

Configuration Guide

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Document revision: 1.0
IAPS rel. compliancy: G50-20

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1 What is a Service, a Driver and a Driver Template?

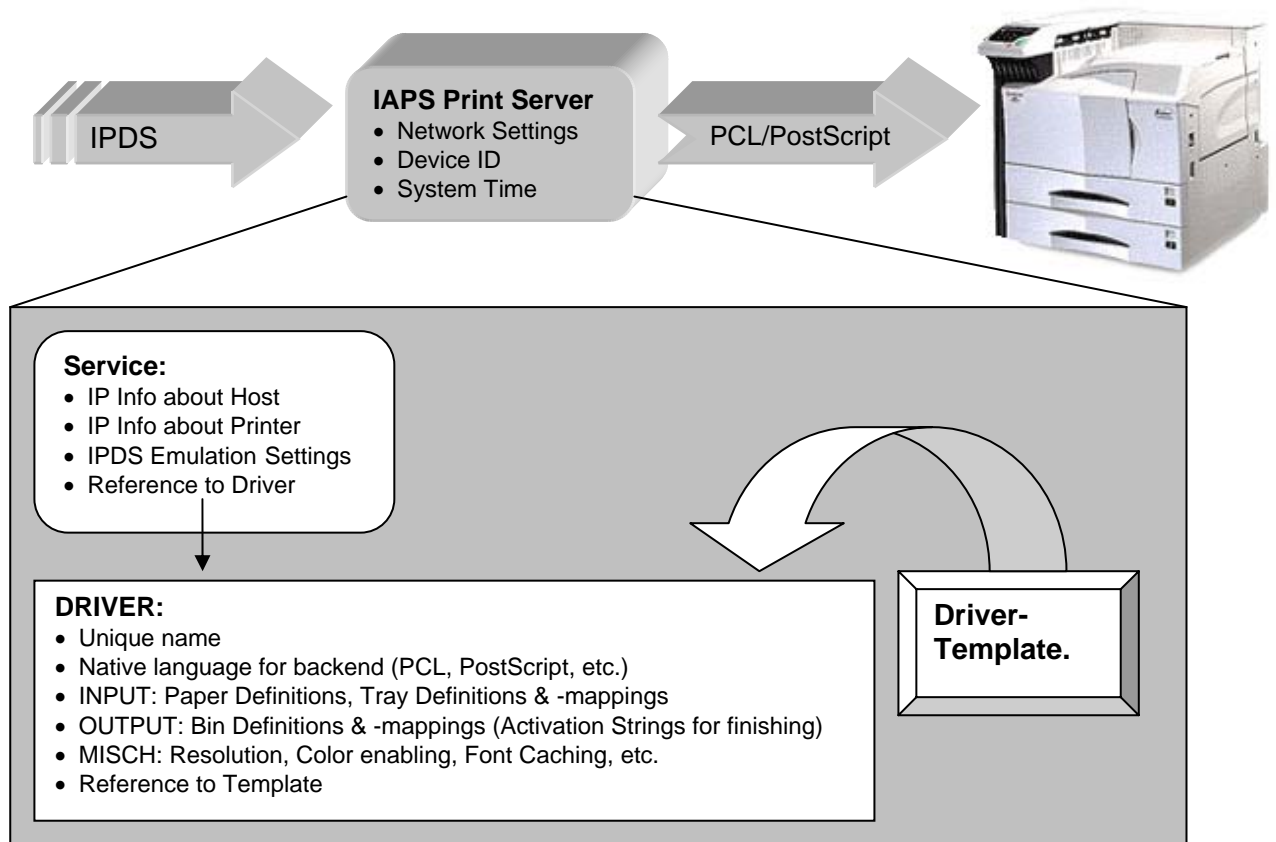


Figure 1 The Intermate Advanced Print Server (IAPS)

The Service holds information about the receiving port, the target printer’s host name and –port. It also holds information about the IPDS Emulation constraints. It provides reference to the target printer’s available features and installed options, by the attached driver.

The Driver holds information about the chosen printer language and its constraints, as well as information about the target printer emulation’s features and installed options.

The Driver Template is a predefined driver, a blueprint, which holds the same information as the driver. When creating a driver, the information from the selected Driver Template is copied into the created driver, thus protecting the Driver Template from being altered. During the Template’s lifetime, the drivers created from it, will hold a reference to the Template. When the template is deleted, the drivers’ reference is omitted, but they continue to exist.

To aid in creating Driver Templates & Drivers, a collection of **Driver Templates** are available.

Note: The Online help contains details that otherwise would be found in a Reference manual
 Press the button in order to read the Online information.

2 About the two user accounts.

2.1 The Administrator Account.

The Administrator account is aimed at people, who work with the printing environment.

This account enables you to change the service. It also enables you to create- and optimize drivers.

2.2 The Designer Account.

The designer account is aimed at printer manufacturers and others, who want to provide the IAPS with a set of preconfigured driver templates, reflecting the proposed usage of a given type of printer.

This account enables you with the same options as the administrator account. It also enables you to make driver templates. Further it enables you to customize the user interface. Please contact Intermate A/S for further information on this subject.

3 Where can I find more documentation?

Please refer to the on-line help for detailed information on each program parameter. You are welcome to use Intermate material as is, or as basis for your own documentation.

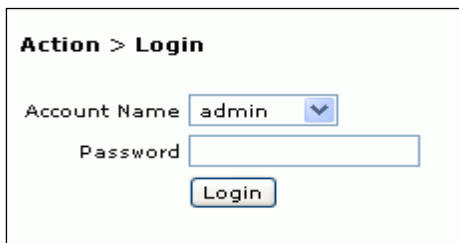
Please visit the Intermate Advanced Printer Server (IAPS) product support portal, which includes user guides, hand-outs, and questions-and-answers at <http://www.intermate.com/iaps>.

Please feel free to contact Intermate A/S by email: support@intermate.com for questions and advice. Your contract with Intermate may include assistance from us. We also provide consultancy services, please contact sales@intermate.com.

4 How do I log in?

Type the print server's IP address or DNS name in your browser's address window. For example: <http://192.168.11.231>. Then **log in**. The two accounts, to choose from the list-box are:

Figure 2 Login window



The screenshot shows a web browser window titled "Action > Login". It contains a form with two input fields and a button. The first field is labeled "Account Name" and is a dropdown menu with "admin" selected. The second field is labeled "Password" and is an empty text box. Below the password field is a "Login" button.

The initial password for the admin account is **admin**.
The initial password for the designer account is **designer**.

The designer account is used for creating and editing printer templates. Both accounts can be used to upgrade firmware and template files.

5 A brief overview of functions.

Figure 3 The main menu

Actions:
[Logout](#)
[Halt and Reboot](#)
[Change Password](#)
[Delete Captured Fonts](#)
[Load Firmware or License](#)


Configuration:
[Print Server](#)
[Services](#)
[Drivers](#)
[Driver Templates](#)
[Import or Export](#)
[GateManager](#)

Status:
[Overall Status](#)
[Error Log](#)
[Firmware Version](#)

Links:
[Contact and Support](#)
[Help](#)

You are logged in as designer

When you choose an **Action**, you will be shown a brief explanation on the screen before you actually go through with it.

You can also use the help  which will be shown on that screen.

Configuration > Print Server is for network settings: DHCP Yes/No. If DHCP = No, then set IP Address, Subnet Mask, Gateway. DNS: enter a server address if you want to be able to address target printers with names instead of IP addresses. Device identification: optional fields for device name, location and contact.


Configuration > Services: When you send a job to a printer through the Intermate Advanced Print Server (IAPS), it is the **Service** that keeps track of what to do. See section 6, page 5.

Configuration > Drivers and **Configuration > Driver Templates:** See section 8, page 7. Note: Driver Templates are only available, when you logged in with the designer account.

If you click on **Help** at the bottom of the menu, you will see the entire on-line help (which you can print out by making the window active and using Ctrl+p).

6 About the Service (Configuration > Services)

- The *Service Port* tells which TCP port the IAPS should use to receive IPDS jobs? Port 5001 is default and commonly used as shown in Figure 4.
- Which Target will the job be sent to? Two parameters need to be configured: a *Target Hostname* and a *Target Port*. Specify the *Target Hostname* by IP address or DNS Name. The *Target Port* is a raw socket port for input to the target printer. The default is 9100, which is commonly used. Check your printer documentation and your network design policy to see if you should select a different port.
- Which driver will be used? Select one from the *Driver* list-box.
- How should the IPDS Configuration parameters be set? Click on *Emulator Setup* in the *IPDS Configuration* column. The *Emulator Setup* is shown below on Figure 5, section 7,

Configuration > Services 

Licenses : 75ppm b/w and finishing



Service #	Activate	Service Port	Target Type	Target Hostname/IP	Target Port	Driver	Finishing	Licenses used	IPDS Config
1	<input type="checkbox"/>	5001	50ppm b/w 	<input type="text"/>	9100	--Select Driver-- 	<input checked="" type="checkbox"/>	75ppm b/w, fin	Emulator Setup

Figure 4 Configuration > Services

7 About printer emulation settings (Configuration > Services > Emulator Setup)

Configuration > Services > Emulator Setup

Service #1

Service Port: 5001 Target: 192.168.112.22:9100

IPDS Job Timeout : (Unit: Seconds. Range: 0-65535, 0=Off)

Emulation :

IPDS Resolution :

Valid Printable Area (VPA) :

Default Code Page :

Code Page Version :

Page Counter Update :

Duplex :

Reporting Suppression : VPA Exceptions Undefined Char Exceptions Intervention Required

Font Capture Setting :

Default Font :

Default Font Size : (Unit: 1/100 pt. Range: 0-4800)

Font Substitution :

Enable IPDS Data Capture : IPDS Capture Tool IP Address :

You do not need to do anything special to activate saved changes.
They will take effect starting with the next IPDS session.

Figure 5 Emulator Setup

Use the On-line help for further details on the various parameters and settings.

8 How do I Create a Driver?

Drivers can be created in two different ways as explained in sections 8.1 and 8.2 .

After creating the new driver, you can optimize it. The created driver can be used as foundation to create as many drivers as you would need.

8.1 Create an Driver from a Driver Template

On *Configuration > Drivers*, press *Add* and a new line will open up.

8.1.1 Select a Driver Template

Select a Driver Template from the *Driver* list box. The screen shot below shows a PCL template “PCL Generic (A4)” highlighted.

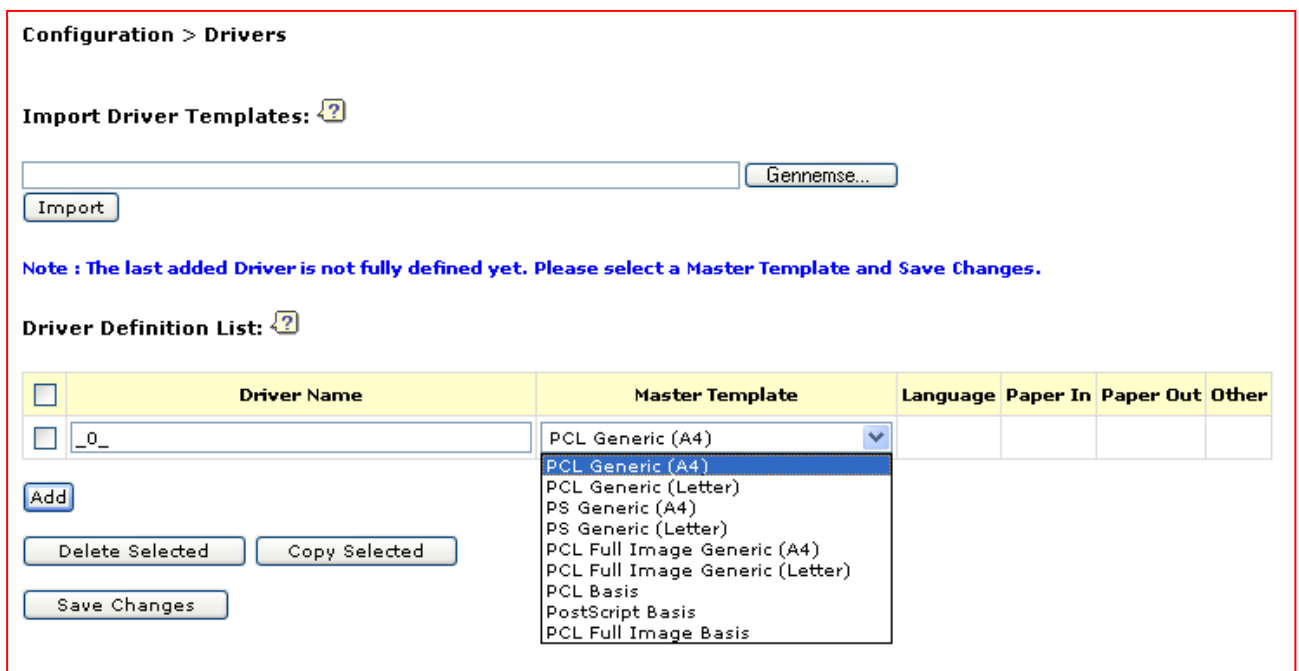


Figure 6 Example of a Driver Creation

Note: The order in which the driver templates are presented is the same order in which they are listed in the *Configuration > Templates: Driver Template Definition List*. If you log on as designer, you can freely adjust the list to any given order.

8.1.2 Give it a Name and Save Changes

Give the new driver a name of your own choice and press *Save Changes*. The Language field becomes read-only, and the remaining options become selectable for the driver. You can take this as a confirmation that everything went well. The result is a new driver with a copy of the settings from the chosen template.

As confirmation the three rightmost columns gets accessible, and you can continue to work with input, output, and miscellaneous settings for the driver.

We recommend that you write the specifics about the driver in the Configuration Notes witch is found at: *Configuration > Drivers > Miscellaneous*

8.2 Make a Copy of An Existing Driver.

On *Configuration > Drivers*:

8.2.1 Mark the Source Driver

Tick the Select box to the left of the desired driver and press the Copy Selected button. This will open a new line.

Only one driver can be copied at a time!

8.2.2 Give it a Name and Save Changes

Give the new driver a name of your own choice and press *Save Changes*. The Language field becomes read-only, and the remaining options become selectable for the driver. You can take this as a confirmation that everything went well. The result is a new driver with a copy of the settings from the chosen template.

As confirmation the three rightmost columns gets accessible, and you can continue to work with input, output, and miscellaneous settings for the driver.

We recommend that you write the specifics about the driver in the Configuration Notes witch is found at: *Configuration > Drivers > Miscellaneous*

9 How do I Use the Driver

Any driver has a very good chance of working with the default values. This applies to drivers supplied with the print server as well as to new drivers.

However, before printing, you should check all three parts of the configuration and the emulator setup. This is because individual printers – and printing practices – vary a lot. Even if the driver works with its default values for a particular kind of target printer, you may still need to adjust the driver in order to get the best out of any given target printer. Here are some of the features: IPDS Source and Tray mappings, IPDS Destination and Bin mappings, Paper and Tray mappings, Paper Offsets, IPDS Resolution, Font Capture, Font Substitution, IBM Printer Type Emulation, Color Printer support, Simplex/Duplex, Rotation, Simplex/Duplex dependant rotation and much more.



Tip: One of the strengths of the IAPS is that you can optimize your drivers in almost any way. This can be a bit of a challenge, because it demands that you know your printing environment - but it is well worth it. The on-line help explains each individual parameter. In addition, there is supplemental information on the product support portal. When you optimize a driver, use these resources so that you do understand the meaning of each field and its impact on your printing environment.

10 How do I configure a Driver? (Configuration > Drivers)

A driver is always created as copy of a *Driver Template* which is then edited to suit your needs. The Driver keeps its relation to the Driver Template, unless it is deleted. How many drivers there are in your IAPS depends on which type of printer or printers you will use.

To use the IAPS you will need to have at least one driver.

This section shows how each driver configuration is built up and points out parameters that you may want to adjust on an existing driver. There are many details you might want to configure, especially things like paper definitions and offsets on the Input Trays. You can also use this information to create your own drivers.

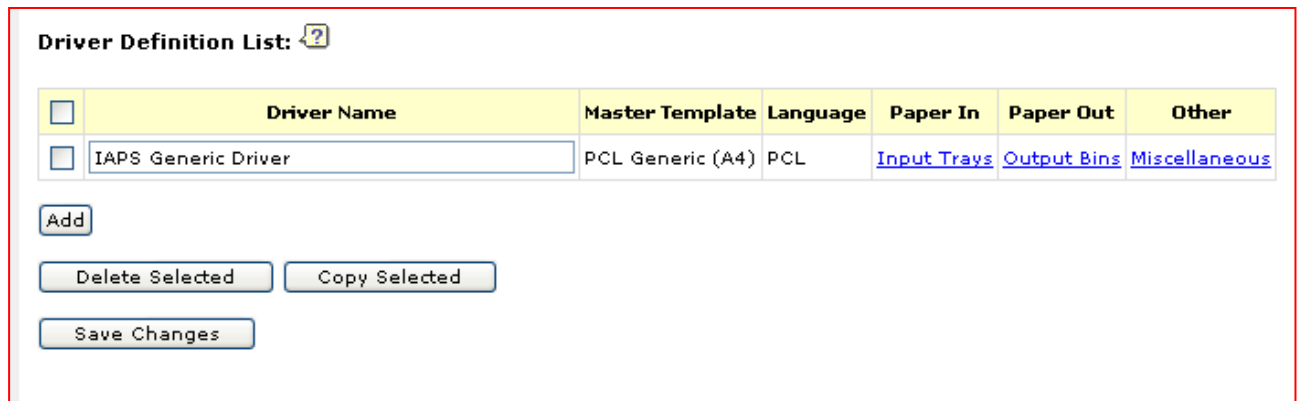


Figure 7 An Example of a Driver.

You can see that the driver was copied from a *Driver Template*, named PCL Generic (A4). The Driver converts IPDS to PCL and is named “IAPS Generic Driver”

The following inform of the three configurable parts of a driver:

- Input Trays: The Paper Source Menu (10.1)
- Output Bins: The Paper Destination Menu (10.2)
- Miscellaneous: The Other Options Menu (10.3)

Using these screens, you can configure a broad range of highly customized drivers to be used with any given or specific target printer.

10.1 The Input Tray Menu

The Input Tray menu consists of the following 5 sections:

10.1.1 The Paper Definition Section

Paper Definitions:

Name	Selection	Extent X	Extent Y	Border X	Border Y	Duplex	Rotation	Envelope	Language	
A4	/1B,"&l26A"	59527	84188	1704	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
Executive	/1B,"&l1A"	52200	75600	1800	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
Letter	/1B,"&l2A"	61200	79200	1800	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
Legal	/1B,"&l3A"	61200	100800	1800	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
Monarch	/1B,"&l80A"	27900	54000	1800	0	None	0 degrees	<input checked="" type="checkbox"/>	Current	Delete
Com-10	/1B,"&l81A"	29700	68400	1800	0	None	0 degrees	<input checked="" type="checkbox"/>	Current	Delete
International DL	/1B,"&l90A"	31181	62362	1704	0	None	0 degrees	<input checked="" type="checkbox"/>	Current	Delete
International C5	/1B,"&l91A"	45921	64913	1704	0	None	0 degrees	<input checked="" type="checkbox"/>	Current	Delete
A3	/1B,"&l27A"	84189	119055	1704	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
Ledger	/1B,"&l6A"	79200	1224000	1800	0	Short/Long Edge	0 degrees	<input type="checkbox"/>	Current	Delete
International B5	/1B,"&l100A"	49889	70866	1704	0	None	0 degrees	<input checked="" type="checkbox"/>	Current	Delete

Add

Figure 8 The Paper Definition Section

This section shows the various paper definitions that have been defined for this driver. Extent and Border values are given in 1/7200 inch.

10.1.2 The Input Tray Section

Input Trays:

Name	Manual Feed	Selection	Before	After	Paper	Language	
Tray 1	<input type="checkbox"/>	/1B,"&l1H"			A4	Current	Delete
Tray 2	<input type="checkbox"/>	/1B,"&l4H"			A4	Current	Delete
Tray 3	<input type="checkbox"/>	/1B,"&l5H"			A4	Current	Delete
Tray 4	<input type="checkbox"/>	/1B,"&l20H"			A4	Current	Delete
Tray 5	<input type="checkbox"/>	/1B,"&l21H"			A4	Current	Delete
Envelope Feed	<input checked="" type="checkbox"/>	/1B,"&l6H"			Com-10	Current	Delete
MP	<input checked="" type="checkbox"/>	/1B,"&l2H"			Com-10	Current	Delete
Manual Env	<input checked="" type="checkbox"/>	/1B,"&l3H"			Com-10	Current	Delete

Add

Figure 9 The Input Tray Section

This section shows the various types of input trays that have been defined for this driver. Please note, that the Paper field shows the names, as defined in the Paper Definitions Section. The Language field (Current or PJI) refers to which kind of printer language that is used in the Selection-, Before- and After- fields. If Current is selected in the Language field, the content of the Selection field must be the native language of the printer (PCL or PostScript) and the selection PJI would be Printer Job Language (PJI) or any other proprietary language that can be invoked after a Universal Exit Language (UEL) Command.

10.1.3 The Manual Feed Max Paper Size Section

Manual Feed Tray Max Paper Size: Legal

Figure 10 The Manual Feed Max Paper Size

This Section shows the biggest paper definition that can be fed by the manual feed tray.

10.1.4 The Input Tray Offset Section

Input Tray Offsets:

Input Tray	Front Offset X	Front Offset Y	Back Offset X	Back Offset Y	
Tray 3 <input type="button" value="v"/>	1800	1200	900	1200	<input type="button" value="Delete"/>
Tray 4 <input type="button" value="v"/>	600	600	600	600	<input type="button" value="Delete"/>
Tray 5 <input type="button" value="v"/>	1410	0	1040	0	<input type="button" value="Delete"/>

Figure 11 The Input Tray Offset

This section is used to adjust the position of the printable area of the physical page. Tray Offset settings affect all IPDS jobs, but they are not affected by any IPDS commands in the print stream. Tray Offsets are never included in a template, as they are unique for each physical printer and tray. Please note that the Input Tray field shows the names, as defined in the Input Tray section.

Units are given in 1/7200 inch.

10.1.5 The Input Tray Mappings Section

Input Tray Mappings:

Input Tray	IPDS Tray Number	
Tray 1 <input type="button" value="v"/>	0	<input type="button" value="Delete"/>
Tray 2 <input type="button" value="v"/>	1	<input type="button" value="Delete"/>
Tray 3 <input type="button" value="v"/>	2	<input type="button" value="Delete"/>
Tray 4 <input type="button" value="v"/>	3	<input type="button" value="Delete"/>
Tray 5 <input type="button" value="v"/>	4	<input type="button" value="Delete"/>
Envelope Feed <input type="button" value="v"/>	64	<input type="button" value="Delete"/>
MP <input type="button" value="v"/>	99	<input type="button" value="Delete"/>

Figure 12 The Input Tray Mappings

This section shows which IPDS Source ID that has been assigned to each input tray. In case of more than one tray has been mapped to the same IPDS Source ID, the IAPS will choose the last mapping (Top – Down).

For further information, please refer to the online help.

10.2 The Output Bin Menu

The Output Bin menu consists of the following 3 sections:

10.2.1 The Output Bin Section

Output Bins: [?](#)

Name	Selection	Before	After	Offset Stacker	Language	
Main (Shift 1)	/1B,"&l1G"			yes <input type="button" value="v"/>	Current <input type="button" value="v"/>	Delete
Proof (Upper)	/1B,"&l2G"			no <input type="button" value="v"/>	Current <input type="button" value="v"/>	Delete
Booklet (Shift 2)	/1B,"&l3G"			yes <input type="button" value="v"/>	Current <input type="button" value="v"/>	Delete

Add

Figure 13 Output Bin

This section shows the various types of output bins that have been defined for this driver. Please refer to the description of the Input Bin section.

10.2.2 The Output Bin Mapping Section

Output Bin Mappings: [?](#)

Output Bin	IPDS Bin Number	
Main (Shift 1) <input type="button" value="v"/>	1	Delete
Proof (Upper) <input type="button" value="v"/>	2	Delete
Booklet (Shift 2) <input type="button" value="v"/>	3	Delete

Add

Figure 14 Output Bin Mapping

This section shows which IPDS Destination ID that has been assigned to each output bin. In case of more than one Bin has been mapped to the same IPDS Destination ID, the IAPS will choose the last mapping (Top – Down).

For further information, please refer to the online help.

10.2.3 The Finishing Operation Section

Finishing Operations:

Operation Type	Position	Activation	Deactivation	Language	
Corner staple	Default, unused	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Corner staple	Left, bottom left	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Corner staple	Top, top left	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Corner staple	Right, top right	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Edge stitch	Default, unused	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Edge stitch	Left, bottom left	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Edge stitch	Top, top left	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Edge stitch	Right, top right	"@PJL SET STAPLE=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Punch	Default, unused	"@PJL SET PUNCH=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Punch	Left, bottom left	"@PJL SET PUNCH=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Punch	Top, top left	"@PJL SET PUNCH=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Punch	Right, top right	"@PJL SET PUNCH=1	"@PJL EOJ",/0D,/0A	PJL	Delete
Saddle stitch in	Default, unused	"@PJL SET TRAYSW1	"@PJL EOJ",/0D,/0A	PJL	Delete

Figure 15 Finishing Operations Example using PJL

This section shows an example of activation- and deactivation strings and language settings (Current or PJL) for some of the various finishing options that IPDS supports.

Each operation type could have 5 different positions:

- Default/unused
- Left/Bottom Left
- Top/Top Left
- Right/Top Right
- Bottom/Bottom Left

Which of these 5 positions that's available depends on the printer and tray/bin definitions.

The 7 finishing operation types supported by IPDS are:

- Corner staple
- Fold in
- Separation cut and perforation cut
- Z-fold
- Center-fold in
- Punch
- Saddle stitch and edge stitch

Note: Finishing operations are inherently device specific; for example, not all stapling systems have the same capabilities in terms of positioning, thickness that can be stapled, and mechanism controls. The stapler might also work only with specific media destinations or specific kinds of media.

For more information about finishing, please refer to the online help or consult your printer/finisher manual and IPDS finishing literature. One good place to look is IBM's Redbook Series about Data Stream and Object Architectures: "Intelligent Printer Data Stream Reference" (S544-3417-06).

10.3 The Miscellaneous Menu

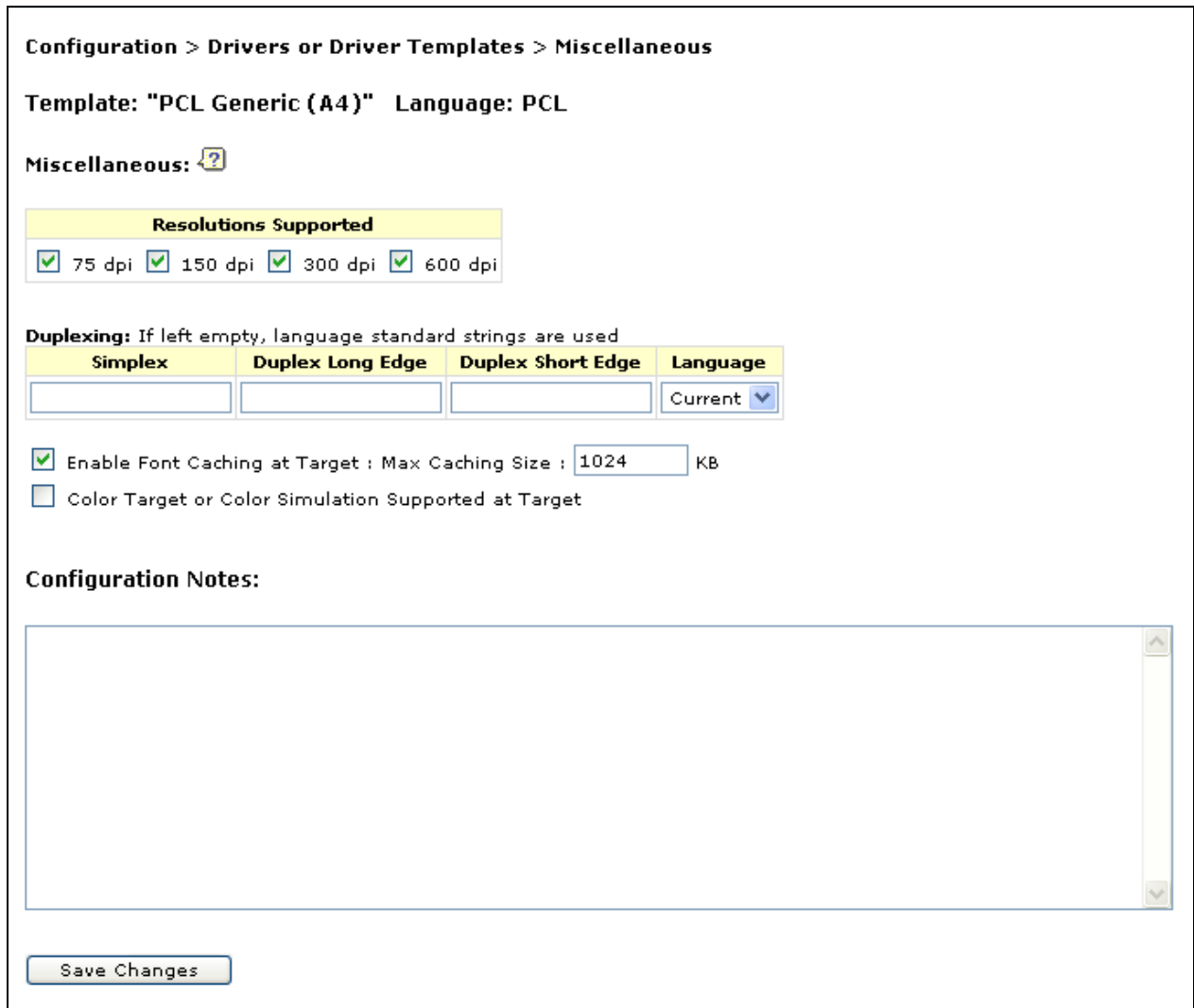


Figure 16 Miscellaneous

The Miscellaneous screen varies according to the printer language on which a driver is based.

When possible, enable Font Caching at Target and Max. Caching Size (available for PCL type drivers only) to increase printing performance.

The duplexing strings is optional and should be used if the printer doesn't accept the PCL/PostScript default commands for duplexing.

An additional multiline field on the *Configuration > Drivers > Miscellaneous* or *Configuration > Driver Templates > Miscellaneous* screen allows you to put your own configuration notes into the template or driver. Comments entered in a template will be copied into drivers, created from this template.

For further information, please refer to the online help.

11 How do I configure a Driver Template? (Configuration > Driver Templates)

The Driver Template is configured the same way a driver is configured (Section 10 at page 9).

NOTE: In order to work with Driver Templates, you must use the Designer Account

The print server’s firmware always includes a set of driver templates, as shown on Figure 17.

There are two groups of driver templates provided:

- Basic driver templates are empty and can be used when creating drivers from the scratch.
- Generic driver templates have common values that should fit basic ‘main stream’ printer usage.

The ‘PCL Generic (A4)’ driver template has the input trays pre-selected to A4, when possible, and the ‘PCL Generic (letter)’ driver template has the input trays pre-selected to letter, when possible.

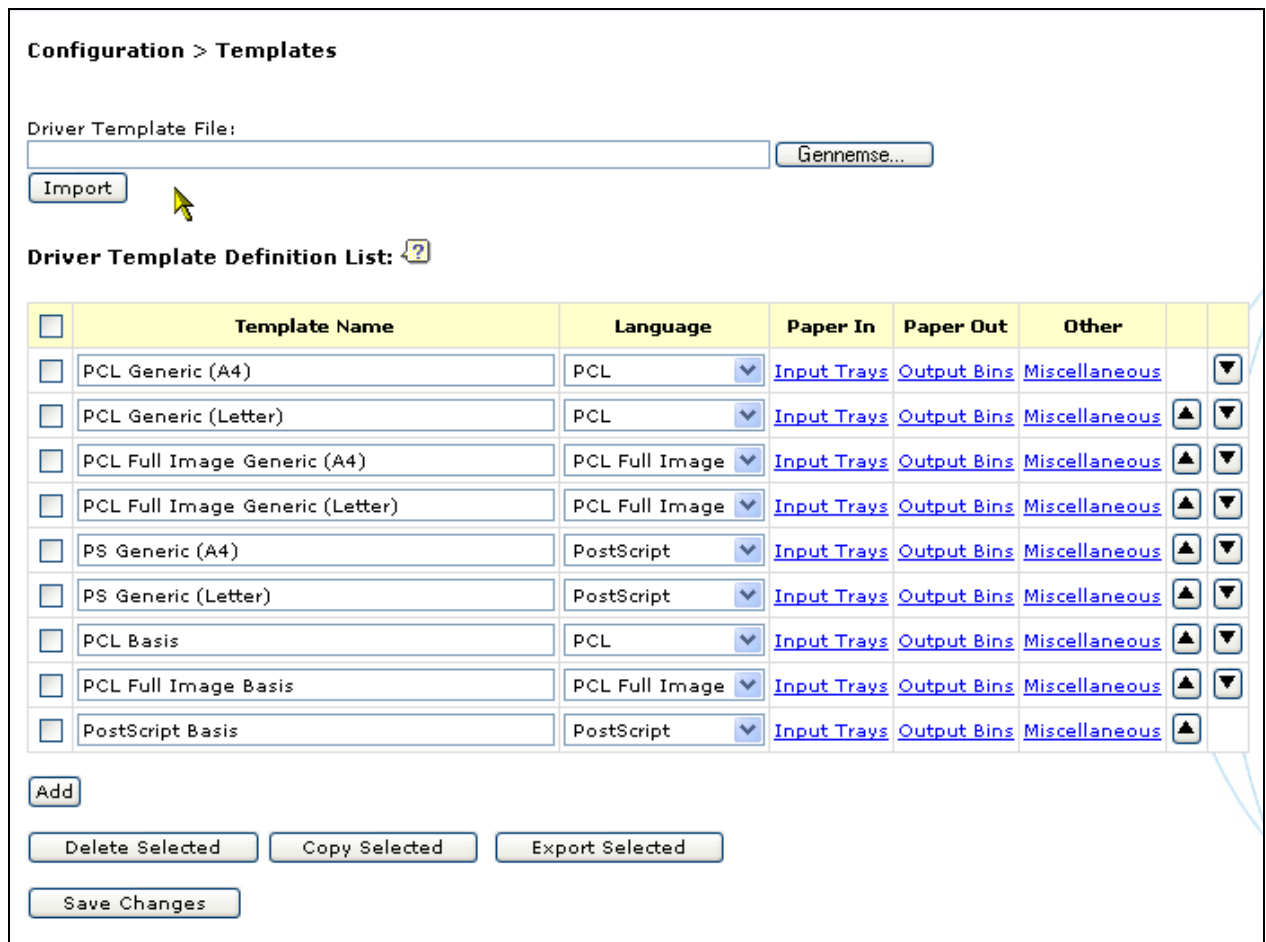


Figure 17 Driver Templates

Driver templates are not only the basis for creating drivers. Driver templates can also be used to create new driver templates.

12 How do I Create a Driver Template?

Templates can be created in two different ways as explained in sections 12.1 and 12.2 .

After creating the new driver template, you can optimize it, just as you would optimize any driver. The created driver template can be used as foundation to create as many drivers as you would need.

12.1 Create an Empty Template

- 1 Press the Add button. This opens a new line.
- 2 Choose a printer language using the drop down list.
- 3 Give the driver template a name.
- 4 Press the Save Changes button.

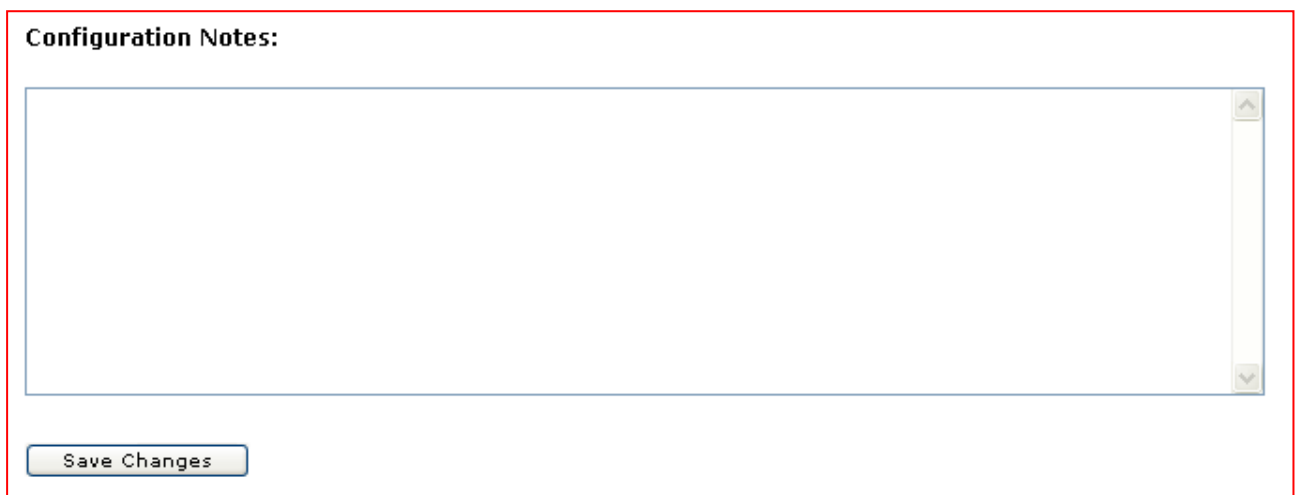
12.2 Make a Copy of An Existing Driver Template.

- 1 Tick the Select box to the left of the desired template and note its printer language. (Only one driver template can be copied at a time)
- 2 Press the Copy Selected button. This will open a new line.
- 3 Give the driver template a name.
- 4 Press the Save Changes button.

As confirmation the three rightmost columns gets accessible, and you can continue to work with input, output, and miscellaneous settings for the driver.

The duplexing strings is optional and should be used if the printer doesn't accept the PCL/PostScript default commands for duplexing.

An additional multiline field on the Configuration > Driver Templates > Miscellaneous screen allows you to put your own configuration notes into the template or driver. Comments entered in a template will be copied into drivers, created from this template.



The image shows a screenshot of a web-based configuration interface. At the top left, the text "Configuration Notes:" is displayed. Below this is a large, empty text area with a vertical scrollbar on the right side, indicating it is a multiline field. At the bottom left of this text area, there is a button labeled "Save Changes". The entire configuration area is enclosed in a red rectangular border.

Figure 18 The Configuration Notes Field.

13 Notices

13.1 Publication Information

Configuration Guide. Edition 1. 6 January 2005. Conforms with release 2.0

The information contained in this document is subject to change without notice.

Composed in Denmark.

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Product support portal <http://www.intermate.com/iaps>

13.2 Disclaimer

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