

# Intermate Advanced Print Server IAPS ThinPrint 200 Series Getting Started –Edition 3a



## 1 Package contents and documentation

- Intermate Advanced Print Server (IAPS) hardware
  - 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
- An external power supply (AC/DC adapter)
- A cross-over (cross-wired) RJ45 Ethernet male cable
- “Getting Started” (this document) for physical installation and initial configuration of the IAPS ThinPrint
- Documentation & Utilities CD
- Additional documentation is posted on the product support portal [www.intermate.com/iaps](http://www.intermate.com/iaps) - select IAPS ThinPrint. Among other things, you will find a pdf version of the online help, which is an extensive options reference. Use it to supplement these instructions.



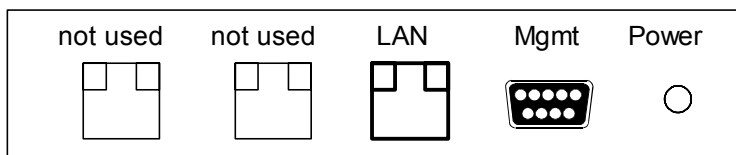
## 2 System requirements

- Target printers must support TCP/IP raw socket print (e.g. via port 9100) and/or LPR print (port 515).
- For network attachment of the IAPS, you need a LAN drop cable with an Ethernet RJ45 male connector (not included).
- ThinPrint® .print Server Engine (with appropriate licenses). The IAPS ThinPrint supports .print AutoConnect, which requires a Microsoft Windows 2000 Server or Windows Server 2003 on the ThinPrint® .print Server.  
The IAPS ThinPrint supports .print Connected Gateway (Connection Services)
- For configuring the IAPS ThinPrint you need a browser. Java Script must be enabled and the browser must be able to handle frames.

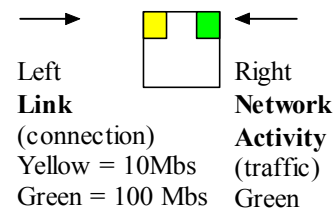
## 3 Hardware installation

All network connectors are 8-pin shielded RJ-45. Each controller provides 10/100 Mbps auto-sensing fast connection. The connectors are on the back panel of the unit. This product only uses the Ethernet port labelled LAN.

### Back panel:



Function of the indicator LEDs on each Ethernet port



- 1) Connect the print server's LAN connector to the LAN using your LAN drop cable (or – for configuration purposes – use the cross-over cable to temporarily connect the LAN connector to your PC).
- 2) Connect the AC/DC adapter to the print server's DC power inlet and a 110-230V power source.

- 3) To ensure that the unit is ready, check the indicator LEDs according to the following instructions.

When a connection is established, the left LED on the interface should be lit (Link = green or yellow/orange). If the left LED on the LAN connector is not lit, do the following:

- a) Make sure that all cables are firmly connected
- b) If you are using an Ethernet wall outlet, make sure that the outlet is connected to an Ethernet switch or hub.
- c) Make sure that you are using the correct cable between the IAPS hardware and the PC or LAN. Use the cross-over for a direct connection between the two; otherwise, use a straight-through drop cable.

**Front panel – Indicator LEDs:**



The Error LED lights red briefly every time the IAPS is powered on — and every time a reboot is done by other means.

The IAPS is ready when Power is on (green) and Error is off.

**Important!** If the red Error LED does not turn off by the time the Power LED turns green, or very shortly thereafter, the unit is defective and needs to be returned to your point of purchase.

**Tips about powering on and off**

- To power on or off, insert or remove the jack from the IAPS – or the plug from the mains. It can take up to 40 seconds in all from connecting to the mains until the IAPS is ready.
- If power is lost and then restored, the IAPS will automatically turn on again and reboot.
- 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 IAPS Web GUI login

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

User names and passwords are case-sensitive.

(The designer account is not currently used in IAPS ThinPrint)

## 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 port.

- 1) 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.
- 2) 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.
- 3) 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.
- 4) If you have used a cross over cable between the IAPS and your PC, connect the IAPS to its permanent position on the LAN.

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*Tip: The Appliance Launcher is supported on IAPS ThinPrint version G53-22rc-018 (September 2006) or higher. Use the Intermate Management & Configuration Utility (IMCU), if you need to detect or configure older IAPS 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

If no DHCP server is available, and you do not want to install the IMCU:

- 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 the cross-wired Ethernet cable provided.*

- 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, select **Actions: Reboot** in the menu.
- 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 as described above are mandatory except for DNS Server IP Address, which is only needed if you want to make configurations which refer to a target printer or an IBM host by DNS name (instead of IP address) Optional: finish the Print Server configuration by adding Device Identification and System Time.

## 7 ThinPrint® configuration overview – single .print Client

The following instructions will help you to get acquainted with the IAPS and make some test prints. Using more than one .print Client – which has many uses, and which is necessary for targeting more than 8 printers from the same IAPS – is described in the IAPS ThinPrint Guide. This is also where you will find information about .print AutoConnect, which may be necessary if the IAPS' own IP address is set through DHCP.

### 7.1 Basic port configuration on the .print Server

The .print Client will use a ThinPort on the .print Server (the port is configured using TPAdmin or the newer MMC tool). Always select the **TCP/IP (sockets) protocol**

**Example: Port name = ThinPort (default). Bandwidth (bit/s) = 25600 (typical). TCP Port = 4000 (default).**

On the advanced configuration tab, select a **name convention**. This example uses the convention “ClientAddress/User:ID#PrinterName”.

### 7.2 Target Printer configuration on the IAPS

*Path: Configuration: Target Printers*

Configure at least one Target Printer on the IAPS. For each printer you must enter information used to create ThinPrint printer-object names, and information about reaching the target and outputting to a port.

Click “Add” to open a line on which to configure a Target Printer.

#### Example 1

**ThinPrint Printer ID = 1. Important:** Each Target Printer on a given IAPS must have a different ThinPrint Printer ID

**ThinPrint Printer Description = Maxi. Instructions:** This is also known as “PrinterName”. It is case-sensitive. It must include at least one alphabetic character. You must not use (dot, period, full stop) : (colon) / (forward slash) \ (back slash) ^ (circumflex accent) or non-printable characters.

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**ThinPrint Class Name:** leave blank. (Using this field is explained in the IAPS ThinPrint Guide.)

**Target IP or DNS Name = 192.168.4.37. Instructions:** Type in an IP address or a DNS Name (maximum 256 characters, should follow syntax for a fully qualified DNS Name (FQDN)). To use a DNS Name you must also enter and save the address of a DNS server in Configuration: Print Server.

**Target Service Type: Instructions:** Select the type of printing you want on this printer: Raw Socket or LPR. If you choose Raw Socket, and don't want to use the default port 9100, change the value in the Port field. [1-65535]. If you select LPR, you must also enter an LPR Queue Name - maximum 64 characters.

### Example 2

ThinPrint Printer ID = 2

ThinPrint Printer Description = Happy1

**Target IP = 192.168.23.42**

Target Service Type: As in example 1

## 7.3 .print Client configuration on the IAPS

*Path: Configuration: ThinPrint .print Clients*

Click "Add" to open a line on which to configure a .print Client.

### Example:

Client TCP Port = 4000.

**Default Target Printer:** Select one of the Target Printers. The list shows the printers you have created, in this example Maxi and Happy1. The Target Printer will be used if a job gets directed to the IAPS using a printer object name where the Printer ID is missing or invalid.

**Other fields:** Leave the other fields at their default.

## 7.4 Printer objects on the .print Server

### Example

Make sure the .print Server has the necessary printer drivers for Maxi and Happy1.

Add the two printers to the .print Server using Windows. The names for the printers (also called printer objects) must use the selected syntax. For our examples, given that the IAPS' own IP address is 192.168.210.56, the printer object names would be:

192.168.210.56:1#Maxi and 192.168.210.56:2#Happy1

Associate both of these printers with the port "ThinPort" (as configured in 7.1 "Basic port configuration on the .print Server", page 3).

## 7.5 Make shared printers available to users who need to print

How this is done depends on network printing setups and policies.

### Example

If, for example, a user is printing from a Windows PC, shared printers pointing to 192.168.210.56:1#Maxi and/or 192.168.210.56:2#Happy1 must be installed on that PC.

## 8 Notices

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