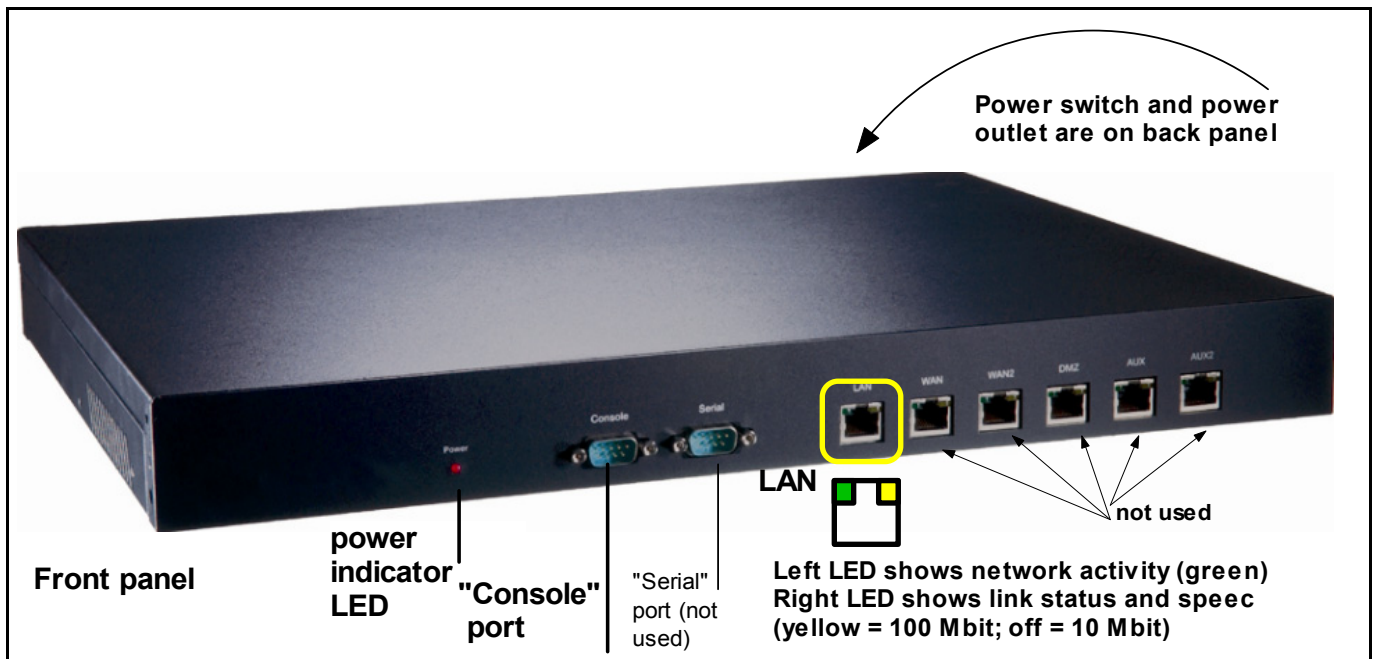




1 Package contents and documentation

- Intermate Advanced Print Server IPDS (IAPS IPDS).
 - EMI/EMC: All interfaces intended for external connections are protected against emissions.
 - Agency compliance: EU: CE Marking EN 55022 Class A, CE Marking EN55024. USA: FCC Part 15 Class A



- All network connectors are 8-pin shielded RJ-45. Each controller provides 10/100 Mbps auto-sensing fast connection. This product only uses the Ethernet port labeled LAN.
- Power cords: Danish, EU, USA.
- Getting Started (this document) - covering physical installation and initial configuration of the IAPS IPDS
- Documentation & Utilities CD. Most of the IAPS documentation is not on the CD. There is quite a lot of material on the product support portal <http://www.intermate.com/iapsipds>.
- The IAPS on-line help is very extensive. Use it to supplement these instructions, especially for section 6.

2 System requirements

- The host must be capable of printing IPDS on TCP/IP.
- Target printer requirements:
 - The IAPS can be used with most PCL 5e- or PostScript (level 2)-compliant page printers.
 - To achieve full IPDS control, the printer must support SNMP v.1 printer-MIBs.
 - The printer must support TCP/IP raw socket print (for example be able to print to "port 9100").
- For network attachment you need a LAN drop cable with an Ethernet RJ45 male connector (not included).
- If you want to connect the PC and the IAPS directly, you need a cross-over cable (not included).

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- The angle brackets and screws are for fastening the appliance to a 19-inch rack. In order to use the screws, you need a Phillips screw driver.
 - For configuring the print server you need a browser. Java Script must be enabled and the browser must be able to handle frame sets.

3 Hardware installation

- 1) Connect the print server's LAN interface (front panel) to the network - or to the PC. If you connect the LAN interface directly to the PC with a cross-over cable, remember to turn the PC off first.
- 2) Connect the power cord to the mains and turn the print server on. The power LED should light red.
- 3) When a connection is established, the right LED on the interface will either be lit (yellow, if the connection is 100 Mbit) or off (10 Mbit connection). Activity on a connection is shown with blinks (green) on the left LED. If you are in doubt as to whether or not there is a connection:
 1. Make sure that all cables are firmly connected
 2. If you are using an Ethernet wall outlet, make sure that the outlet is connected to an Ethernet switch or hub.
 3. Make sure that you are using the correct cable between the IAPS hardware and the PC or LAN. Use a cross-over for a direct connection between the two; otherwise, use a straight-through drop cable.

Tips about powering on and off

- Push the button on the back panel to toggle power on or off.
- It can take up to 40 seconds in all from connecting to the mains until the IAPS is ready.
- If you keep the power switched on, the appliance will automatically start again after a power outage.
- Saved changes get committed about once a minute. Therefore, if you have saved one or more changes, wait for about a minute before powering off.

4 Initial contact A: about the user names and passwords

Initial password for the admin account is **admin**.

Initial password for the designer account is **designer**.

User names and passwords are **case-sensitive**.

5 Initial contact B: choose one of three methods for IP settings

5.1 IP settings via DHCP server

When connected, the IAPS will attempt to obtain its IP settings via DHCP. To connect to the IAPS, enter the IP address into your browser's address field.

Tip: If you do not have access to view the lease list on the DHCP Server, use the Appliance Launcher (see next section) to detect and initiate contact to the IAPS.

5.2 IP settings configured through the Intermate Appliance Launcher

Make sure you know the settings you will use for Device Name, LAN IP, and (if you use it) GateManager. We recommend using the Launcher Settings Sheet even if you do not use the Appliance Launcher. The Appliance Launcher and templates for the Settings Sheets are found on the Document & Utilities CD and on the product support portal.

- 4) Make sure the PC you are running the Appliance Launcher from is connected to the same physical network as the IAPS itself. Alternatively use the cross-over cable to connect your PC directly to the IAPS.
- 5) Run the Appliance Launcher, following the instructions on the screen and set the desired IP settings remember to set DHCP = No if you are configuring a fixed IP address.
- 6) If you are enrolling the IAPS in a GateManager:
 - a) Wait a few minutes after having finalized the Appliance Launcher configuration. If you are out in the field and the GateManager Console user is located somewhere else, contact that person to let them know that you have finished the installation.
 - b) Check through the GateManager Console that the IAPS has announced itself.
- 7) If you have used a cross over cable between the IAPS and your PC, connect the IAPS to its permanent position on the LAN

Tip: The Appliance Launcher is supported on IAPS IPDS version minimum version 4 (March 2007). Use the Intermate Management & Configuration Utility (IMCU) if you need to detect or configure older IAPS TNE versions. The IMCU is found on the Documentation & Utilities CD and on <http://www.intermate.com/imcu>.

5.3 IP settings configured through the default static IP address

- 1) Wait for about 5 minutes after physical connections are established. At this point, the IP address in the IAPS defaults to the static address **10.0.0.1**.
- 2) Configure your PC manually with an IP address within the same subnet (e.g. set the PC's IP address to 10.0.0.2).

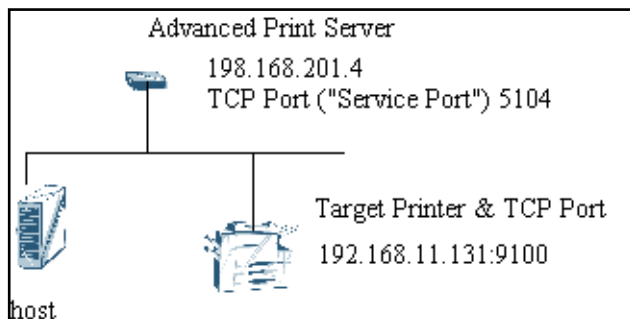
Note: There may be restrictions in your network for this subnet, or there may be a conflict. If so, you can isolate the PC and the IAPS in their own network through a hub or a switch,- or you can simply connect the PC to the IAPS directly through a cross-over Ethernet cable.

- 3) Open a browser and type in `http://10.0.0.1`. After you log in, use the menu **Configuration > Print Server** to set the desired IP address, subnet mask and Gateway – and set DHCP = No.
- 4) When you are finished with the configuration, you need to ensure that all settings are properly saved before you remove the power supply and move the IAPS. To do this you can:
 - a) simply wait for about a minute and then remove the power supply. Or
 - b) force a reboot from the GUI and remove the power supply as soon as you see the Error LED turn red on the front panel.
To force a reboot, choose **Halt and Reboot** in the **Actions** menu. Click the **Halt All Services** button (at the bottom of the page). When the overall **Halt Status** reads **halted successfully**, a **Reboot System** button will appear at the bottom of the page. Click it.
- 5) Attach the IAPS to its proper place in the network using a LAN drop cable. Restore power.
- 6) Remember to restore your PC's IP settings.

6 Finish "Configuration: Print Server" on the IAPS

Network Settings are mandatory except for DNS Server IP Address. You only need to enter a DNS if you want to refer to a target printer by a host name (instead of an IP address) in a service definition. Optional: finish the Print Server configuration by adding Device Identification and System Time.

7 IPDS printer configuration: overview



The host prints to the IAPS which then re-directs the data to a Target Printer.

There are two key configurable objects in the IAPS: The Service and the Driver.

You configure a **Service** in order to control the re-direction. Thus, the IPDS printer you define on the host must print to the IAPS IP address and the TCP Port ("Service Port" in the GUI) for the desired Service – for example, as shown in the figure, 198.168.201.4 port 5104.

In turn, the Service sends the job on to the Target Printer – for example, as shown in the figure, 192.168.11.131. In the Service definition, the Target Printer is identified by "Target Hostname/IP" and TCP Port ("Target Port/Queue" in the GUI).

The **Driver** tells the service which printer characteristics to emulate. In a Service configuration, you must use a Driver which is appropriate for the Target Printer. The IAPS can contain an unlimited number of Drivers.

8 IAPS-Driver configuration in the IAPS GUI

The product you buy may include one or more Drivers that are completely tailored to one or more specific printer models that you print to. If so, go directly to step 5) on page 4 to check and fine-tune a Driver.

Path: Configuration > Drivers

- 1) Click Add to open up a line for your new Driver.
- 2) Type in a Driver Name – please check the on-line help for naming restrictions.
- 3) Select a Master Template from the pull-down list.
 - PCL, PostScript, and PCL Full Image refer to the printer language ("back-end") for your output.
 - We suggest using a "Generic" template, so that the driver will inherit a large number of suggested settings for Input Trays (including 11 paper definitions) and Output Bins. Choose the A4-variant if you want the suggested Input Tray settings to specify A4 paper for your input trays; choose the Letter-variant if you want these settings to specify Letter.

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- 4) Click Save Changes. The result is a new Driver where all settings have been copied from the chosen template.
 - 5) The IPDS application you print from may use different tray and bin mappings than the ones included. So you should always check the mappings in both the Paper In (Input Trays) settings and the Paper Out (Output Bins) settings.
 - 6) If you will be printing with finishing options, configure the desired options in the Paper Out (Output Bins) settings.
 - 7) Optional: Check the Miscellaneous settings. These settings depend on the printer language and can include supported resolutions; font caching; and color/greyscale settings; job begin/job end strings, "alternate" duplex selection strings, and so on. There is also a text field for your configuration notes.
 - 8) Tweaking. Even if the driver works with its default values for a particular *kind* of target printer, you may need to adjust the driver for the best possible results on a *specific printer*. For example, input tray offsets are dependent on specific physical printer characteristics. And it can be necessary to re-define paper and tray selections in order to meet company standards.

9 IAPS-service configuration

Path: Configuration > Services

Service Port: Be sure to adjust the Service Port number so it matches the IPDS port number used by the IPDS printer definition on the host.

Target Type: If this parameter is shown, it means that you can choose the desired performance (in pages per minute – ppm) for the service. And, if your license includes color, you can choose color or b/w.

Target Hostname/IP and Target Port: Enter the Hostname or IP of the network-attached printer you want to use. If you use a hostname, you must have a DNS server configured in Configuration > Print Server.

Target Service Type: Select Raw Socket or LPR.

Target Port/Queue: Enter a TCP target port; Port 9100 is the most commonly used with Raw Socket.

Driver: Select a driver that is compatible with the target printer. If you cannot find one on the list, go to section 8 above, page 3.

Finishing: If this parameter is shown, it will either be read-only or configurable with a check-box. If it is configurable, then you can allocate a finishing license to the service.

IPDS Config: Emulator Setup: Click on the link to inspect the emulator setup and adjust as desired.

Activate: In order for the Service to receive and process IPDS print, you must activate it.

10 IPDS printer definition on the host

Be sure to configure your IPDS printer definition to print to the IAPS IP address – *not* to the target printer address. Double check to make sure that the IPDS port number used in this printer definition matches the Service Port number for the IAPS service you want to use.

11 Notices

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