1). Click "Open" (2). Alternatively, you can also open the sequence by double-clicking it.

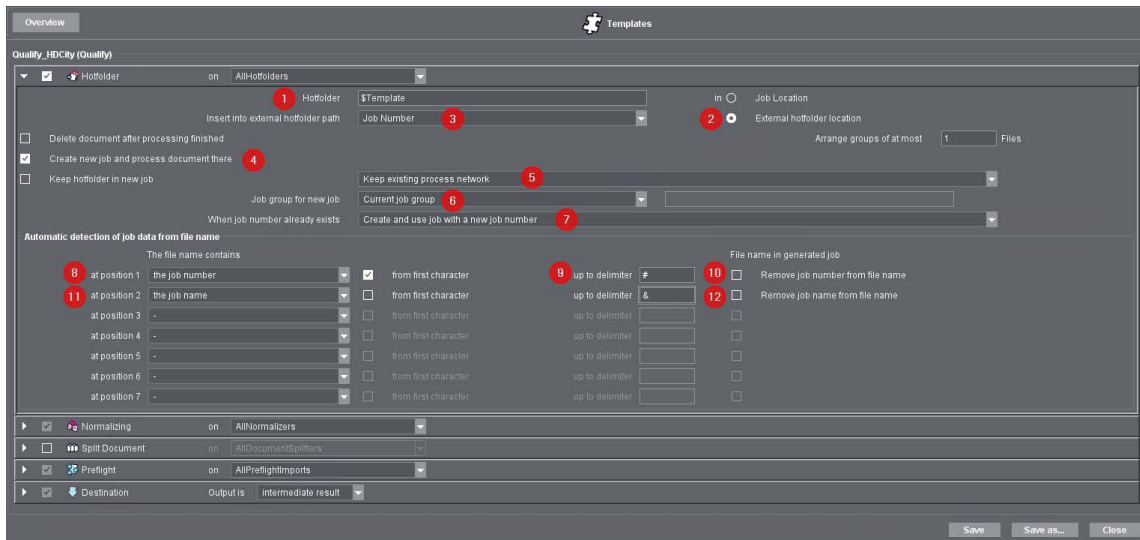
The setup section for the "Qualify_HDCity" sequence opens:



Automatic Creation and Output of Print Jobs in the Hotfolder Mode

Set this sequence as follows:

2. Leave "Normalizing", "Split Document", "Preflight" and "Destination" as they are.
3. Enable "Hotfolder" and set the following parameters:



- a. In the "Hotfolder" box (1) leave the "\$Template" setting as it is. This setting makes sure that the file names of the job documents are used for the names of the new jobs.
- b. Enable the "in External hotfolder location" option (2). With this option, the new jobs are stored in the set hotfolder location on the Prinect server.
- c. In "Insert into external hotfolder path" (3), leave "Job Number" as it is. By doing this, a separate subfolder with the job number as the folder name is created for each job.
- d. Enable "Create new job and process document there" (4). When this option is enabled, new jobs are created automatically when document files are filed in the hotfolder.
- e. Select "Keep existing process network" in the list box (5). In this list box, you control how a process network is created automatically from components of the job name, among other things from the product code. A process network is a combination of print job, press sheets and sequences. No Smart Automation workflow will be used in our example and, for that reason, no new process networks will be created using this functionality.
- f. In the "Job group for new job" list box (6) leave "Current job group" set. The new jobs generated are created in the same job group as the original job.
- g. Set "Create and use job with a new job number" in the "When job number already exists" list box (7). Based on the existing job number, a new job number is created by appending an index. After that, a new job is created with this job number.

You can use "The file name contains" to determine detection rules for interpreting the file names of the PDF files you want to process by detecting and using certain parts of the file name as job parameters. You will find more details about these detection rules in the Cockpit Online Help in the "Sequence Templates" section in "Preparation > "Qualify" Sequence Template > Hotfolder" option.

Automatic Creation and Output of Print Jobs in the Hotfolder Mode

We will use a simple example and generate only the job number and job name from the file names.

- h. To do this, select "the job number" in the "in position 1" list box (8). Check the "from first character" option (9) and enter the character "#" in the "up to delimiter" box (10). As a result, the file name of the filed documents is interpreted in such a way that all characters before the "#" in the file name are identified as a job number and are used for the new jobs. The file names of the filed documents must have this delimiter and appropriate characters for the job number in order for new jobs to have a job number.
- i. Then select "the job name" in the "in position 2" list box (11). The "from first character" option remains disabled. Enter the character "&" into the "up to delimiter" box (11). This character acts as a rear limitation for the job name. All characters between these two delimiters in the file name of the filed documents are used as the job name.

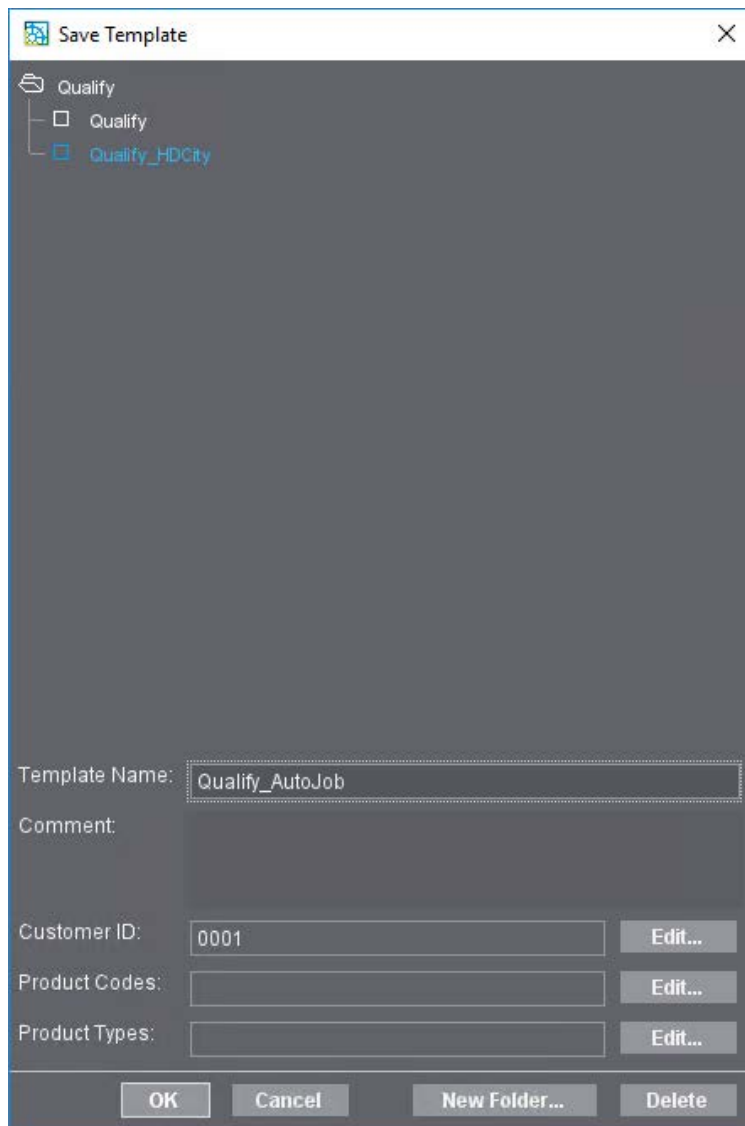
Example: A document named "1234#Brochure_HD&.pdf" creates a job with the number "1234" and job name "Brochure_HD".



Caution: When you define job names, make sure that job names and job numbers in a Prinect system are always unique. A new job will overwrite an existing job if the new job is created in the hotfolder mode and its job name and job number match those of the existing job!

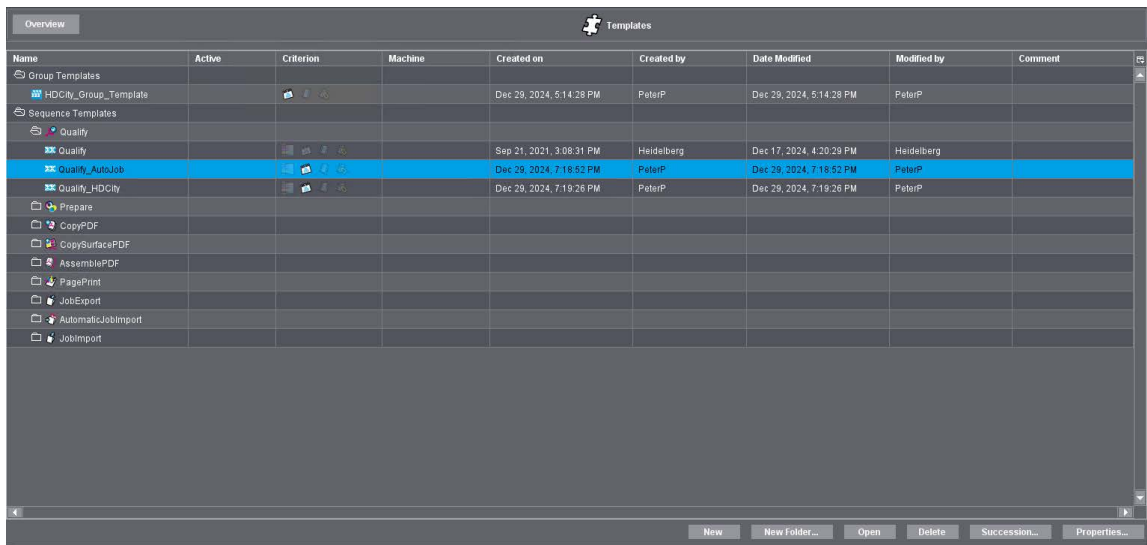
4. Leave the other steps as they are and click "Save as".

Automatic Creation and Output of Print Jobs in the Hotfolder Mode



5. Enter "Qualify_AutoJob" as the name. Confirm the "Save Template" dialog with "OK".
6. Click "Close". The sequence overview displays.

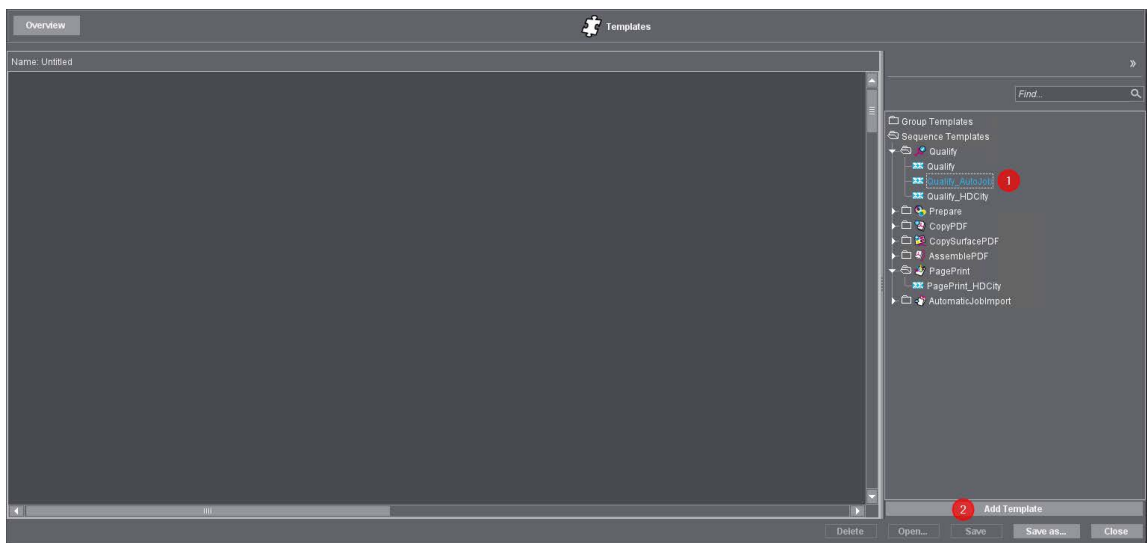
Automatic Creation and Output of Print Jobs in the Hotfolder Mode



Create a group template for automatic job creation

1. In "Administration > Templates", mark "Group Templates" in the sequence overview and click "New".

The empty setup window of a group template opens.



2. Open the "Quality" folder and select "Quality_AutoJob" (1).
3. Then click "Add Template" (2).

An icon for the Quality sequence is created in the workspace.

4. Repeat steps 2 and 3 also for the "PagePrint_HDCity" sequence. The workspace now displays as follows:

Automatic Creation and Output of Print Jobs in the Hotfolder Mode



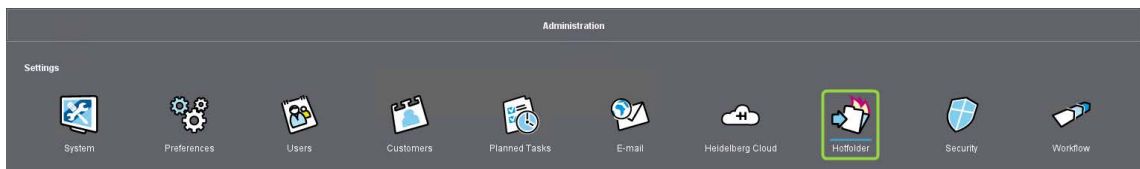
5. In the workspace, select "AutoArrange" in the context-sensitive menu. The icons are placed side by side and aligned.
6. Save the group template as "AutoJob_Group_Template" using "Save as".
7. Close the view by clicking "Close". Then click "Overview".

Automatic creation of print jobs

After the Qualify sequence is configured, a new print job template is now created in "Administration > Hotfolder" and is used for automatic job creation. Hotfolder job templates do not display in the job list so that they are not inadvertently deleted. Administration of these templates is solely in "Administration > Hotfolder".

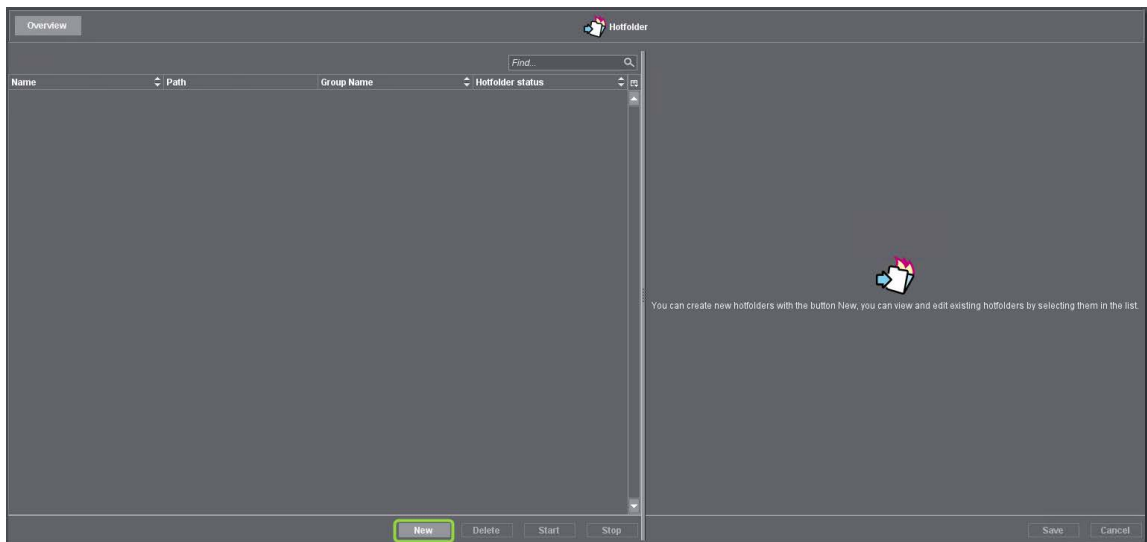
Create a hotfolder job template

1. If not already there, go to "Administration" and click the hotfolder icon.



The section for setting the hotfolder job templates opens. Click "New".

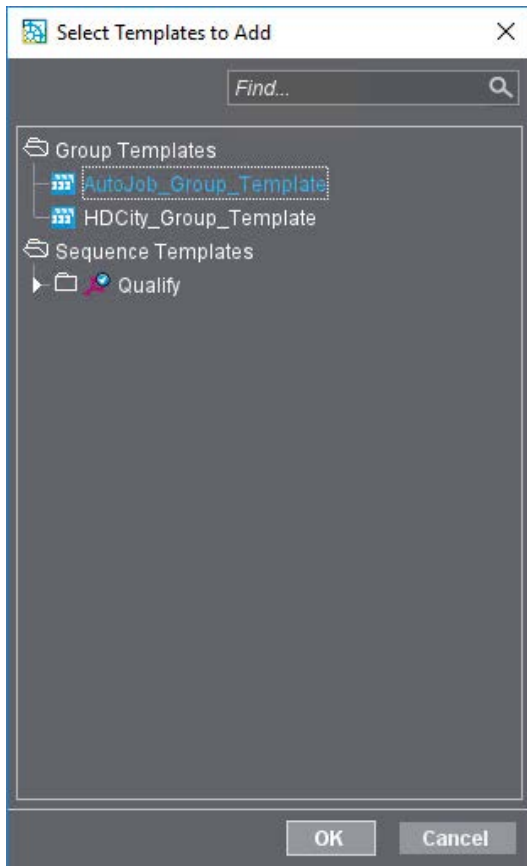
Automatic Creation and Output of Print Jobs in the Hotfolder Mode



Set up the job template as follows:

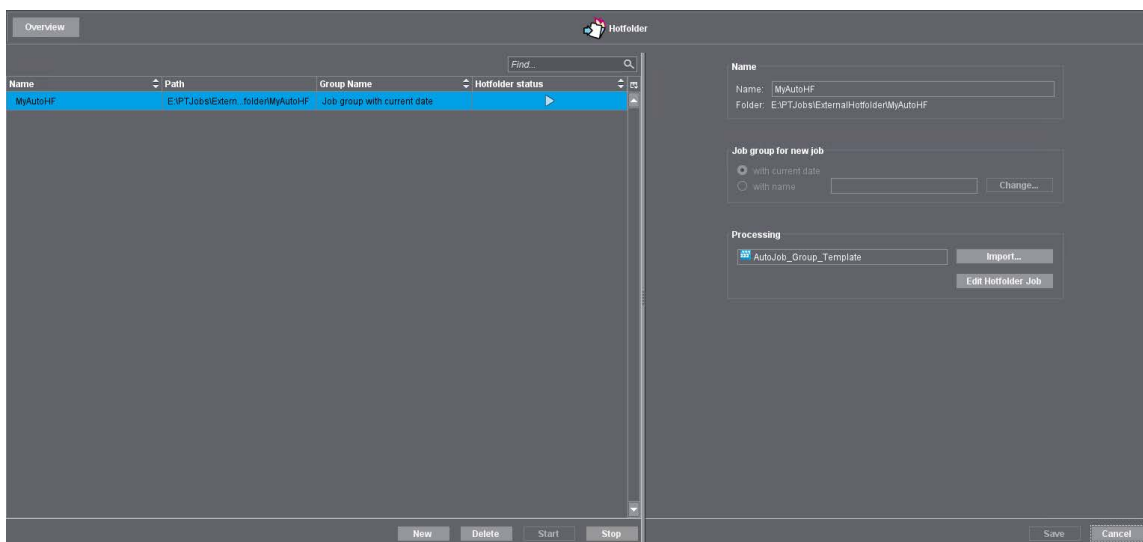
2. Enter "MyAutoHF" as the name.
3. Leave "with current date" enabled in "Job group for new job". This setting generates a separate job group with the current date as the group name for all the jobs created on this day.
4. Click "Import" in "Processing". Select "AutoJob_Group_Template" in the "Select Templates to Add" dialog.

Automatic Creation and Output of Print Jobs in the Hotfolder Mode



Confirm with "OK".

5. Click "Save".



The new job template, "MyAutoHF", displays on the left of the window. You can create other job templates with "New", if required. We now close the view by clicking "Overview". The hotfolder job template is now set up.

Create a New Job by Filing to the Hotfolder

After you prepared the job template for automatic job creation in the hotfolder mode, job processing can begin.

Prepare Document File Names

Delimiters were defined in the hotfolder settings of the Qualify sequence and they can be used to filter out the job number and job name from the document file names. We will customize the file names of the PDF documents to be output so that we have useful job numbers and job names.



Caution: When you define job names, make sure that job names and job numbers in a Princt system are always unique. A new job will overwrite an existing job if the new job is created in the hotfolder mode and its job name and job number match those of the existing job!

We will use the "HD_City.pdf" document again as the example document (see [section "Automated Output of Documents", page 70](#)).

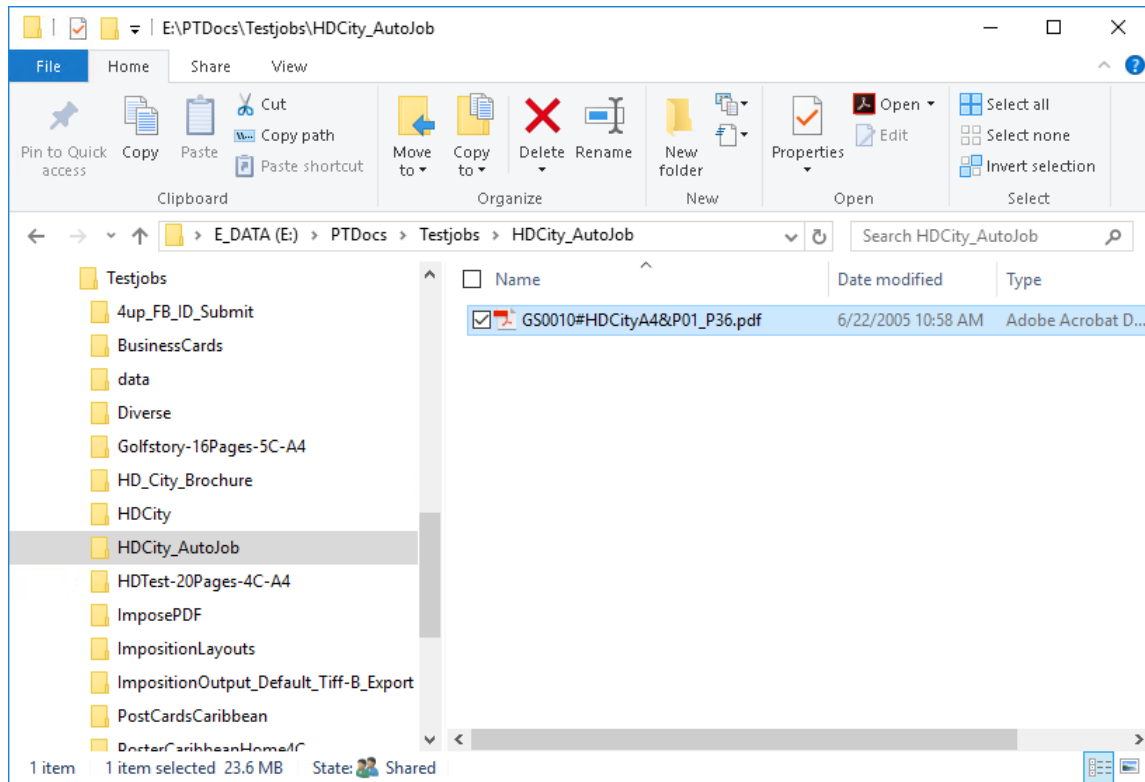
Create and Start a Print Job

1. We will create a new folder named "PTDocs\Testjobs\HDCity_AutoJob" and copy "HD_City.pdf" to this folder. The file will be renamed to "GS0010#HDCityA4&P01_P36.pdf". Based on the set delimiters "#" and "&", a new job with job number "GS0010" and job name "HDCityA4" will be produced.

To output "GS0010#HDCityA4&P01_P36.pdf", you will now copy it to the hotfolder of the "HMyAutoHF" template job:

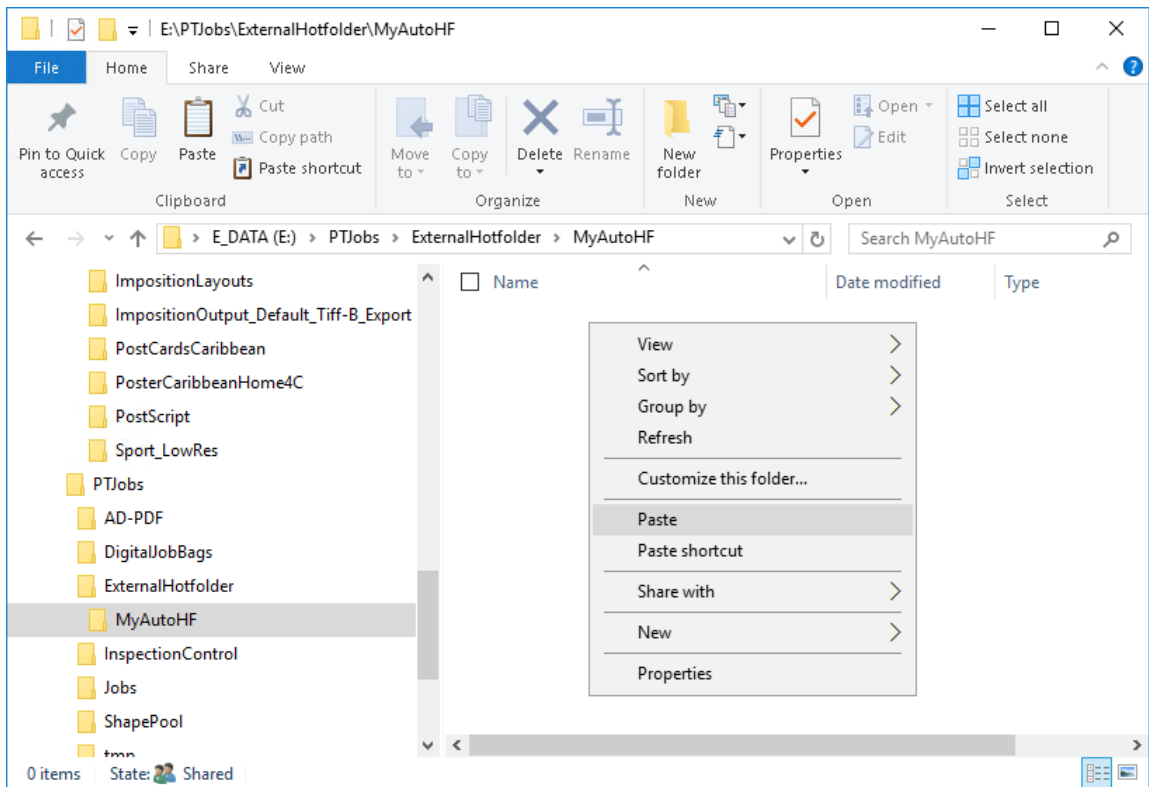
2. In the Windows file system, mark the file and select "Copy" in the context-sensitive menu or click on "Copy".

Automatic Creation and Output of Print Jobs in the Hotfolder Mode

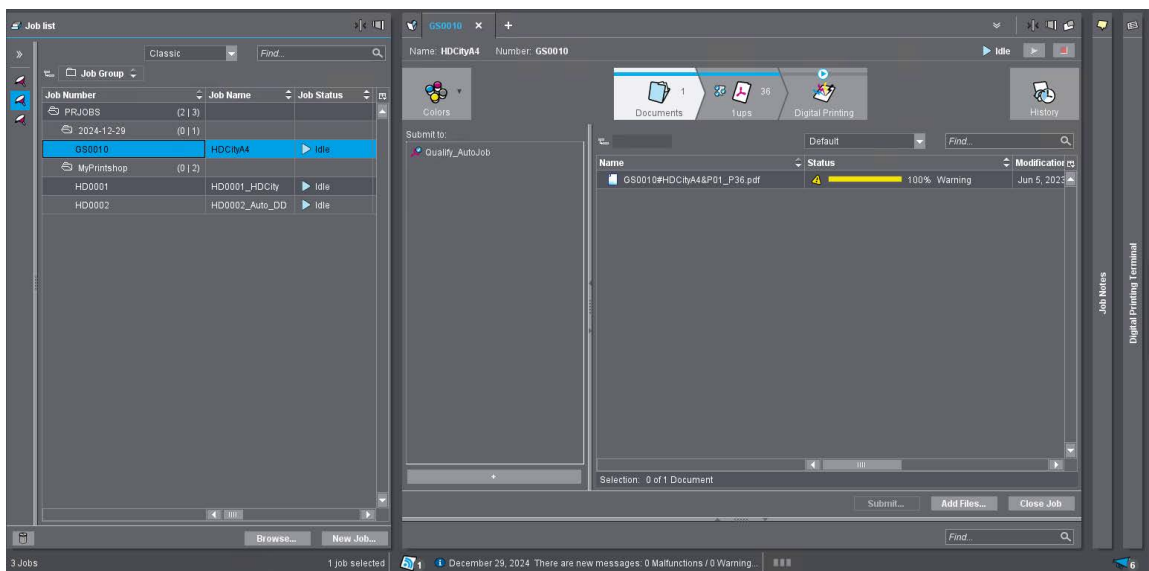


3. Go to the hotfolder of the "MyAutoHF" job. You will find this folder on the Prinect server in the "PTJobs" folder and there in "ExternalHotfolder\MyAutoHF".
4. Select "Insert" in the context-sensitive menu. By inserting the PDF file, you automatically generate a new print job.

Automatic Creation and Output of Print Jobs in the Hotfolder Mode



5. In the Cockpit, go to "Jobs" and there to the job list. After a brief period, a new group with the current date displays below "PRJOBS". This group contains the new job "GS0010".

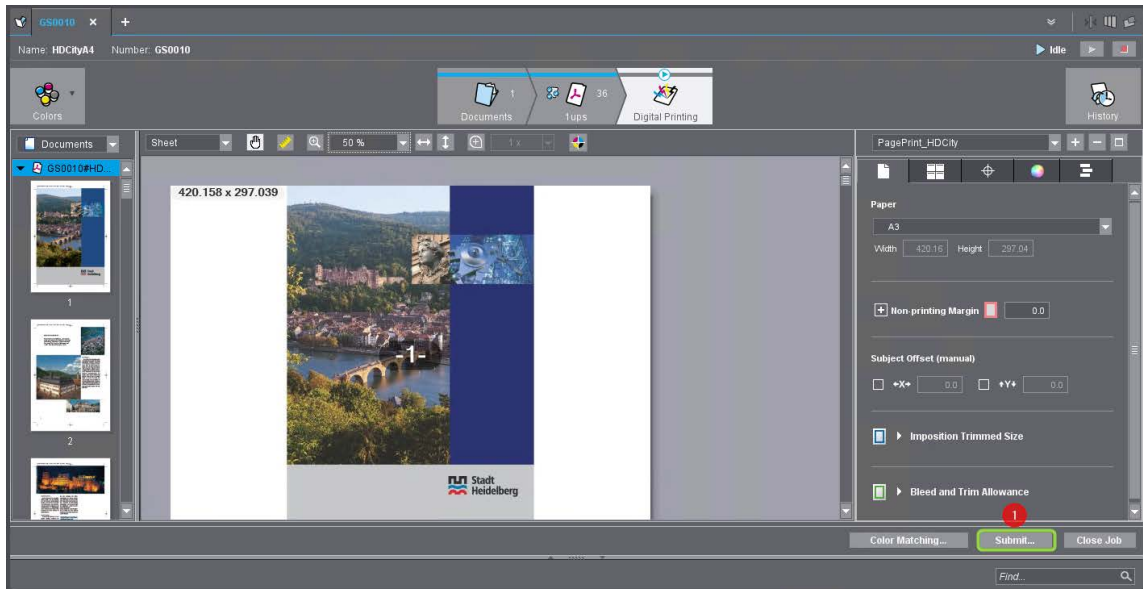


This job starts, is processed and can be output automatically.

6. To output the print job, wait until the documents are processed and then go to the "Digital Printing" step.

Automatic Creation and Output of Print Jobs in the Hotfolder Mode

- (7). If required, you can customize your settings in this step (see [section "Set up and output digital printing", page 55](#)).



8. Click "Submit" (1). The "Submit Elements" dialog opens:

Automatic Creation and Output of Print Jobs in the Hotfolder Mode

Submit 36 Page(s)

Output

Number of 1ups: 5000 Test Print 1

Print Amount: 1

Print Range

All Pages Sheets

Range:

Priority Normal

Details

Work Type: Normal Work Mode: Normal

Comment:

Scheduling

Do Not Start Before 12/29/24, 6:42 PM

Planned Start 12/29/24, 6:42 PM

Latest Completion 12/29/24, 6:42 PM

OK Cancel

9. In this dialog, you can finish off, for example, by running a test print (1), assigning a priority, correcting the delivery quantity and/or entering a comment.
10. The print job is output to the press when you confirm this dialog with "OK".
11. After output, close the print job.

Output Other Documents

Repeat steps 1 thru 10 to output other documents automatically.



Caution: When the "master job" stops, the related hotfolders will also be deleted! For that reason, make sure that the condition of the master job is always "Idle".

In this way, you can automatically generate more print jobs.

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Revision 1.0

Version 2021.10

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