

Intermate100 – Intermate101 Getting Started – edition 2a



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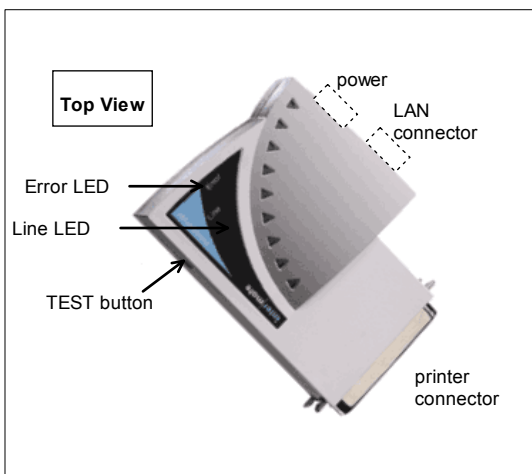
1 Package Contents

- Intermate100 or Intermate101 external printer interface and multi-protocol print server.
- Power supply 6.5 VDC 750mA (EUR, UK or US; can also be bought as spare part from Intermate)
- Getting Started (this brochure)
- Documentation and Utilities CD

2 Cables

- You need a LAN drop cable with an Ethernet RJ45 male connector to attach to the print server. This is NOT included in the package. Use a cross-over cable if you want to connect the other end of the cable directly to the computer from which configuration is done instead of connecting it to the LAN.
- Optional extension cables for centronics and mini-centronics are available from your point of purchase or Intermate.

3 Hardware installation



1. Power the printer off.
2. Remove any interface or cable occupying the parallel port connector you wish to use for the print server.
3. Snap the print server's printer connector on to the printer's parallel port connector. Secure its position by flipping both connector clips down into the notches on the unit.
4. Connect the print server's LAN connector to the LAN using a LAN drop cable.
5. Connect the power supply to a power source and to the print server's power inlet.
6. Power the printer on.

Note the following patterns for the LED indicators:

Upper (red - "Error"). Bottom (green - "Line").

- "Error" is ON (red) and "Line" is OFF = **Powering On**
- "Error" is OFF and "Line" is ON (green) = **Print Server is Ready**

-
- "Line" flashes (green) = **LAN traffic detected**. "Line" is OFF = **No LAN detected**.
(Full information on LED patterns is in the on-board Quick Guide and in an appendix in the Print Server Administration Manual.)

4 Print a status page and/or a "quick guide" / mini-manual

As soon as the hardware is installed on a printer and reports ready, you can print a status page directly from the print server. Press the TEST button and hold for 1-2 seconds. The status page shows all current configurations, including any key-enabled options that may already be present.

Keep the Status Pages for reference. Take special note of the IP address and the MAC address ("Global MAC Address"), also called the hardware adapter address or the IEEE address (in our examples we use 00-c0-a2-00-80-1e – which can also be written as 00:C0:A2:00:80:1E)

You can also print out the Quick Guide / mini-manual by pressing the TEST button for at least 4 seconds.

5 Configuration tools

Browser: If you wish to configure the print server with a browser, it must be able to handle frames and JavaScript. Minimum IE Explorer 6.0 with JavaScript enabled; or equivalent.

Telnet Client: Alternatively, you can also configure using a Telnet client. This is not illustrated in this brochure.

Intermate Management and Configuration Utility (IMCU): This is free HTTP service that you can install from the CD or our web-site, where you will also find instructions on installing and using it. It is especially useful for updating several print servers at once. Using the IMCU is not illustrated in this brochure.

6 Set the TCP/IP parameters

You must change the print server's IP address from the default (0.0.0.0). There are many different methods to choose from. This guide only shows "arp-ping". If any of the following apply, you cannot use arp-ping

- Because arp-ping does not work across routers, the print server and your PC must be on the same physical network; if this is not possible, you must choose another method.
- The network administrator always requires the use of a BOOTP or RARP server for assigning fixed IP-addresses to a device like this print server.
- You want to use the Intermate Management and Configuration Utility (IMCU) for detecting and configuring the print server (this also requires starting off on the same physical network).
- The IP address is no longer 0.0.0.0 so that you need to reset it using the TEST button.
- You are unsure about the appropriate method for you, or need a description of one of the other methods.

To find information on other methods than arp-ping for getting TCP/IP-connected, consult the:

- Quick Guide (mini-manual): Print it from the print server by using the test button as described above, or get it from our web-site.
- Print Server Administration Manual (from the CD or from our web-site, which may have a newer edition).

6.1 How to proceed using arp-ping

Give the following two commands from a Command Prompt: Syntax:

```
arp -s new_IP-Address MAC-Address_Intermate101
ping new_IP-Address
```

The arp command associates the IP address (192.168.130.219 in the example) with the MAC address.

You will find the MAC address on the status pages and on a label at the bottom of the print server.

The ping command stores the IP address and reboots the print server. It will also generate a "Reply" when the print server is ready. If you get a "Request timed out" message, ping again until you get a Reply.

Example (Windows – you must use an IP address suited for your network!):

```
C:\>arp -s 192.168.130.219 00-c0-a2-00-80-1e
C:\>ping 192.168.130.219
```

Note: If your workstation is running Unix, AIX or OS/2, use capital letters and use : (colon) as the separator symbol in the MAC address instead of - (hyphen).

6.2 Intermate 101 troubleshooting

If you cannot make contact with an Intermate101, the problem could be that the print server has gone over to Rescue Main mode. Install the IMCU (Intermate Management and Configuration Utility) as directed in the Print

Server Administration Manual, the quick guide / mini-manual or the special IMCU guide (www.intermate.com/imcu). The setting "Rescue Mode" will appear as Status on the line (within the Device List) where you can see the print server's MAC address. In this situation, you must follow the procedure for "Crash Recovery" in the Print Server Administration Manual.

7 Using a browser, log on and finish your TCP/IP settings

1. Type the IP address into the browser's address field.
2. The user name/account is **admin** and the initial password is **admin**.
3. Choose the TCP/IP page from the menu (Configurations: Basic: TCP/IP) to finish your IP configuration.
 1. Check to see that the BOOTP and RARP protocols are disabled.
 2. If you are only using the IP address as a stepping stone to DHCP, enable the DHCP option.
 3. Set other parameters as required by your network administration.
 4. Finish by clicking on Save & Cont. on the TCP/IP page.
4. If desired, fill out a device name (2-16 characters) on the General page. The device name functions as a host name in the LAN environment; syntactical restrictions may apply. Save & Cont.
5. To activate the settings, you must reboot. Click Restart (immediate) on the menu (in the group Actions).
6. Wait for the reboot to finish.

8 Firmware upgrade

Before starting to use the print server you should check the current firmware level on a status sheet (see how to print a status sheet on page 2). Visit the product support portal to see if there is newer firmware. Instructions for upgrading are in the Print Server Administration Manual.

9 Print

9.1 Windows 2000 – standard TCP/IP printer (Raw Socket; "port 9100")

Choose Settings > Printers > Add Printer. Follow the instructions given by the Add Print Wizard. The important things to notice are listed below.

1. Choose Local printer (yes, local).
2. Add a new port. This is defined as a combination of a given IP address (in our example 192.168.130.219) and a "port type". Available port types are displayed on the "Type" pull down list. At this point, you cannot directly specify Raw Socket, but must choose the heading "Standard TCP/IP Port"; you may have to scroll down a bit to find this heading it on the list. Choosing this port type starts the "Add Standard TCP/IP Printer Port Wizard".
3. As you type in the IP address for the print server, the wizard will generate a "Port Name" consisting of the IP address pre-fixed with the string "IP_". You may change the name.
4. When asked for additional information about the device types, choose "Standard: Generic Network Card". Its default settings are SNMP activated with the Raw/Port 9100 protocol.
5. You will be returned to the "Add Printer Wizard", where you will indicate the manufacturer and type of printer. If you already have a printer definition for this printer type, keep the existing driver (you can always change it later).
6. You will be asked to "Name Your Printer." If you have several different printer definitions for the same physical printer in your network, choose a name which will help to keep track of them. Tip: The definition of a "printer" consists of three elements: a) a physical printer from a specific printer manufacturer and of a specific type or model, with a specific IP address; b) a specific driver to be used; c) the port name to be used.
7. For a quick start, choose "Do not share" this printer.
8. If you choose to have a test page printed, you must click "Finish" before the test page comes out.
9. If you need to adjust or add information to the printer definition, wait until you are finished adding the printer. Then choose "Settings > Printer"; right-click on the new printer you have defined, and choose "Properties".

9.2 Other environments, protocols and printing methods

For information on all other environments, protocols and print methods, consult the Print Server Administration Manual, or one of the extensive Printing Environment Guides for IBM hosts, which is where you will find everything on IPDS and SCS/TNe.

10 About special printing options

- ThinPrint. The Interdate100 can be used as a ThinPrint Client. The Interdate101 can be used either as a ThinPrint Client or (in combination with configuration of the Network Destination Option) as a ThinPrint Client Gateway. Instructions are in a separate guide for ThinPrint. The ThinPrint option is standard.
- Network Destination Option with load balancing (NDO) This option allows the print server to support up to 5 printers (one local and four network). Instructions for using NDO are in the Print Server Administration Manual. The Interdate101 includes the NDO as standard. An NDO license key can be ordered for the Interdate100.
- Host Print Options (HPO)
 - IPDS. Unless you have a license key for this HPO, IPDS prints in "Demo/ Test" mode with a banner printed across each printed page. The IPDS option has full support for the Euro character. All information on IPDS is found in either the Printing Environment Guide for IBM Mainframe Hosts (covering PSF for OS/390 and z/OS as well as front end hosts running PSF/6000 or PSF/2) or in the Printing Environment Guide for IBM Midrange Hosts (covering PSF/400 for the AS/400 and iSeries).
 - SCS/TNe. Unless you have a license key for this HPO, SCS prints in "Demo/ Test" mode; the last line on each printed page is overwritten with a demo mode message. The SCS options have full support for the Euro character. All information on SCS/TNe is found in the above mentioned Printing Environment Guides for IBM hosts.
- Secure Print with Interdate Secure Printing Protocol (ISPP): This option requires a license key. Secure printing for raw socket and IPDS print streams is currently available for IBM Mainframe hosts running VPS products from the company LRS. No "Demo/Test" mode is available. Instructions are in a separate guide.

11 License Key

If you need key-enabled options that were not bought at the time of purchasing the print server, you can order a key from your point of purchase. If you bought the print server directly from Interdate A/S, you can order the key by fax or e-mail (sales@interdate.com)

A license-key is generated especially for your print server and the key-enabled options you pay to use. If you want to add options, order a new key to replace the old one. Instructions for entering the key into the print server are in the Print Server Administration Manual.

12 Documentation and Utilities CD

Documentation: Getting Started; "Quick Guide"/Mini-manuals (the text file which is on board each print server); Print Server Administration Manual; guides for thinprint, secure printing, IBM mainframe hosts, IBM midrange hosts, and the IDB Technical Reference (SCS configuration).

Most of the documentation is in PDF format. In order to read it, you need Acrobat Reader (Adobe Reader); version 5.05 is provided on Utilities page of the CD.

Utilities: IMCU (P19); Download (P16 – for use with serial cable); Print Port (P17) and IDB editors for SCS configurations (P01, P02, P19).

13 Product support portal

Visit www.interdate.com/interdate100 or www.interdate.com/interdate101. You can freely download documentation updates, release notes (which include historical information), and additional supplementary information, as well as software updates for firmware, font files, IDB Files (SCS configuration), private MIBs and utilities. There is also a Questions & Answers section in the general Support section of the website.

14 Supported Printers

Any printer with a standard or high-speed IEEE 1284 compliant, Centronics parallel port. For IPDS printing, the printer must be PCL5 compatible.

15 Notices

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