Delta Technology & Print Console

User's Guide

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HEIDELBERG

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About this documentation

This documentation describes all sequences required for the configuration of Delta Technology and the Print Console software.
It contains an introduction to the software, describes the concept of the interworking between Delta Technology and the Print Console as well as the functions of the most important dialog boxes. Furthermore, a description is given of how Delta Technology and the Print Console are configured and the job files processed.

Prerequisites

- You are familiar with the operating sequences in the Prepress environment.
- You have experience in using a PC and the Windows NT operating system.
- You have basic knowledge of operating Delta Technology.
- All hardware/software and network components in your Delta Technology & Print Console system have been installed and work correctly.

Other documentation

- Delta Technology, Application/Workflow
- Print Console, Reference
- Harmony operation
- Trendsetter3230 operation, Trendsetter3244 operation

Symbols and Styles

The following typographical conventions are used in this manual:

- Cross-references to other manuals, chapters, and sections are underlined and, on the monitor, blue.

  Example:
  Refer to Chapter 4, Getting Started.

- *Italics* are used to indicate menus, names of functions, hardware conditions, switch settings, and system messages.

  Example:
  Move the switch to *off*.

- Menus, functions and submenus are separated from one another by a “>”.

  Example:
  Choose *File* > *Open...*

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

  Example:
  Press Alt+A.

- "↳" in front of a word indicates that it is explained in the *Glossary*.

Important Information

Important information in the text is marked by symbols which indicate the following:



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



Attention: 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.



Prerequisites: This text contains requirements which must be fulfilled before the steps which follow can be performed.

Interference to Monitors by Magnetic Fields

Strong magnetic fields may influence your monitor screen (for example, they might make the edges of the screen unsteady or images flicker). This could be caused by the 50Hz magnetic field coming from the power cables routed along your floors or in the wall or by the $16^{2/3}$ Hz coming from the overhead wires of trams.

The following corrective measures are recommended taking into account the safety regulations for working at monitors in offices:

- place the monitor at a different location
- shield the source (e.g. shield the cable duct)
- change the routing of the power supply cable
- shield the monitor by means of a metal cover

Any Comments on this Documentation?

We would like to know if our documentation meets your requirements.

- Can you find the information you are looking for? (and quickly enough?)

- Does this documentation help you to solve any problems which might occur?
- Where do you think there is room for improvement?

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Overview of the overall system

In order to be able to operate the Trendsetter Spectrum using Delta Technology, it is also necessary to use the Print Console and Harmony software.

This guide specifically only describes the use and configuration of the Print Console using Delta Technology. More detailed information can be found in the following product-specific documentation:

- Delta Technology, Application/Workflow
- Print Console, Reference
  Available on paper or as a PDF file in the *D:\pdf* directory.
- Harmony operation
  Available on paper or as a PDF file in the *D:\Delta\Harmony* directory.
- Trendsetter3230 operation, Trendsetter3244 operation

Components

The following components are required to configure the overall system:

Hardware

- Delta Workstation for Trendsetter
- Delta Tower IS for Trendsetter
- Creo Trendsetter Spectrum 3230 or 3244

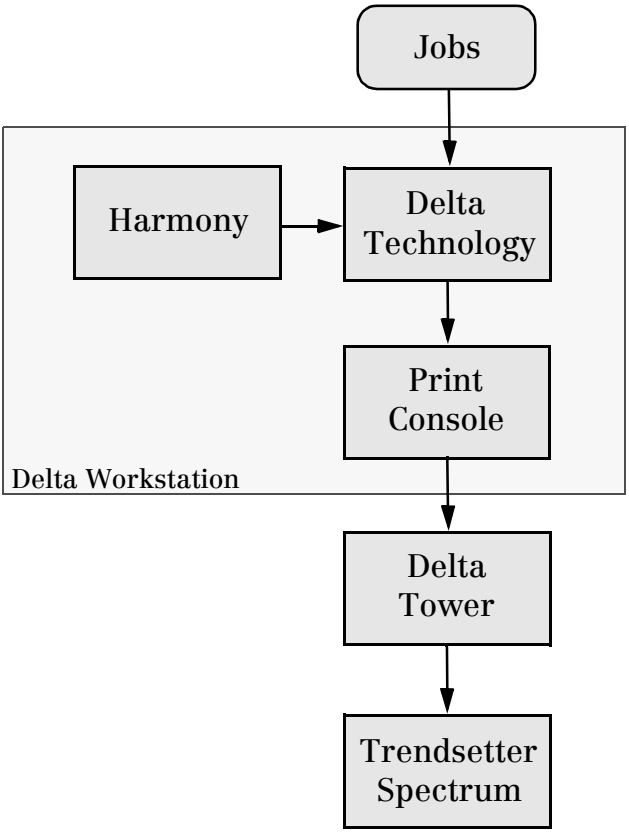
Software

- WindowsNT Server 4.0 with ServicePack 4
- Delta Technology 6.0. or higher;
  Dongle release for *6.0 Base* and *RecoClass Platesetter*
- Creo Print Console 1.0. or higher
- Creo Harmony 1.1 or higher

Data flow

The *Data flow* graphic gives a simplified representation of the data flow between the individual components in the overall system.

Data flow



Physically the Print Console and Harmony software runs on the same computer (Delta Workstation) as Delta Technology. The Harmony software communicates with Delta

Technology and obtains the machine-dependent parameter settings via it. The Print Console communicates with the Trendsetter Spectrum and Delta Workstation. The job data runs from Delta Technology via the Delta Tower to the output device for exposure.

Print Console

Print Console is a software for controlling output devices. In the configuration with Delta Technology, Delta Tech deals with most of the tasks such as the handling of jobs in queues. Only a small section of Print Console functions is required to use the Trendsetter Spectrum with Delta Technology. The Print Console user interface is configured in such a way that after starting only this section of functions is available and can be visualized by the user.

In this configuration, the main tasks of Print Console are color and material settings as well as the displaying of status and error messages.

Harmony

The Harmony software is used to create calibration curves from target and current curves and to manage them in databases. Harmony is called up out of Delta Tech to create calibration curves or to make existing curves available. In the Delta Print Manager the Harmony databases are allocated to the queues and taken into account on processing jobs.

Installation and Start

General

The hardware is set up and the software installed by Heidelberger Druckmaschinen AG personnel.

The corresponding dongle releases are required to operate Delta Technology in this configuration. If they are not available, the following section describes how to procure the extensions and to do the release.

Print Console does not require a separate dongle release. After being installed, Print Console starts automatically when the Delta workstation is booted. After a successful start the Print Console icon appears on the taskbar. Click the icon to open the Print Console main window. Print Console is quit when the Delta software is shut down.

The Harmony software is installed on the Delta workstation via the *Integrated installation to Delta RIP* option. This setting ensures that Delta Technology can manage and process the Harmony data. The integrated installation ensures that Harmony is only started from Delta Tech. Harmony thus starts in a device-dependent state and automatically recognizes device-specific parameters. The Harmony software is called up upon configuration of the queues in the *Output Control* window in the *Calibration* tab (refer to page 4–10).

Dongle release for 6.0 Base and RecoClass Platesetter

If you have not yet purchased an extension for your Delta Technology system, you can do so by means of the Option order sheet. You will find this form on the Delta workstation under the entry *Option Ordersheet* in the *Delta Technology* start menu.

The dongle release is performed as follows:

1. Select the *Set Dongle Options* function in the *Delta Technology* menu.
2. Select the *6.0Base, RecoClass Platesetter* entry or other necessary options in the *Option* pop-up menu.
3. Enable the *set 'on' (release)* function and enter the release number in the *Key code* field.
4. Click in *Set*.
5. Restart the Delta Technology system.

Terms on the Print Console user interface

This section deals with important terms used on the Print Console user interface.

Device media

Device (recorder) media are the media for the exposure process in the output device. A Trendsetter Spectrum can expose the media plate, film and screen proof material, for example.

The device media are configured on the output device by Heidelberger Druckmaschinen AG personnel. The device media are managed in a table at the Trendsetter Spectrum. In this table, a data record with parameters (e.g. manufacturer, medium type, colors, default exposure) is allocated to each device medium.

On starting the Print Console some of this data is read out at the Trendsetter Spectrum and transferred to the Print Console. In the Print Console *Configure Device Media* dialog box, all recorder media configured at the output device are listed with parameters (section Configure Device Media dialog box, page 2–13).

When proofing, these parameters also include the color separations (recorder colors, also refer to page 2–3), which are exposed in a pre-defined sequence at the output device. The pre-defined colors and the sequence of their exposure are also displayed in the *Configure Device Media* dialog box.

Device (recorder) media are used to configure *output media, proof color mappings* and *print settings*. Several output media can exist on the basis of a device medium.

Output media

The definition of output media is based on device (recorder) media. Output media are media of the type of a recorder medium. Contrary to recorder media, the size and orientation of output media are defined in the imagesetter (section Configure Output Medium dialog box, page 2–16). Output media can only be created when at least one recorder medium has been defined beforehand.

The names of the output media tell the Print Console which output medium has to be loaded in the output device.

Print Setups

A print setup is a set of output parameters which control the exposure. These parameters include the output medium, color separations, RIP name, etc. Print settings are defined in the *Configure PrintSetup* dialog box (section Configure Print Setup dialog box, page 2–21).

The print settings are interfaces between the Print Console and Delta Technology and are visible to the user. The names of the print settings are made available at the following three points in Delta Tech:

- NT Utility in the *Imagesetter* > *Material Control* menu: The print settings are displayed here. One of them is set to *Active* as a preference (section NT Utility, page 4–6).
- Delta Print Manager in the *Warteschlange (Queue)* > *Anlegen (Create) (settings)* menu: When carrying out the OPC configuration, the print settings are selected in the *Selection* box under *Material*. This selection overwrites the

preference in NT Utility (section Delta Print Manager, page 4–7).

- *Default.qry* file: This query file is created by Delta Technology for the Signastation imposition station. It is used so that the desired output material can already be selected at the Signastation.

Proof color table

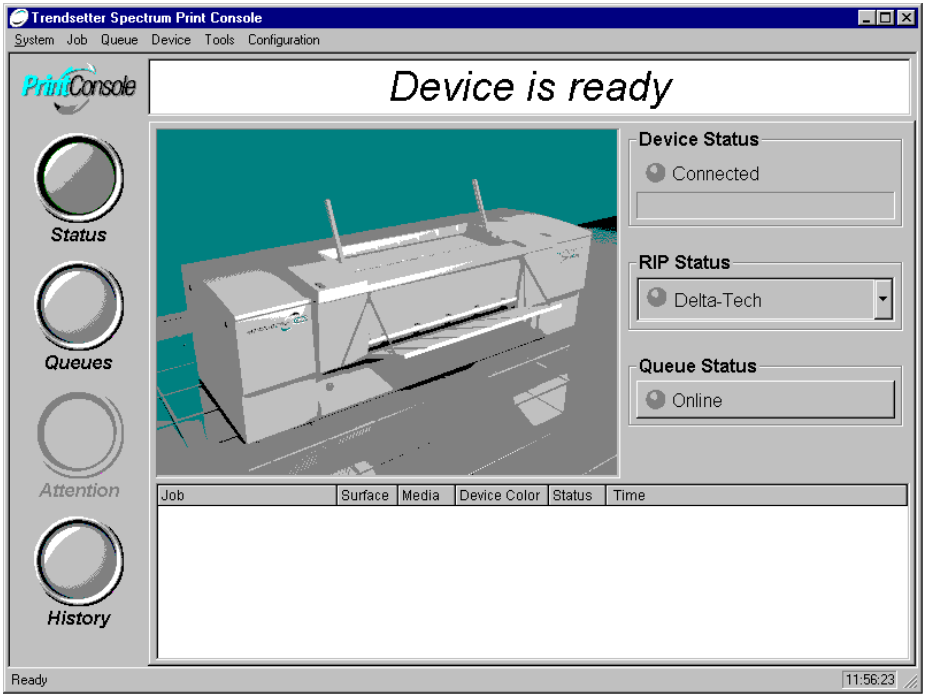
The proof color table is only required for creating screen proofs.

The proof color table is defined in the *Configure Proof Color Mappings* dialog box (*Configuration* > *Proof Color Table* menu). In this table allocations of RIP colors to device (recorder) colors are defined. Allocations defined here are then available in the *Separation Setup* tab when configuring the print setup.

The RIP colors are the colors which the RIP software (in this case Delta Technology) extracts during the ripping process. Recorder colors are the colors defined at the output device for the recorder medium (section Device media, page 2–1). Only the names of the recorder colors can be used to control the output device. The names of the RIP colors must therefore be allocated to the names of the recorder colors. The names of the RIP colors listed in the proof color table must correspond exactly to the RIP color names which actually exist. If RIP color names exist which have not been defined in the proof color table and configured in the print setup, then the job is aborted in the Delta Print Manager with a corresponding error message.

Print Console main window components

After being started, the *Trendsetter Spectrum Print Console* main window appears.



Four different windows *(Status, Queues, Attention, History)* can be displayed within the main window. They are selected by clicking the respective button on the left, vertical bar. This bar is always available to toggle between the windows. To access another window, click the corresponding button.

The button for the active window is green and the buttons for the inactive windows are blue. The third button *(Attention)* is usually gray. If the Print

Console has important information for you, the button changes to red and flashes. Click the button to display the *Attention* window.

Status window

The *Status* window is displayed after starting the Print Console. Information about the job which has just been processed is output here. The output device to which the Print Console is connected is displayed on the header line. The text below the menu bar describes the process status. The picture shows the image allocation process in the output device.

Three statuses are displayed on the right-hand side of the window:

- Device Status: The device status indicates whether an output device is connected.
- RIP Status: The RIP status indicates the name of the RIP to which the Print Console is connected and which is currently processing the latest job. The selection list contains the names of all RIPs registered in the Print Console. Only *Delta Tech* is normally shown in the configuration described here.
- Queue Status: The Queue Status button lets you toggle the active queue between *offline* and *online*.
  If the Print Console is *online*, existing jobs are processed by the Print Console, i.e are sent for exposure. If the Print Console is *offline* , no jobs are processed. There is only one queue in the Print Console in the configuration described here.

Below the picture there is a status bar with the following entries:

- Job: Information about the job which has just been processed is displayed here. The information is displayed at the three levels *Job name*, *File name* and *Color separation name*. The individual levels are shown or hidden by clicking the right-hand arrows.
  The job name is a combination of the file name and the input queue.
- Surface: Specification of the surface, e.g. surface a or b.
- Media: The output medium selected for this job is displayed here. If an output medium has not been specified, then the preset device (recorder) medium appears.
- Device Color: Device colors are only output for screen proofing. The displayed device colors are defined for the respective output medium and can be displayed in the *Configure PrintSetup* dialog box.
- Status: The status display shows the current job processing status.
- Time: Three different pieces of time information are displayed for the *Job*, *File* and *Color separation* levels. The time specified for the *Job* is the time taken thus far to process the jobs. The time specified on the *File* level is the time RIP requires to read the file. With reference to the color separation, it is the time RIP requires to extract the color separations.

Queues window

The *Queues* window contains two tabs, *Pending* and *Processed*.

Pending tab

The *Pending* tab indicates all the jobs waiting for the ripping and exposure processes. As the Delta Print Manager takes over the queue administration for the Trendsetter Spectrum, only one job appears on the *Pending* tab, which is then forwarded immediately for processing. This tab therefore does not usually contain jobs.

The *Pending* tab contains a status bar with the following entries:

- Job, Surface, Media, Device Color: See section Status window, page 2–5.
- Priority: Displays the priority of the jobs. With Delta Technology, the Print Console only processes one job at a time so that the priority is of no significance. In this case the priority should be set on *Medium* (refer to page 3–3).

The *Pending* tab can also contain the following radio buttons at the bottom edge:

- Aluminium Plate: If *Al Plate* is selected, all exposure jobs for aluminium plates are displayed. If *Al Plate* is not selected, no exposure jobs for aluminium plates are displayed.
- Polyester plate: If *Poly Plate* is selected, all exposure jobs for polyester plates are displayed. If *Poly Plate* is not selected, no exposure jobs for polyester plates are displayed.
- Halftone Proof: If *Halftone Proof* is selected, all exposure jobs for screen proof material are

displayed. If *Halftone Proof* is not selected, no exposure jobs for screen proof material are displayed.

- Flexo Plate: If *Flexo Plate* is selected, all exposure jobs for flexoplates are displayed. If *Flexo Plate* is not selected, no exposure jobs for flexoplates are displayed.
- Blueline: If *Blueline* is selected, all exposure jobs for blueline are displayed. If *Blueline* is not selected, no exposure jobs for blueline are displayed.
- Film: If *Film* is selected, all exposure jobs for film material are displayed. If *Film* is not selected, no exposure jobs for film material are displayed.

Processed tab

The *Processed* tab shows all jobs which have been processed. One can take a look at the job characteristics with status and error messages. The *Processed* tab is only for informational purposes, changes cannot be made.

The *Processed* tab contains a status bar with the following entries:

- Job, Surface, Media, Device Color, Status: See section Status window, page 2–5.
- Time: Display of the time required to process the job.

The *Processed* tab also contains the following radio buttons at the bottom edge:

- Successful: If *Successful* is selected, only successfully processed jobs are displayed. If *Successful* is not selected, then all successfully processed jobs are not displayed.
- Unsuccessful: If *Unsuccessful* is selected, only unsuccessfully processed jobs are displayed. If *Unsuccessful* is not selected, then all unsuccessfully processed jobs are not displayed.
- Aborted: If *Cancelled* is selected, all jobs are displayed for which job processing in the Print Console was aborted. If *Cancelled* is not selected, then all jobs are not displayed for which job processing in the Print Console was aborted.

Attention window

The third button *(Attention)* on the left-hand selection bar is usually gray. If the Print Console has important information for you, the button changes to red and flashes. Click the button to display the *Attention* window.

The *Attention* window is always displayed when you have to intervene. This is the case, for example, when the Print Console receives the request from the output device to insert or remove a plate. The *Attention* window also reports system standstill due to a fault in the output device. All operations are then stopped until the fault has been eliminated.

The information in the *Attention* window indicates the type of problem and contains suggestions on how to solve the problem.

The following actions run after a system standstill:

- The operation through which the fault occurred is stopped.
- The fault lamp on the output device lights up.
- A message appears in the *History* window.
- The *Attention* window is displayed before any of the others on the Print Console. The *Attention* button turns red and flashes until the *Attention* window is clicked. It is possible to look at other windows in between and to return to the *Attention* window.

The suggested actions for solving the problem can vary depending on which error occurred and which output device is in operation.

Depending on the action to be taken, the following buttons appear in the *Attention* window:

- Abort: The current operation and then the processing of the whole job is cancelled.
- Resume: Click this button to resume an operation or to try and repeat it. Normally, you click this button when the problem has been solved and you wish to continue.

History window

Print Console system messages are displayed chronologically in the *History* window. Some of these messages are only informational and do not require any inputs.

The *Clear* button at the end of the window can be used to delete the messages from the *History* window. This also removes all current messages and cannot be reversed. The *History* window then fills up again with new messages.

The following types of messages exist:

- Information: This comprises normal Print Console operation messages. They signal, e.g. that a job is standing in a queue or that an exposure has been started.
- Error: If an error occurs in the output device, the Print Console is normally stopped until the error has been eliminated and the *Attention* window appears.
- Warnings: Warnings indicate conditions in the Print Console which could lead to problems during job processing. Although the system can continue to operate, these messages should be investigated as soon as possible.
- Debugging: These messages inform you that debugging has been carried out and that you can resume job processing.

Menu bar in the Print Console main window

This section describes the Print Console menus. Only a small section of the Print Console functions are required to use the Print Console together with Delta Technology.

These functions are described in the following section. They are the functions of the *System, Device* and *Configuration* menus.

System menu

About Print Console

The Print Console version is displayed in the *About Print Console* window.

Exit

This function is ineffective in conjunction with Delta Technology. The Print Console is quit when the Delta workstation is shut down.

Device menu

Query

This command is used to query the machine data for the imagesetter. Delta Technology recognizes parameter changes via the interface to the Print Console.

Reinitialise

This command is used to reinitialise and start the output device.

Load Carrier

This function is only displayed if you have selected a screen proof medium as the output medium. The carrier is mounted on the drum and takes up the films for exposure. The format of the carrier is automatically derived from the proof format.

If there is to be a material changeover, the Print Console automatically gives the request to load or remove the carrier.

Unload carrier

This function is only displayed if you have selected a screen proof medium as the output medium.

The carrier is only needed for proofing. If a plate exposure is to be carried out after the proofing, then the carrier must be removed from the recorder.

If there is to be a material changeover, the Print Console automatically gives the request to load or remove the carrier.

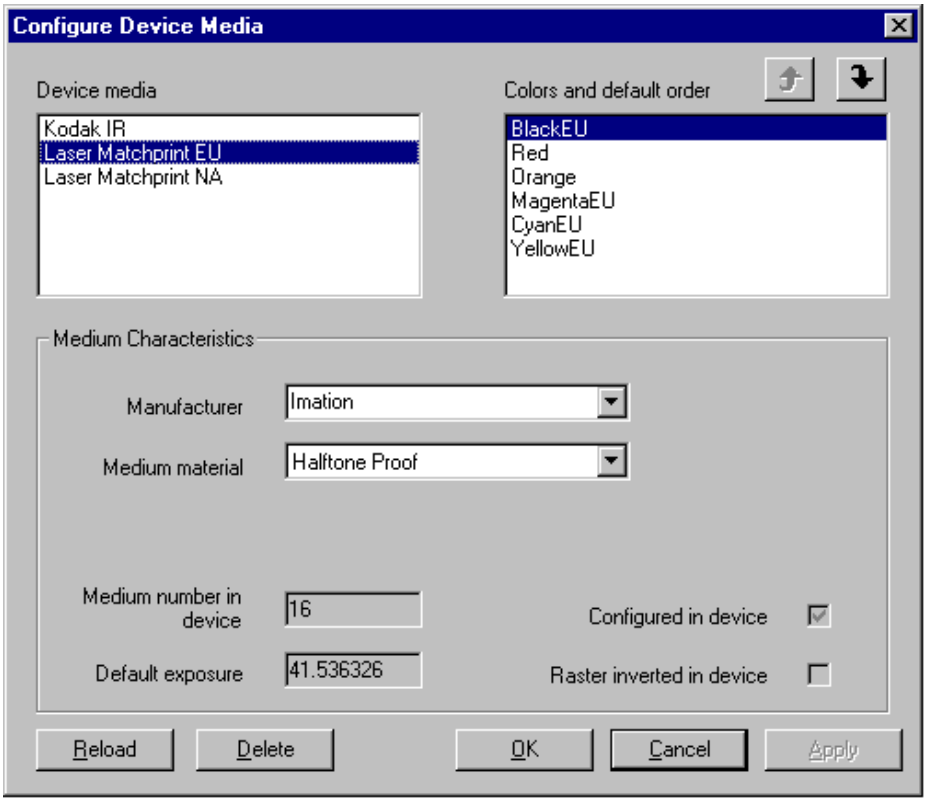
Note: If the recorder is not used for a longer period, the carrier should be unloaded manually via this function.

Configuration menu

All Print Console system configurations are carried out via the *Configuration* menu.

Configure Device Media dialog box

The *Configure Device Media* dialog box is called up in the *Configuration* > *Device Media* menu.



Some of the device (recorder) media defined at the output device can be reconfigured in this dialog box. All device media configured at the output device are displayed with their parameters. Some of these parameters can be changed in the dialog box, others are only displayed.

The dialog box contains the following fields:

- Device media: All device media configured at the output device are displayed in this field. The configuration of device (recorder) media at the output device is carried out by Heidelberger

Druckmaschinen AG personnel and cannot be changed by the user. If the configuration is modified afterwards and a device medium deleted at the output device, for example, the entry in the *Device media* field is not automatically deleted as well. This must be corrected manually. The *Configured in device* option indicates whether the device (recorder) medium still exists in the configuration of the output device. If this is not the case, please delete the corresponding entry in the *Device media* field.

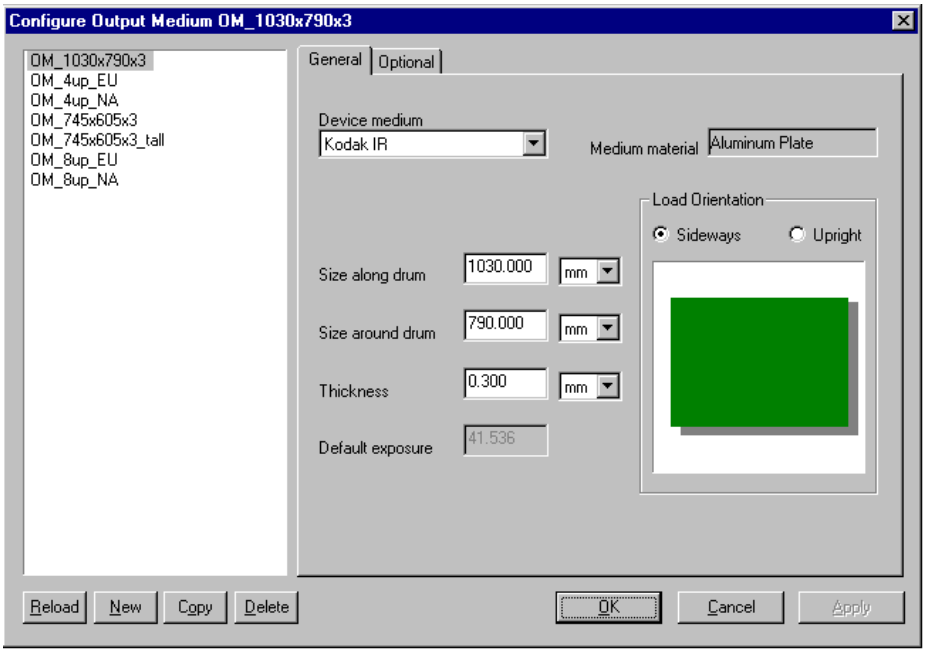
- Color and default order: Entries only appear in this field if your device medium is a screen proof medium. In this case, all available colors and the default order for exposure are displayed here for the selected device medium. The list contains all colors that have ever been configured at the output device. If colors are subsequently deleted at the output device, the corresponding entries in the *Color and default order* field are not automatically deleted as well. This must be corrected manually.
  The down and up arrows can be used to change the default order of the colors. By clicking the up arrow the marked color moves up and by clicking the down arrow it moves down.

In the *Medium Characteristics* area entries can only be made in two fields, *Manufacturer* and *Medium material*. The other four fields *Medium number in device, Default exposure, Configured in device* and *Raster inverted in device* are for displaying information.

- Manufacturer: In this selection list you can select a different manufacturer for the selected device medium. The entry can also be made manually.
- Medium material: In this selection list you can select a different material for the selected device medium. The entry can also be made manually.
- Medium number in device: The device media are set up in a table at the output device with their output parameters (section Device media, page 2–1). The *Medium number* field indicates the number of the entry in this table.
- Default exposure: This field indicates the exposure value preset at the output device for the selected device medium.
- Configured in device: This option indicates whether the selected device medium is configured in the output device. If the tick appears, then this is the case. If the option is not set, then the device medium is not set up in the output device. Then this device medium cannot be used and you have to delete the corresponding entry manually in the *Device media* field.
- Raster inverted in device: This option indicates whether the exposure for the selected device medium will be negative or positive.
- Buttons: A description of the buttons can be found in the section Buttons, page 2–29.

Configure Output Medium dialog box

The *Configure Output Medium* dialog box is called up in the *Configuration* > *Output Medium* menu.



Output media are configured in this dialog box. The definition of an output medium is effected by selecting a device medium to which parameters such as material size and load orientation are allocated (section Output media, page 2–2).

A list of all configured output media is located on the left of the dialog box. The respective selected output medium appears on the title bar in the dialog box.

The dialog box contains two tabs, *General* and *Optional*. On changing the tab the list with the output media is still displayed.

Note: If an output medium does not exist, then all entry boxes are gray and no entries can be made.

General tab

- Device medium: The device medium is selected from this selection list. The configuration of the output medium is based on the selected device medium.
- Medium material: The type of material for the selected device medium is displayed in this field.
- Device Proof Format: This selection list only appears if you have selected a screen proof material as device medium.
  Select the size of the proof in the selection list , e.g. Four-Up or Eight-Up.
  Device proof formats are set up on the output device by Heidelberger Druckmaschinen AG personnel and cannot be changed.

Note: When using the Signastation for the imposition process, bear in mind that the proof materials are exposed with a smaller area than plate materials. If the same job is specified for the exposure of proof and plate materials, then an imposition scheme must be created for the proof material format.

The load orientation for Four-Up formats for proof and plate materials is vertical. This means that the Delta lists must be rotated by 90 degrees for Four-Up formats.

- Size along drum: The dimension of the output medium along the drum axis is specified here. This can be the length or width of the medium depending on with which orientation it is inserted. If, for example, a 1030*790 mm plate is inserted sideways, then the material height is 1030 mm.
  Decimal points can be used when entering the

size. In the selection list on the right you can choose between the measuring units *mm* or *inches*. The selected measuring unit is then used for all further dialog box entries for the selected output medium.
If you change the size specification for your output material, the Print Console automatically updates all other entries in the dialog box.

Note: If you have selected screen proof material as the device medium, then this field only acts as a display and changes cannot be made. The format is then set via the *Device Proof Format* field.

- Size around drum: The size of the output medium around the drum is specified here. This can be the length or width of the medium depending on with which orientation it is inserted. If, for example, a 745*605 mm plate is inserted upright, then the material width is 745 mm.
  Decimal points can be used when entering the size. In the selection list on the right you can choose between the measuring units *mm* or *inches*. The selected measuring unit is then used for all further dialog box entries for the selected output medium.
  If you change the size specification for your output material, the Print Console automatically updates all other entries in the dialog box.

Note: If you have selected rasterproof material as the output medium, then this field only acts as a display and changes cannot be made. The format is then set via the *Device Proof Format* field.

- Thickness: The material thickness of the selected output medium is entered here. Decimal points can be used when entering the thickness. In the selection list on the right you can choose between the measuring units *mm* or *inches*. The selected measuring unit is then used for all further dialog box entries for the selected output medium.
  The input of the material thickness for screen proof material specifies the material thickness of the receptor.
- Default exposure: This field displays the exposure value preset on the output device.
- Load Orientation: There are two selection possibilities for the load orientation, *Sideways* and *Upright*. The graphic in the dialog box shows the load orientation for both possibilities. On changing the orientation, the entries in the *Size along drum* and *Size around drum* fields automatically change.



Note: If you have selected screen proof material as the device medium, then this field only acts as a display and changes cannot be made. The format is then set via the *Device Proof Format* field.

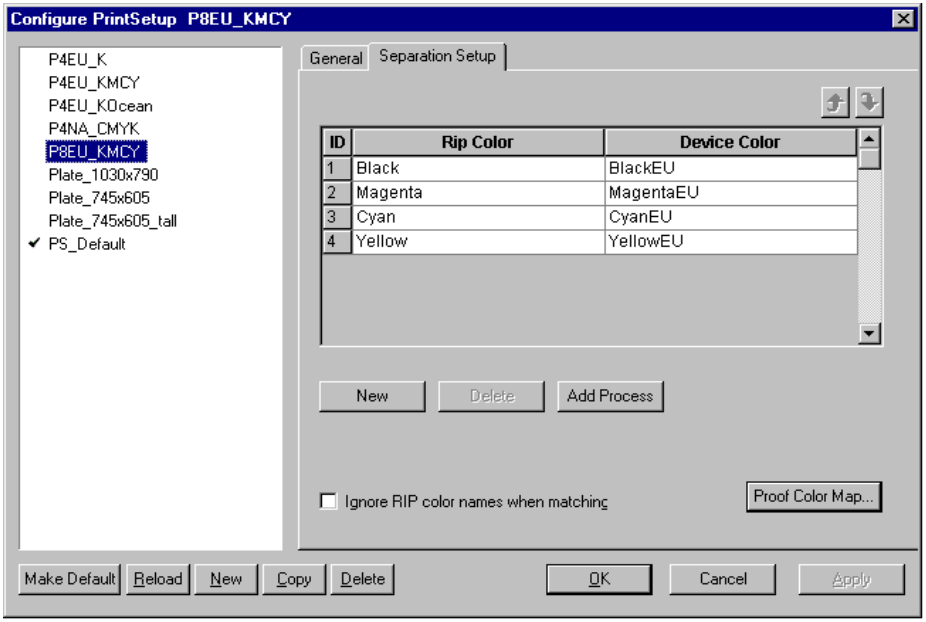
- Buttons: A description of the buttons can be found in the section Buttons, page 2–29.

Optional tab

No entries are required here to operate the Print Console and Delta Technology together.

Configure Print Setup dialog box

The *Configure Print Setup* dialog box is called up in the *Configuration* > *Print Setup* menu.



In this dialog box print settings are created or changed and saved under a name (section Print Setups, page 2–2).

A list of all configured print settings is located on the left of the dialog box. The respective selected print setups appears on the title bar in the dialog box.

The dialog box contains the *General* and *Separation Setup* tabs. On changing the tab the list with the print settings is still displayed.

If no print settings exist, then all entry boxes are gray and no entries can be made. First of all you must then define a new print setup by means of the *New* button.

General tab

In the *Output medium* section the output medium for the print setup is defined in the following fields:

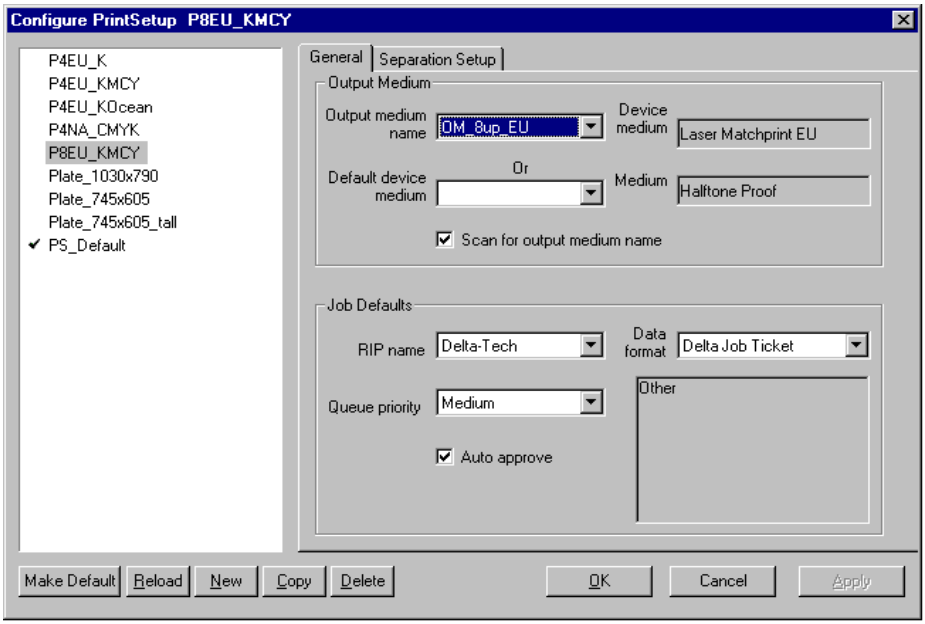
- Output medium: Select an output medium in this selection list.
- Device medium: The device medium on which the definition of the selected output medium is based is displayed in this field.
- Default device medium: The default device medium is defined here. The default device medium is only selected to configure the default print setup. The *Scan for output medium name* option must be enabled. Setting the option ensures that a search is carried out for an output medium for the processed file.
  This preference becomes effective when no output medium has been defined for a job.
- *Scan for output medium name*: If this option is enabled, the incoming files are scanned for an output medium. This option must be enabled for defining the default device medium.

The *Job Defaults* section contains the following fields:

- Rip name: The selection list contains all RIPs set up for the Print Console.

- Queue priority: With Delta Technology, the Print Console only handles one job at a time so that the priority is of no significance.
- Data format: Selection of data formats.
- Auto approve: If this option is enabled, the job is automatically sent for exposure without queries regarding the color separations being made.
- Buttons: Before the first exposure, a print setup must be enabled as the default print setup. To do so, select the desired print setup and then click the *Make Default* button. Select the corresponding device medium in the *Default device medium* field. The default print setup appears in the list on the left and has a tick. A description of the other buttons can be found in the section Buttons, page 2–29.

Separation Setup tab



The color mappings and orders are specified here. The color mappings which can be selected here are based on the proof color table which is set up in the *Configure Proof Color Mappings* dialog box. The color mapping defines which RIP colors are allocated to the device colors. If RIP colors exist whose allocation has not been defined in the print setup, then the job is aborted in the Delta Print Manager with a corresponding error message.

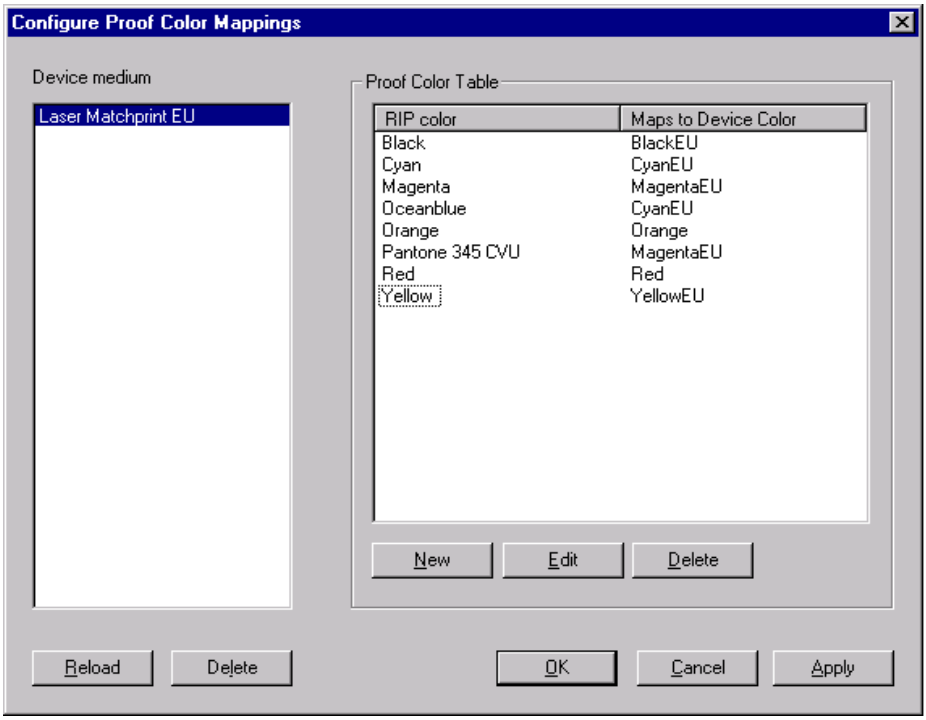
The color order specifies in which order the color separations are exposed on the imagesetter.

Note: The color order defined in the print setup must match the order of the color films in the imagesetter. Each device color may only be allocated once to a RIP color.

- ID: Each color separation is identified via an ID No. which cannot be changed.
- RIP Color: All RIP colors defined in the color separation table are listed here. The right-hand column shows to which device colors the RIP colors were allocated for screen proofing.
- Device Color: Device colors are only displayed if a screen proof medium has been selected as the output medium.
  The device colors are the colors set up at the output device for the selected device medium. The order of the colors specifies in which order the color separations are exposed.
  Define the color order KMCY for the European *EURO* color standard and the color order CMYK for the American *SWOP* color standard.
- Up and down arrows: The up and down arrows above the table are used to change the order of the colors. To do so, select a color, click an arrow and position the color in the desired place. You can also change the order by using the mouse key to drag and drop.
- Ignore RIP color names when matching: The Print Console usually gives a warning in the *Attention* window if the RIP software extracts RIP colors which are not allocated to a device color in the print setup. If this option is set, no warning is given when there are unknown RIP colors.
- Buttons: Click the *Add Process* button to show the entries defined in the proof color table in this table.
  A description of the other buttons can be found in the section Buttons, page 2–29.

Configure Proof Color Mappings dialog box

The *Configure Proof Color Mappings* dialog box is called up in the *Configuration > Proof Color Table* menu. A second possibility is to click the *Proof Color Map...* button in the *Configure PrintSetup* dialog box.



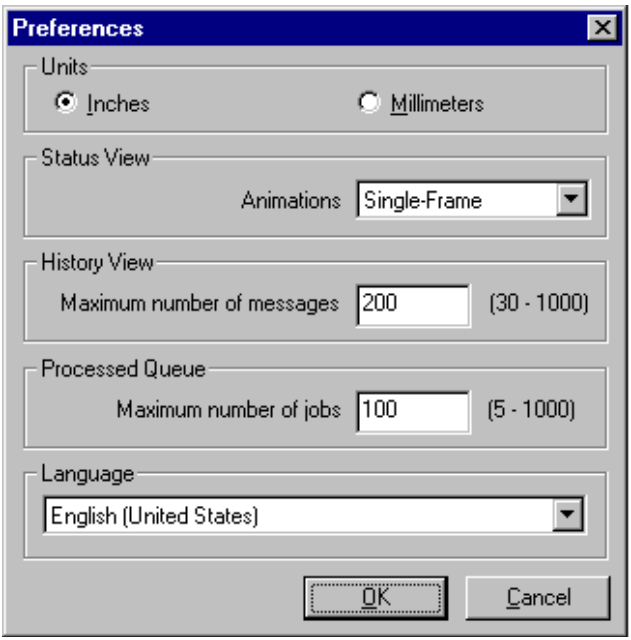
The proof color table is only required for creating screen proofs.

The dialog box contains the *Device medium* and *Proof Color Table* fields.

- Device medium: Select the device medium from this list. The list only contains device media for screen proofs.
- Proof Color Table: The Proof Color Table shows the color mappings for the selected device medium. The RIP colors are allocated to the device colors. The allocations defined in this table are available for selection when the color separation table is defined in the dialog box.
- Buttons: A description of the buttons can be found in the section Buttons, page 2–29.

Preferences dialog box

The *Preferences* dialog box is called up in the *Configuration* > *Preferences* menu.



The measuring units, animations, etc. are preset in this dialog box. The preferences are valid for all dialog boxes in the Print Console.

- Units: Choose between the measurement units *Inches* and *Millimeters*. This preference can be overwritten in the *Configure Output Medium* dialog box. Different measurement units can therefore exist for different output media.
- Status View: The animation mode for the *Status* window can be set in the *Animations* field. In *Off* mode animation is switched off and a graphic with the connected output device appears in the *Status* window. Only the first frame of the animation is shown in the *Single-Frame* mode. In *On* mode, the complete animation runs which shows the exposure on the output device.
- History View: In the *Maximum number of messages* field specify the maximum number of messages the *History* window is to contain.
- Processed Queue: In the *Maximum number of jobs* field specify the maximum number of processed jobs the *Queues* window / *Processed* tab is to contain.
- Language: Here you can choose between an English and German user interface for the Print Console.
- Buttons: A description of the buttons can be found in the section Buttons, page 2–29.

Buttons

Delete

The *Delete* button is used to delete the selected object. Click the *OK* or *Apply* button to apply the deletion. Click the *Cancel* button to undo the deletion.

OK

Click the *OK* button to apply all changes made in the dialog box and to close the dialog box.

Cancel

Click the *Cancel* button to revert all changes made in the dialog box and to close the dialog box.

Apply

Click the *Apply* button to apply all changes made in the dialog box without closing the dialog box. To close the dialog box, click the *OK* button.

Reload

Click the *Reload* button to load the configuration saved last. This is the configuration since you last clicked the *Apply* or *OK* button.

New

Click the *New* button to create a new entry.

Copy

Click the *Copy* button to copy the selected object. Save the copy under a different name.

Edit

Click the *Edit* button to edit the selected object.

Make Default

See section Configure Print Setup dialog box, page 2–21.

Add process

See section Configure Print Setup dialog box, page 2–21.

Configuration of the Print Console

All Print Console system configurations are carried out via the *Configuration* menu.

This section describes the individual configuration steps.

Configuring device media

1. Open the *Configure Device Media* dialog box in the *Configuration* > *Device Media* menu (section Configure Device Media dialog box, page 2–13). All contents in the fields of the dialog box have been defined in the output device. Some settings can be changed in this dialog box.
2. Select the device medium you wish to configure in the *Device media* list. The media contained in this list are defined in the output device if a tick appears in the *Configured in device* options field. If the tick does not appear, then you should delete the selected entry in the list as the device medium no longer exists in this output device.
3. Check or change the color order in the *Colors and default order* window. You can adapt the order of the colors by clicking on the up and down arrows.
4. Make any necessary changes in the *Medium Characteristics* field. You can enter a different manufacturer for the selected device medium in the *Manufacturer* field and a different material type in the *Medium material* field.
5. Apply the settings by means of the *OK* or *Apply* button. Close the dialog box.

Configuring output media

1. Open the *Configure Output Medium* dialog box in the *Configuration* > *Output Medium* menu. First of all you see the *General* tab. All prevously defined output media appear in the list on the left (section Configure Output Medium dialog box, page 2–16).
2. Click the *New* button to define a new output medium. The *Enter output medium name* window appears. Enter a name for the output medium in the upper field. Select a device medium in the selection list below on which the definition of the output medium is to be based. Confirm with *OK*. The new output medium which is created appears in the list on the left.
3. You can select a different device medium for the output medium selected in the list on the left in the *Device medium* field. The corresponding material type appears in the *Medium material* field on the right.
4. Enter the dimensions of your output medium in the *Size along drum*, *Size around drum* and *Thickness* fields. The material height (size along drum) is the dimension parallel to the drum axis and the material width (size around drum) is the dimension around the drum.
5. Enter in the *Load Orientation* section whether the medium is inserted sideways or upright. The graphic below the selection buttons shows the load orientation for both possibilities. On changing the orientation, the entries in the *Size along drum* and *Size around drum* fields automatically change.
6. Apply the settings by means of the *OK* or *Apply* button. Close the dialog box.

Configuring the print setup

1. Open the *Configure Print Setup* dialog box in the *Configuration* > *Print Setups* menu. First of all you see the *General* tab. All previously defined output media appear in the list on the left (section Configure Print Setup dialog box, page 2–21).

General tab

1. Click the *New* button to define a new output medium. The *Enter name of print setup* window appears. Enter the name of the print setup here. Confirm with *OK*. The new print setup which is created appears in the list on the left.
   A print setup can also be created by highlighting an existing print setup, creating a copy of it with the *Copy* button and saving it under a new name.
2. To make a new print setup, proceed as follows:
   Highlight the new print setup in the list. Select the output medium in the *Output medium name* selection list. The corresponding device medium appears in the *Device medium* field on the right.
   Enter the following values in the *Job Defaults* section:
   RIP name field: *Delta-Tech*
   Dataformat field: *DeltaJobTicket*
   Queue priority field: *Medium*
   Activate the *Auto approve* option.
   Click the *Apply* button to apply the settings.
3. Before the first exposure, a print setup must be enabled as the default print setup. If a print setup cannot be allocated to a job, then the default print setup is used.
   To do so, highlight a print setup in the list. Select the *LaserMatchPrint* device proof medium in the *Default device medium* selection list and activate

the *Scan for output medium name* option.
Enter the following values in the *Job Defaults* section:
RIP name field: *Delta-Tech*
Dataformat field: *DeltaJobTicket*
Queue priority field: *Medium*
Activate the *Auto approve* option.
Click the *Make Default* button. The highlighted print setup now appears with a tick and is your default print setup.
Apply the settings via the *Apply* button.

Note: When setting up the default print setup, no color separations may be set in the *Separation Setup* tab.

Separation Setup tab

The settings in this tab are only relevant for the exposure of proof materials.

The table shows all allocations of RIP colors to device colors which are selected for a print setup. A print setup must be defined for every combination of allocations.

1. Highlight the print setup for which you wish to set up the color separations in the list on the left.
2. Click the *Add Process* button to display all device colors in the table. The device colors for a device medium are displayed and configured in the *Configure Device Media* dialog box (section Configure Device Media dialog box, page 2–13).
3. To set up further color mappings, click the *New* button and then the left mouse key.
A selection list appears in which all entries in the proof color table are listed. Select the color mappings you wish to add.

4. Click the up and down arrows to change the order of the colors.

The color order defined here must match the order of the color films in the imagesetter. Spot colors must always be positioned between the first and second color.

5. To delete an entry in the table, click *ID* and then the *Delete* button.
6. Click on the *Proof Color Map...*button to call up the *Configure Proof Color Table* dialog box (refer to page 3–5).

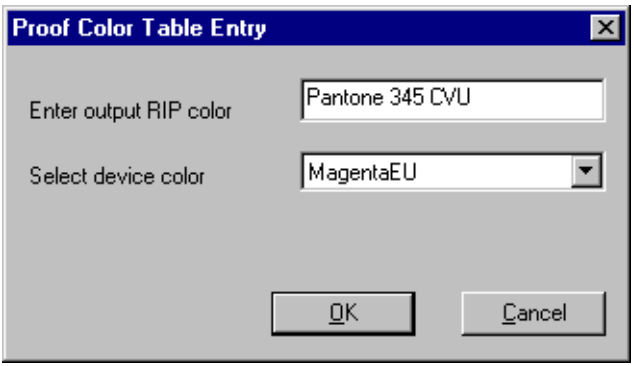
   The following error possibilities exist:

   - The job contains RIP colors which are not allocated to a device color in the allocation table for the print setup. The Delta Print Manager stops the processing of the job and gives an error message.
   - The same device color is assigned with two different RIP colors in the allocation table. The Delta Print Manager stops the processing of the job and gives an error message.
   - The job contains less RIP colors than defined in the allocation table for the print setup. Empty pages are created for the missing RIP colors if Delta is not operating in direct mode.

Configuring the proof color table

1. Open the *Configure Proof Color Table* dialog box in the *Configuration > Proof Color Table* menu. The proof color table entries are then available for creating the color separations in the print setup.

2. To make a new entry, highlight the corresponding device medium in the *Device medium* list on the left. Click the *New* button. The *Proof Color Table Entry* window appears.



   Enter the RIP color and select the device color to which the RIP color is to be allocated in the *Select device color* selection list. Confirm with *OK*.

3. To delete or edit entries, highlight and click *Delete* or *Edit*.

Delta Workstation

In this chapter it is assumed that you have a basic understanding of Delta Technology This includes knowledge of the Delta list concept, the Delta Print Manager (setting up queues, etc.) and NT Utility. Corresponding information is available in the *Delta Technology Application/Workflow* documentation.

With the Delta Print Manager, at least two queues are created, one for output on proof material and one for output on plate material. The queues are configured for the respective output medium. The material-specific definitions are made in the OPC header, where a print setup is selected for the proof / plate material. In addition to the material-specific settings, different Harmony curves are required for the proof / plate exposure process. The corresponding curves are allocated to the respective queue in the *Create Spool Queue* window in the *Calibration* tab.

The queues for the exposure of proof material are called proof queues, and for the exposure of plate material, plate queues.

The queues are linked to the internal RIP or an export directory.

Workflow

There are three different workflow variants, *Default Workflow*, *ROOM Workflow* and *Offline Workflow* for processing jobs at the Delta workstation.

Default Workflow

The jobs are printed and ripped in the proof queue for proofing. Delta lists are created and sent in the desired color order via the Delta Tower to the Trendsetter Spectrum for exposure. When using this workflow variant the proof queue is connected to the internal RIP.

Proofing is followed by the plate exposure process. The jobs are printed in the plate queue, ripped again and sent to the Trendsetter Spectrum for exposure.

The drawback of this workflow is the printing of the job in a queue and ripping being carried out twice.

ROOM Workflow

ROOM stands for ***Rip Once Output Many.***

As in the case of the Default workflow, the jobs are first printed in the proof queue and ripped. Delta lists are created and sent in the desired color order via the Delta Tower to the Trendsetter Spectrum for exposure. When using this workflow variant the proof queue is also connected to the internal RIP.

Contrary to the Default workflow, the completed Delta lists of the proof job are used for the plate exposure. The jobs therefore do not have to be printed in the plate queue again. Instead, the Delta lists are imported into the plate queue and a second rip process is dispensed with. The plate queue must be of the *Directory* type as otherwise it is not possible to import (section Creating queues, page 4–7).

To use the ROOM Workflow, the *Use OPC or Output Manager Defaults for Import Jobs* radio button must be set when configuring the plate queue. This ensures that the OPC settings for the plate queue overwrite the OPC settings for the old proof jobs. As the same job is used to control the exposure of the proof / plate material, at least the output material must be changed in the OPC setting. This option can only be set if the queue is of the *Directory* type.

The following processes are carried out during the import process into the plate queue:

- The print setup for the proof material is replaced with the print setup for the plate material.
- The Delta lists are mirrored.
- The Harmony curve for the proof material is replaced with the harmony curve for the plate material.

Note: As the Delta lists of the job are temporarily duplicated during the complete import process, attention must be paid that there is sufficient hard disk capacity.

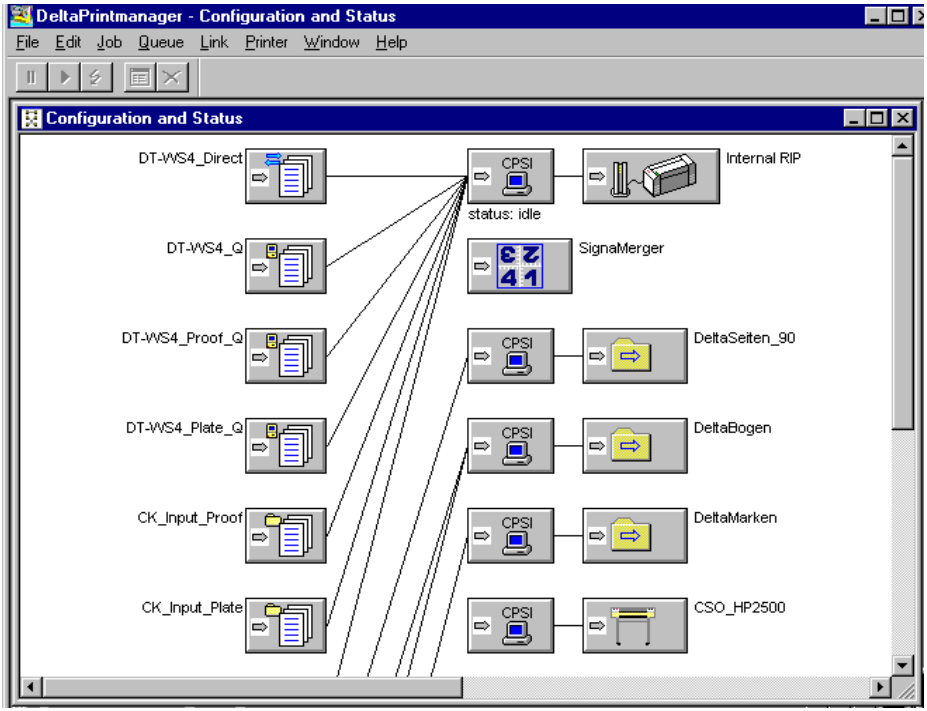
The advantage of the ROOM Workflow is that the job has to printed in a queue just once and only one ripping process is required.

Offline Workflow

An important characteristic of the Offline Workflow is the buffering of Delta lists in an export directory. The proof queue is connected to an export directory instead of to the internal Rip. This export directory is selected on setting up a

printer in the Print Manager. The export directory must be set up with the Trendsetter Spectrum profile file (*.ipr* file).

With this setting, the proof jobs are printed in the proof queue, ripped and Delta lists written in the export directory. The Delta lists can be further processed as desired at any time.



Configuration

This section describes the settings in the Delta Control, NT Utility and in the Print Manager on the Delta workstation.

The interface visible to the user between Delta Workstation and Print Console are the *print settings* which have been created with the Print Console. The print settings mainly comprise specifications concerning the output medium and color mappings.

The respective calibration for the exposure process is set on setting up the proof / plate queue.

Note: The calibration process should only be carried out by means of the Harmony calibration curves. They are created in the *Calibration* tab during the configuration of the queues (refer to page 4–10). Avoid calibrations at other points.

Delta Control

Select the *Preferences* function in the *File* menu. Click the *Imagesetter* tab in the *Preferences* window. The following three radio buttons are available in the Trendsetter Spectrum section:

Skip unknown separations option: If the job contains RIP colors which cannot be allocated to a device color in the print setup, then there is usually an error message in the Print Manager. If this option is set, an error is not output and the unknown color is simply left out.

Allow direct printing option: Normally the order of the color separations is automatically adapted to the order of the device colors defined in the print setup. If this option is set, there is no adaptation, i.e. exposure is effected in the order of the RIP

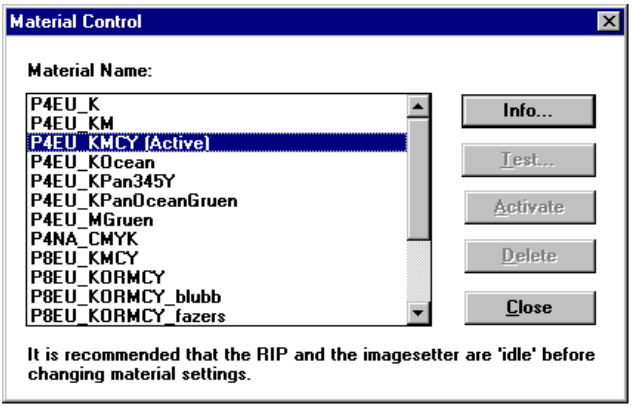
colors. The option should only be set in special cases when it is certain the orders of the RIP colors and device colors match. Such a case is, for example, the use of QuarkXPress 4.x with the color order in accordance with the SWOP Standard (CMYK). As QuarkXPress 4.x usually features the order CMYK, the option could be set in this case. This would save time.

Continue in spite of unsupported resolutions option: If this option is set, exposure is continued even though an unsupported resolution has been defined.

Note: All available resolutions can be set for a plate exposure. Only a resolution of 945l cm/ 2400 dpi can be used to create proofs.

NT Utility

1. First of all, select the *Query Printer* function in the *Miscellaneous* menu. The settings at the Trendsetter Spectrum are queried and saved in a file with the extension *.qry*. The machine data is used in the NT Utility and in the Delta Print Manager as a presetting for the configuration of the job processing sequence. The query file is also made available to the Signastation imposition station. It is used so that the desired output material can be selected at the Signastation. Furthermore, the *print settings* created by the Print Console are updated.
2. Select the *Material Control* function in the *Imagesetter* menu. The *Material Control* window appears.



The print settings, which you created earlier with the Print Console, are displayed here. You can enable a print feature via the *Activate* button. This is then used as the default print setup.

Delta Print Manager

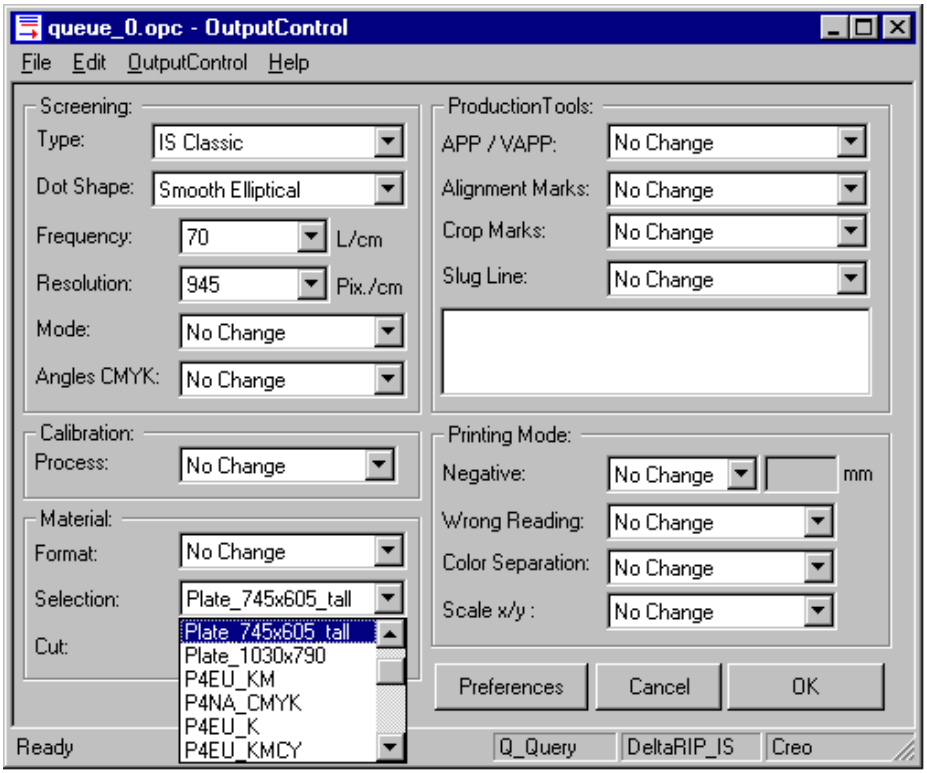
After starting the Print Manager the *Configuration and Status* window appears. Initially, at least two queues have to be created, one for output on proof material and one for output on plate material. An export directory has to be set up for work carried out in the Offline Workflow. This is followed by connecting the queues to the internal RIP (Default Workflow or ROOM Workflow) or the export directory (Offline Workflow). Exposure jobs are started by printing or importing the files into the queues (directories).

Creating queues

To create a queue, select the *Queue* > *Create* menu or, if the queue already exists, *Queue* > *Settings*.

General tab

1. Select the queue type in the *Type* selection list. If you set up a queue directory, select the desired directory in the window shown and enter the directory name in the *Name* field. Jobs or Delta lists can be imported or copied in queue directories. The Delta lists are not ripped once again in this instance.
   The plate queue must be of the *Directory* type for work carried out in the ROOM Workflow. Only then is it possible to import Delta lists and set the *Use OPC or Output Manager Defaults for Import jobs* option (step 4).
2. Leave the *Spool directory* field with the *D:\Delta\LHPS\SpoolDir* setting or refer to a spool directory on sufficiently sized hard disk.
3. Configure the OPC header. To do so, click the *OPC Header File* selection button and the *Edit* button. The *OutputControl* window appears.



Select the print setup created with the Print Console in the *Selection* field in the *Material* section.

Note: Selection of the print setup in the OPC header of the queue has priority over the NT Utility default print setup.

Make further settings if required.
Make sure to leave the setting in the *Process* field in the *Calibration* section on *No Change*.
Apply the OPC settings with *OK*.

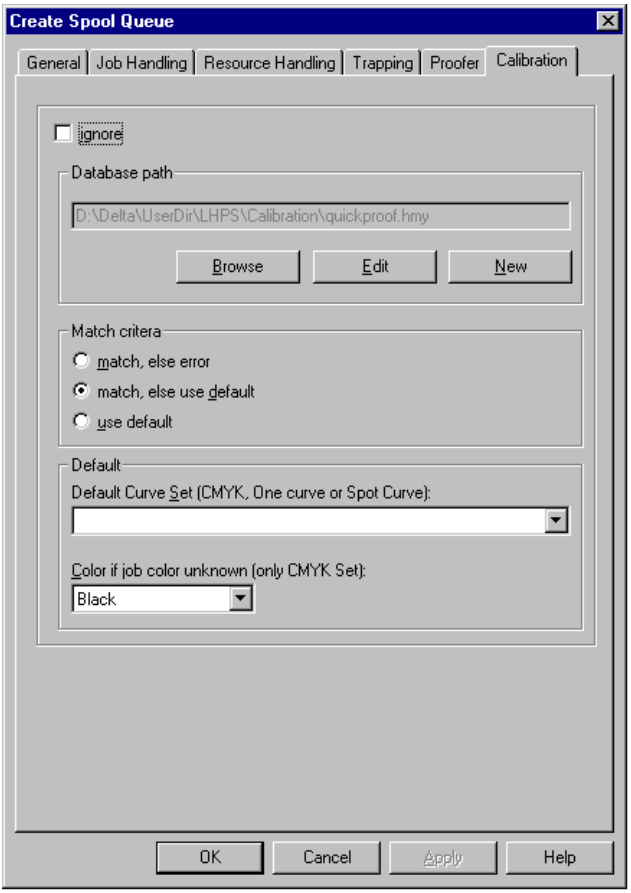
4. By setting the *Use OPC or Output Manager Defaults for Import Jobs* option, the current OPC settings for the jobs are overwritten by the OPC settings for the queue into which the job is imported. This option must be set during the configuration of plate queue directories in the ROOM Workflow so that the proof material is replaced with the plate material. For information on importing Delta lists, refer to section ROOM Workflow, page 4–2.

5. Apply the *General* tab settings with *OK*.

   Job Handling, *Resource Handling* and *Trapping* tabs: The configuration in these tabs is of no importance for the use of the Print Console. Make settings in accordance with your requirements.

   Proofer tab: The Proofer tab can be used to set whether you wish to create proofs on a special proof device with the Trendsetter Spectrum before exposure.

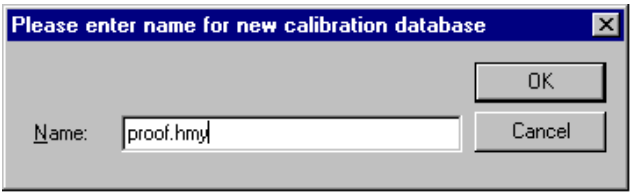
   Calibration tab: The Calibration tab only appears if Harmony software is installed on the Delta workstation. The Harmony software creates calibration curves from target and current curves which are managed in databases. A database contains at least one curve each for the proof and plate exposure processes. The concept is to allocate a database to a queue. If a job in this queue is processed, Delta Technology searches for the best calibration curve for this job out of the database. To do so, the curves in Harmony must be released.



The *ignore* option is activated when setting up a new queue. Calibration is then inactive and no calibration data from the Delta RIP is calculated into the document.

1. To enable the calibration function, remove the tick in the *ignore* check box.

2. On creating a new queue, the *Database path* field is empty as a database has not yet been allocated. At this point you can select an existing database and allocate it to the queue. To do so, click the *Browse* button and select this database.
   You can also use the Harmony software to modify an existing database. To do so, click the *Edit* button.
   The *New* button is for creating a new database.



   Enter a name for the new database in the *Please enter name for new calibration database* dialog box. The Harmony software is automatically started after entering the name.

3. Now use the Harmony software to create the calibration curves for the proof / plate exposure process. They are calculated from the target and current curves. The calibration curves must be released once they have been created.

4. When a job is processed, the Harmony database is scanned for a suitable calibration curve. The search is carried out according to the screen system, dot shape, frequency, resolution and color parameters contained in the job.
   The *match criteria* field is used to define how to proceed with the search.
   The *Match, else error* radio button is selected: If a suitable calibration curve cannot be found under those released, then the job processing is aborted with an error message.

The *match, else use default* radio button is selected: If a suitable calibration curve cannot be found under those released, then the default set is used which has been selected in the *Default* section. The default color is used if the default set does not contain the desired color.
The *use default* radio button is selected: In this case, the default set is always used. If a color is required for the job for which there is no calibration curve, then the default color is used for the color.

5. Select a default set for the calibration curves and a default color in the *Default* section.
6. Click the *OK* or *Apply* button to apply the settings.
7. Allocate the desired Harmony database to the proof and plate queues.

Setting up a printer

If you are working in the Offline Workflow, then you must set up an export directory.

1. Select the *Set up* > *Printer* menu. The *Set up Printer* window appears.
2. Select the type *Export directory* in the *Type* selection list. The *Export directory settings* window appears.
3. Select a directory as export directory in the *Export directory* field.
4. Click the selection button with the desired format in the *Export format* section.
5. Select the profile file (*.ipr* file) for the Trendsetter Spectrum in the selection list.

6. Set the two following options according to your requirements.
7. Apply the settings with the *OK* button.

Connection between the queue and the printer

Connect the created queues to the internal RIP or export directory in the *Configuration and status* window:

1. Click the queue icon keeping the mouse key depressed and drag the connection to the printer. Then release the mouse key again here.

Commence processing by printing, copying or importing the jobs into the queues (directories).

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