Online Links to important Internet Resources:

Free Guarantee Extention: http://www.seh-technology.com/guarantee
Support Contacts and Informationen: http://www.seh-technology.com/support
Sales Contact and Informationen: http://www.seh-technology.com/sales
# Table of Contents

1 Information ....................................................... 5
   1.1 ... about the Documentation .............................. 6
   1.2 ... about Support and Current Services ................. 8
   1.3 ... about Your Safety .................................. 9
   1.4 ... about the Printing Methods and Installation Procedures .... 10
   1.5 ... about the Saving of the IP Address in the Print Server .......... 13
   1.6 ... about the Configuration of NetWare Parameters on the Print Server 15

2 Installation in NetWare 6/5/4 in Print Server Mode .......... 17
   2.1 Configuring the Print Server, Printer, and Print Queue ............ 18
   2.2 Setting up the Printer on the Client ........................ 18

3 Installation in NetWare 3 in Print Server Mode ............. 20
   3.1 Installation of the Print Server on the Novell File Server .......... 21
   3.2 Configuring a Print Queue .................................. 22
   3.3 Assigning the Print Server to the Print Queue .................. 23

4 Installation in NetWare 6/5 in Print Server Mode (Pure IP) . 25
   4.1 Configuring the Print Server, Printer, and Print Queue ............ 26
   4.2 Setting up the Printer on the Client ........................ 28

5 Installation in NetWare 6/5/4 in Remote Printer Mode ....... 29
   5.1 Configuring the Print Server, Printer, and Print Queue ............ 30
   5.2 Configuring the InterCon Print Server ....................... 31
   5.3 Starting PSERVER on the File Server ....................... 33
   5.4 Setting up the Printer on the Client ........................ 33

6 Installation in NetWare 3 in Remote Printer Mode ............ 35
   6.1 Configuring a Print Queue .................................. 36
   6.2 Setting up the Novell PSERVER ............................ 37
   6.3 Installation of the Remote Printer .......................... 37
   6.4 Assigning a Print Queue .................................. 39
   6.5 Configuring the InterCon Print Server ....................... 41
   6.6 Starting PSERVER on the File Server ....................... 42
7 Installation in NetWare 6/5 with NDPS Gateways ............ 43
  7.1 Novell NDPS Gateway: lpr on IP ................................. 44
  7.2 Novell NDPS Gateway: Remote Printer ......................... 48
  7.3 Novell NDPS Gateway: Print Queue-Based ....................... 54
  7.4 KYOCERA NDPS Gateway: Plug and Print ....................... 58
  7.5 KYOCERA NDPS Gateway: lpr on IP ............................... 61
  7.6 KYOCERA NDPS Gateway: Print Queue-Based .................... 64
  7.7 HP NDPS Gateway: IP Printer .................................. 67
  7.8 Setting up the Printer in the Novell Printer Manager ........... 70

8 List of Figures .......................................................... 73
1 Information

This chapter contains information concerning the documentation. You will get information on the available printing methods for the print server and on the described installation procedures.

- ‘... about the Documentation’ ⇒ 6
- ‘... about Support and Current Services’ ⇒ 8
- ‘... about Your Safety’ ⇒ 9
- ‘... about the Printing Methods and Installation Procedures’ ⇒ 10
- ‘... about the Saving of the IP Address in the Print Server’ ⇒ 13
- ‘... about the Configuration of NetWare Parameters on the Print Server’ ⇒ 15
1.1 ... about the Documentation

The print server documentation consists of the following documents:

**User Manual**
Detailed description of the print server installation, configuration, and administration

**Hardware Installation Guide**
Information about security, hardware installation and the initial operation procedure

**Quick Installation Guide**
Information about the software installation of the print server

**Installation Manual**
System-specific instructions for the print server installation in the following systems:
- Windows
- Mac OS
- UNIX
- Novell

* There is no ‘Hardware Installation Guide’ for the Japanese market. The document is integrated into the Japanese version of the ‘Quick Installation Guide’.

This documentation describes the installation of your print server in Novell NetWare systems.
Symbols and Conventions

A variety of symbols are used within this document. Their meaning is listed in the following table:

Table 1: Symbols and conventions used in the documentation

<table>
<thead>
<tr>
<th>Symbol / Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Warning</strong></td>
<td>A warning contains important information that must be heeded. Non-observance may lead to malfunctions.</td>
</tr>
<tr>
<td><strong>Note</strong></td>
<td>A notice contains information that should be heeded.</td>
</tr>
<tr>
<td>📏 Proceed as follows:</td>
<td>The ‘hand’ symbol marks the beginning of instructions. Individual instructions are set in italics.</td>
</tr>
<tr>
<td>1. Mark ...</td>
<td></td>
</tr>
<tr>
<td>🔴 Confirmation</td>
<td>The arrow confirms the consequence of an action.</td>
</tr>
<tr>
<td>✅ Requirements</td>
<td>Hooks mark requirements that must be met before you can begin the action.</td>
</tr>
<tr>
<td>☐ Option</td>
<td>A square marks procedures and options that you can choose.</td>
</tr>
<tr>
<td>•</td>
<td>Eye-catchers mark lists.</td>
</tr>
<tr>
<td>📜</td>
<td>This sign indicates the summary of a chapter.</td>
</tr>
<tr>
<td>⇨</td>
<td>The arrow marks a reference to a page within this document. In the PDF file, you can jump to this page by clicking the symbol.</td>
</tr>
<tr>
<td><strong>Bold</strong></td>
<td>Established terms (of buttons or menu items, for example) are set in bold.</td>
</tr>
<tr>
<td><strong>Courier</strong></td>
<td>Command lines are set in Courier font.</td>
</tr>
<tr>
<td>‘Proper names’</td>
<td>Proper names are put in inverted commas.</td>
</tr>
</tbody>
</table>
This documentation has been designed as an electronic document for screen use. Many programs (e.g. Adobe Reader) offer a bookmark navigation feature that allows you to view the entire document structure.

This document contains hyperlinks to the associated information units. If you want to print this documentation, we recommend using the printer setting ‘Duplex’ or ‘Booklet’.

1.2 ... about Support and Current Services

If questions remain, please contact our hotline. SEH Computertechnik offers extensive support and user training sessions.

Monday through Thursday from 8:00 a.m. to 5:45 p.m. and from 8:00 a.m. to 4:15 p.m. (CET)
+49 (0)521 94226-44
support@seh.de

The following services can be found on the SEH website at www.seh.de.

- current firmware
- current tools
- current documentation
- current product information
- product data sheet
- FAQ
- and much more
1.3 ... about Your Safety

Read and observe all safety regulations and warnings found in the documentation, on the device and on the packaging. This will avoid potential misuse and prevent damages to people and devices.

SEH Computertechnik GmbH will not accept any liability for personal injuries, property damages and consequential damages resulting from the non-observance of the mentioned safety regulations and warnings. Non-observance will result in the warranty claims becoming void.

Intended Use

Print servers are network interfaces for printers. They are designed for the direct integration of printers into networks. The print server has been designed for use in office environments.

Improper Use

All uses of the device that do not comply with the print server functionalities described in the documentation are regarded as improper uses. It is not allowed to make modifications to the hardware and software or to try to repair the device.

Safety Regulations

Before starting the initial operation procedure of the print server, please note the safety regulations in the ‘Hardware Installation Guide’. The Hardware Installation Guide is enclosed in the packaging.

Warnings

Read and observe all warnings mentioned in this document. Warnings are found before any instructions known to be dangerous. They are presented as follows:

---

Warning!
### 1.4 ... about the Printing Methods and Installation Procedures

Depending on the selected print modes, the print server can be integrated into the various Novell NetWare systems.

The following happens when printing in Novell networks: Print data that is transferred from an application to a printer interface (such as LPT1) is rerouted to the NetWare file server. The incoming print job is temporarily stored in a print queue on the file server. The print job is then routed either to a print server connected to the printer or to a remote printer, where it is then printed out.

The IPX protocol is used as a network protocol in all Novell networks. The IPX protocol must be installed on every client which is to provide printing services. If remote printing is selected, the SPX protocol is then used as the network protocol between the file server and the print server.

The Novell name can be used instead of the default print server name. You can use the Novell name whenever a print server needs a meaningful name, instead of ICxxxxxx. For information on how to configure the Novell name, see: \[\Rightarrow 15\].

Your print server can be installed in Novell networks in various print modes.

- Print Server Mode
- Remote Printer Mode
- Printing via NDPS Gateways

The modes will be described in the following.
**Print Server Mode**

In the print server mode, the print server carries out an automatic recognition of the network structure. After turning on, the print server sends broadcast data packets containing the Novell frame types IEEE 802.2, IEEE 802.3, ETHERNET II, and SNAP to the network.

This gives the print server a general overview of the existing bindery and NDS servers as well as the installed print queues. The print server logs on accordingly. The search for servers at regular intervals ensures that changes to the network structure will be automatically recognized.

The print server queries at fixed intervals whether the file servers have print jobs in their respective print queues. If there are print jobs in the print queues, the print server collects the print data and sends it to the printer for processing.

---

In order to configure the time period for the automatic network recognition or for querying the print queue (poll time), see: ☞15.

Every print server in the print server mode requires a Novell NetWare user license. The data throughput during print server mode is comparatively high. The print server can service 16 bindery servers and eight NDS servers (24 NDS servers when bindery is disabled). You can install and assign up to a total of 16 print queues to a print server.

**Remote Printer Mode**

In remote printer mode, a Novell print server must be started on the Novell file server. This Novell print server is the PSERVER.NLM module.

In remote printer mode the print jobs are routed from the PSERVER to the InterCon print server. The InterCon print server adopts the function of the NPRINT in NetWare 6/5/4 networks. The print server sends status information (such as Paper empty) to the PSERVER.

If the PSERVER receives print jobs from the client, the print jobs are transferred to the InterCon print server.
In remote printer mode, the print server does not need a Novell NetWare user license. The InterCon print server requires comparatively fewer resources in the remote printer mode and does not overload the network. PSERVER can administer a maximum of 256 print servers in Novell NetWare 4 networks while in remote printer mode.

**NDPS Gateways**

The NDPS Gateway functions as an interface between print server and the Novell client and administers the printer agent. The advantages of using NDPS Gateways are the automatic installation of drivers and the improved monitoring of the various printer states.

The table gives an overview of the described installation procedures.

<table>
<thead>
<tr>
<th>Novell NetWare System</th>
<th>Print Server Mode</th>
<th>Print Server Mode (Pure IP)</th>
<th>Remote Printer Mode</th>
<th>NDPS Gateway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novell NetWare 6</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Novell NetWare 5</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Novell NetWare 4</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Novell NetWare 3</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 'Installation in NetWare 6/5/4 in Print Server Mode' ⇒ §17
- 'Installation in NetWare 3 in Print Server Mode' ⇒ §20
- 'Installation in NetWare 6/5 in Print Server Mode (Pure IP)' ⇒ §25
- 'Installation in NetWare 6/5/4 in Remote Printer Mode' ⇒ §29
- 'Installation in NetWare 3 in Remote Printer Mode' ⇒ §35
- 'Installation in NetWare 6/5 with NDPS Gateways' ⇒ §43
1.5  ... about the Saving of the IP Address in the Print Server

TCP/IP network protocols require the storing of the IP address in the print server so that the device can be addressed within the network.

An IP address is used to address network devices in an IP network. Depending on the network type the print server can also be addressed via alternative parameters such as the host name, the print server name, or the IPX address.

SEH print servers are shipped without an IP address. The print server is able to assign itself an IP address during the initial installation. Boot protocols are used to assign an IP address automatically to the print server. Upon delivery, the boot protocols 'BOOTP', 'DHCP', and 'ZeroConf' are enabled.

Once the print server is connected to the network, it checks whether an IP address can be obtained from the boot protocol BOOTP or DHCP. If this is not the case, the print server assigns itself an IP address via ZeroConf from the address range 169.254.0.0/16, which is reserved for ZeroConf.

Once the print server has automatically received an IP address via a boot protocol, you can save a freely definable IP address in the print server. The print server supports many different methods for the assignment of the IP address.

The following section describes the recommended method for saving the IP address via the IP Wizard of the InterCon-NetTool. Additional methods can be found in print server user manual.
Saving the IP Address via the IP Wizard (InterCon-NetTool)

You can easily enter the desired IP address and save it in the print server using the IP Wizard of the InterCon-NetTool. The IP Wizard helps you to configure the TCP/IP parameters, e.g. the IP address.

- The InterCon-NetTool is installed on the client.
- By means of the InterCon-NetTool you can scan the network via Multicast, see: Print Server User Manual.
- The router in the network forwards multicast requests.

Proceed as follows:
1. Start the InterCon-NetTool.
2. Select the print server from the print server list.
   The print server is displayed in the print server list under 'ZeroConf' with an IP address from the address range 169.254.0.0/16, which is reserved for ZeroConf.
   The IP Wizard is started.
4. Follow the instructions of the Wizard.
   The settings are saved.
1.6 ... about the Configuration of NetWare Parameters on the Print Server

To use the print server in Novell NetWare environments, you must configure a couple of Novell NetWare parameters such as the Novell name, frame types, and settings for the print server or remote printer mode.

Proceed as follows:
1. Start the Print Server Homepage or start the InterCon-NetTool and double-click the print server in the print server list.
2. Select Configuration – NetWare.
3. Configure the NetWare parameters; see: Table 3.
4. Click Save or OK to confirm.

The settings are saved.

Table 3: Novell NetWare Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Novell</td>
<td>Enables/disables the Novell NetWare support. (IPX Protocol)</td>
</tr>
<tr>
<td>Novell name</td>
<td>Defines the Novell name.</td>
</tr>
<tr>
<td></td>
<td>(The Novell name can be used instead of the default print server name).</td>
</tr>
<tr>
<td>IEEE802.2</td>
<td>Enables/disables the IEEE802.2 frame type.</td>
</tr>
<tr>
<td>IEEE802.3</td>
<td>Enables/disables the IEEE802.3 frame type.</td>
</tr>
<tr>
<td>IEEE802.5</td>
<td>Enables/disables the IEEE802.5 frame type.</td>
</tr>
<tr>
<td>Ethernet II</td>
<td>Enables/disables the Ethernet II frame type.</td>
</tr>
<tr>
<td>SNAP</td>
<td>Enables/disables the SNAP frame type.</td>
</tr>
<tr>
<td>NDS print server mode</td>
<td>Enables/disables the NDS print server mode.</td>
</tr>
<tr>
<td>Bindery print server mode</td>
<td>Enables/disables the Bindery print server mode.</td>
</tr>
<tr>
<td>Remote Print Server Mode</td>
<td>Enables/disables the remote print server mode.</td>
</tr>
</tbody>
</table>
'Pure IP' enables IP-based printing. We recommend choosing 'UDP'. By choosing 'TCP', safe connections will be set, but the load on the print server increases and the print server will become slower. By choosing 'Off', IP-based printing is not possible.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure IP</td>
<td>'Pure IP' enables IP-based printing. We recommend choosing 'UDP'. By choosing 'TCP', safe connections will be set, but the load on the print server increases and the print server will become slower. By choosing 'Off', IP-based printing is not possible.</td>
</tr>
<tr>
<td>Refresh every</td>
<td>Time interval (in seconds) for automatic network recognition</td>
</tr>
<tr>
<td>Poll queues</td>
<td>Polling time of the print queue (in seconds)</td>
</tr>
<tr>
<td>NDS Password</td>
<td>Enables/disables the NDS protocol</td>
</tr>
<tr>
<td>NDS tree</td>
<td>Defines the NDS tree used. During the installation of the print server, automatic network recognition is carried out. In large networks, the print server may thus receive too much data, and software installation may fail. By means of this parameter, you can restrict network recognition to a single tree in the network.</td>
</tr>
<tr>
<td>Bindery Password</td>
<td>Enables/disables the Bindery password</td>
</tr>
<tr>
<td>Bindery Pure IP Server</td>
<td>Name of 1 through 4 Novell file servers</td>
</tr>
<tr>
<td>PSERVER.NLM/.EXE</td>
<td>Name of PSERVER on the file server</td>
</tr>
<tr>
<td>Logical Printer</td>
<td>Logical printer in remote printer mode</td>
</tr>
</tbody>
</table>
2 Installation in NetWare 6/5/4 in Print Server Mode

This chapter describes the installation of your print server in the print server mode in Novell NetWare 6/5/4 networks for NDS printing.

NetWare Wizard

The NetWare Wizard will guide you through an easy installation. The NetWare Wizard helps you to install the print server in the print server mode in NDS and Bindery networks. In a single step, you can install a print server, a printer, and a print queue. The NetWare Wizard can be started via the InterCon-NetTool.

Requirements

☑ The print server is connected and the printer is turned on.
☑ The IPX protocol is installed on every client intended for printing.
☑ A Novell NetWare client is installed on the client.
☑ The InterCon-NetTool is installed on the client.

Procedure

Follow the instructions to carry out the installation:

☐ Configuring the Print Server, Printer, and Print Queue
☐ Setting up the Printer on the Client
2.1 Configuring the Print Server, Printer, and Print Queue

Proceed as follows:
1. Start the InterCon-NetTool.
2. Select the print server from the print server list.
3. Select Installation – NetWare Wizard from the menu bar. The NetWare Wizard is started.
4. Tick NDS Installation.
5. Click Next.
6. Follow the instructions of the NetWare Wizard.
   The settings are saved.

2.2 Setting up the Printer on the Client

A printer must be configured on every client used for printing.

The following description refers to the printer configuration in Windows XP. Depending on your Windows system, the menu navigation and representation can vary.

Proceed as follows:
1. Start the Printers and Faxes dialog on your Windows client. (Start --> Settings --> Printers and Faxes)
2. Select File – Add Printer from the menu bar. The 'Add Printer Wizard' appears.
3. Click Next.
4. Tick A network printer, or a printer attached to another computer.
5. Click Next.
6. Select the relevant print queue.
7. **Click Next** and **follow the instructions of the Add Printer Wizard**.

   The settings are saved.
3 Installation in NetWare 3 in Print Server Mode

This chapter describes the installation of your print server in the print server mode in Novell NetWare 3 networks.

The following entries are required for the installation:

<table>
<thead>
<tr>
<th>PCONSOLE</th>
<th>User input</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Server Name</td>
<td>&lt;name of the InterCon print server&gt; or &lt;Novell name&gt;</td>
<td>IC0001FF</td>
</tr>
<tr>
<td>Print Queue Name</td>
<td>&lt;freely definable name&gt;</td>
<td>MY_QUEUE</td>
</tr>
</tbody>
</table>

- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.
- The print server is connected and the printer is turned on.

Follow the instructions to carry out the installation:

- 'Installation of the Print Server on the Novell File Server' ⇒ 21
- 'Configuring a Print Queue' ⇒ 22
- ‘Assigning the Print Server to the Print Queue’ ⇒ 23
3.1 Installation of the Print Server on the Novell File Server

The InterCon print server must be installed on the Novell file server as print server.

Proceed as follows:
1. Log on as SUPERVISOR.
2. Start PCONSOLE. The following dialog appears:

![Fig. 3: Main menu of PCONSOLE](image)

Proceed as follows:
1. Select Print Server Information. The Print Servers dialog appears.
2. Press INS. The following dialog appears:

![Fig. 4: 'New Print Server Name' window](image)
3. **Enter the print server name or the Novell name into the** New **Print Server Name:** box.
   
   **Syntax:** ICxxxxxxx
   
   **Example:** IC0001FF

4. **Press ENTER to save the changes.**

5. **Press ESC to return to the main menu.**

If you wish to use logical printers, you must install one or more additional print servers by repeating the steps above. Use the print server name and add extensions #1 to #8 to assign it as a logical printer.

**Syntax:** <print server name> + #1 - #8

**Example:** IC0001FF#1

---

Eight logical printers (#1 through #8) are available. If no logical printer is defined, all print data is automatically routed to logical printer #1. For more information, please read the section 'Logical Printers' in the user manual.

### 3.2 Configuring a Print Queue

A print queue must be installed on the file server used for collecting print jobs and routing them to the print server.

---

**Proceed as follows:**

1. **Select Print Queue Information.**
   
   The Print Queues dialog appears.

2. **Press INS. The following dialog appears:**
Installation in NetWare 3 in Print Server Mode

3. Enter an arbitrary name into the New Print Queue Name: window. Example: MY_QUEUE
4. Press ENTER to save the changes.
5. Press ESC to return to the main menu.

3.3 Assigning the Print Server to the Print Queue

The print server must be assigned to the print queue (queue server).

Proceed as follows:
1. Select a new print queue.
2. Press ENTER. The following dialog appears:

3. Select Queue Servers.
4. Press ENTER. The Queue Servers dialog appears.
5. Press INS. The following dialog appears:
6. Select the print server name and, if necessary, another print server.

7. Press ENTER. The following dialog appears:

8. Press ESC repeatedly to close PCONSOLE.
4 Installation in NetWare 6/5 in Print Server Mode (Pure IP)

This chapter describes the installation of your print server in the print server mode in IP-based Novell NetWare 6/5 networks (Pure IP) for NDS printing.

Quick Setup in the NetWare Administrator enables easy installation. In a single step, you can install a print server, a printer, and a print queue.

The following entries are required for the installation:

<table>
<thead>
<tr>
<th>NetWare Administrator</th>
<th>User input</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Server Name</td>
<td>&lt;name of the InterCon print server&gt; or &lt;Novell name&gt;</td>
<td>IC0001FF</td>
</tr>
<tr>
<td>Printer Name</td>
<td>&lt;Printer name&gt; &lt;Logical Printer&gt; (#1 - #8)</td>
<td>MY_PRINTER#1</td>
</tr>
<tr>
<td>Queue Name</td>
<td>&lt;freely definable name&gt;</td>
<td>MY_QUEUE</td>
</tr>
</tbody>
</table>

☑ The print server is connected and the printer is turned on.
☑ IP has been set up on the Novell file server.
☑ A Novell NetWare client with IP support is installed on every client intended for printing.
☑ The print server is known to the network via its IP address, see: ⇒ 13.
☑ The print server parameter 'Pure IP' has been activated, see: ⇒ 15.

Follow the instructions to carry out the installation:
☐ Configuring the Print Server, Printer, and Print Queue
☐ Setting up the Printer on the Client
4.1 Configuring the Print Server, Printer, and Print Queue

Proceed as follows:
1. Start the NetWare Administrator. The following dialog appears:

   ![Fig. 9: NetWare Administrator](image)

   Fig. 9: NetWare Administrator

2. Mark the context.
3. Select the Print Services Quick Setup (Non-NDPS) menu item in the Tools menu. The following dialog appears:

   ![Fig. 10: Print Services Quick Setup (Non-NDPS)](image)

   Fig. 10: Print Services Quick Setup (Non-NDPS)
4. Enter the print server name or the Novell name into the Print Server name: box.
   Syntax: IClxxxxxxxx
   Example: IC0001FF

5. Enter an arbitrary name and a logical printer into the Printer Name box.
   Syntax: <printer name><logical printer>
   Example: MY_PRINTER#1
   Eight logical printers (#1 through #8) are available. If no logical printer is defined, all print data is automatically routed to logical printer #1. For more information, please read the section 'Logical Printers' in the user manual.

6. Enter a freely definable name in the Print Queue Name box.
   (Example: MY_QUEUE)

7. If necessary, select the correct volume.

8. Click Create.
   The data is saved.
4.2 Setting up the Printer on the Client

A printer must be configured on every client used for printing.

The following description refers to the printer configuration in Windows XP. Depending on your Windows system, the menu navigation and representation can vary.

Proceed as follows:

1. Start the Printers and Faxes dialog on your Windows client. (Start --> Settings --> Printers and Faxes)
2. Select File – Add Printer from the menu bar. The ‘Add Printer Wizard’ appears.
3. Click Next.
4. Tick A network printer, or a printer attached to another computer.
5. Click Next.
6. Select the relevant print queue.
7. Click Next and follow the instructions of the Add Printer Wizard.

The settings are saved.
Quick Setup in the NetWare Administrator enables easy installation. In a single step, you can install a print server, a printer, and a print queue.

The following entries are required for the installation:

<table>
<thead>
<tr>
<th>NetWare Administrator</th>
<th>User input</th>
<th>Example in the text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Server Name</td>
<td>&lt;name of PSERVER.NLM&gt; on the file server</td>
<td>MY_PRINT_SERVER</td>
</tr>
<tr>
<td>Printer Name</td>
<td>&lt;name of the InterCon print server&gt; or &lt;Novell name&gt;</td>
<td>IC0001FF</td>
</tr>
<tr>
<td>Queue Name</td>
<td>&lt;freely definable name&gt;</td>
<td>MY_QUEUE</td>
</tr>
</tbody>
</table>

- The print server is connected and the printer is turned on.
- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.

Follow the instructions to carry out the installation:

- Configuring the Print Server, Printer, and Print Queue
- Configuring the InterCon Print Server
- Starting PSERVER on the File Server
- Setting up the Printer on the Client
5.1 Configuring the Print Server, Printer, and Print Queue

Proceed as follows:

1. **Start the NetWare Administrator. The following dialog appears:**

![NetWare Administrator](image1)

**Fig. 13: NetWare Administrator**

2. **Mark the context.**

3. **Select the Print Services Quick Setup (Non-NDPS) menu item in the Tools menu. The following dialog appears:**

![Print Services Quick Setup (Non-NDPS)](image2)

**Fig. 14: Print Services Quick Setup (Non-NDPS)**
4. **Enter a freely definable name into the Print Server name box.**
5. **Enter the name of the print server into the Printer Name box.**
   *(Example: MY_PRINT_SERVER)*
   **Syntax:** ICxxxxxxx
   **Example:** IC0001FF
6. **Enter a freely definable name in the Print Queue Name box.**
   *(Example: MY_QUEUE)*
7. **If necessary, select the correct volume.**
8. **Click Create.**
   - The data is saved.

---

5.2 **Configuring the InterCon Print Server**

The name of the print server must be configured on the InterCon print server, so that status messages can be transferred from the print server to the file server.

---

This section describes the configuration via the InterCon-NetTool. For information about additional administration methods, refer to the print server user manual.
Proceed as follows:

1. Start the InterCon-NetTool.
2. Double-click the print server in the print server list. The Properties dialog appears.
3. Select Configuration – NetWare from the navigation bar.
4. Select the Remote printer mode tab. The following dialog appears:

![Properties dialog](image)

Fig. 16: InterCon-NetTool - Properties

5. Enter the name of the print server into the PSERVER.NLM/.EXE box. (Example: MY_PRINT_SERVER)
6. Select a logical printer from the Logical printer box, if necessary.
   Eight logical printers are available. With print server models with several physical ports, the logical printer is also used to address the port. For more information, please read the section ‘Logical Printers’ in the user manual.
7. Click OK to confirm.
   The settings are saved.
5.3 Starting PSERVER on the File Server

The Novell print server must be set up on the file server in the PSERVER module in order to transfer the print data from PSERVER to the InterCon print server.

This requires the starting up of the PSERVER module with the previously defined name of the PSERVER.

Proceed as follows:
1. Start PSERVER on the file server with the previously defined PSERVER name.
   - Syntax: LOAD PSERVER <PSERVER name>
   - Example: LOAD PSERVER MY_PRINT_SERVER

5.4 Setting up the Printer on the Client

A printer must be configured on every client used for printing.

The following description refers to the printer configuration in Windows XP. Depending on your Windows system, the menu navigation and representation can vary.

Proceed as follows:
1. Start the Printers and Faxes dialog on your Windows client.
   (Start --> Settings --> Printers and Faxes)
2. Select File – Add Printer from the menu bar. The ‘Add Printer Wizard’ appears.
3. Click Next.
4. Tick A network printer, or a printer attached to another computer.
5. Click Next.
6. Select the relevant print queue.
7. Click **Next** and follow the instructions of the **Add Printer Wizard**.

☐ The settings are saved.
Installation in NetWare 3 in Remote Printer Mode

The following entries are required for the installation:

<table>
<thead>
<tr>
<th>PCONSOLE</th>
<th>User input</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Server Name</td>
<td><code>&lt;name of PSERVER.NLM&gt;</code> or <code>&lt;Novell name&gt;</code></td>
<td>MY_PRINT_SERVER</td>
</tr>
<tr>
<td>Printer Name</td>
<td><code>&lt;name of the InterCon print server&gt;</code> or <code>&lt;Novell name&gt;</code></td>
<td>IC0001FF</td>
</tr>
<tr>
<td>Print Queue Name</td>
<td><code>&lt;freely definable name&gt;</code></td>
<td>MY_QUEUE</td>
</tr>
</tbody>
</table>

- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.
- The print server is connected and the printer is turned on.

Follow the instructions to carry out the installation:
- 'Configuring a Print Queue' ⇒ 36
- 'Setting up the Novell PSERVER' ⇒ 37
- 'Installation of the Remote Printer' ⇒ 37
- 'Assigning a Print Queue' ⇒ 39
- 'Configuring the InterCon Print Server' ⇒ 41
- 'Starting PSERVER on the File Server' ⇒ 42

It is of utmost importance that you follow the steps listed below in the order in which they appear!
6.1 Configuring a Print Queue

A print queue must be set up on the file server.

Proceed as follows:
1. Log on as SUPERVISOR.
2. Start PCONSOLE. The following dialog appears:

   ![Fig. 18: Main menu of PCONSOLE](image)

3. Select Print Queue Information. The Print Queues dialog appears.
4. Press INS. The following dialog appears:

   ![Fig. 19: 'New Print Queue Name' window](image)
5. **Enter an arbitrary name into the New Print Queue Name:**
   Example: MY_QUEUE

6. **Press ENTER to save the changes.**
7. **Press ESC to return to the main menu.**

### 6.2 Setting up the Novell PSERVER

The Novell PSERVER must be set up on the file server.

Proceed as follows:

1. **Select Print Server Information.**
   The **Print Servers** dialog appears.

2. **Press INS.** The following dialog appears:

   ![Fig. 20: 'New Print Server Name' window](image)

3. **Enter a PSERVER name into the New Print Server Name:**
   Example: MY_PRINT_SERVER

4. **Press ENTER to save the changes.**

### 6.3 Installation of the Remote Printer

A remote printer must be set up on the PSERVER. In this case, the remote printer corresponds to the InterCon print server.

Proceed as follows:

1. **Select the new print server.** The following dialog appears:
2. **Select Print Server Configuration.**

    The following dialog appears:

    ![Print Server Information window](image1)

    ![Configured Printers dialog](image2)

    ![Printer configuration dialog](image3)

    **Fig. 21:** 'Print Server Information' window

    **Fig. 22:** 'Configured Printers' dialog

    **Fig. 23:** 'Printer configuration' dialog

3. **Press ENTER. The following dialog appears:**
4. Enter the print server name or the Novell name into the Name: box.
   Syntax: ICxxxxxxx
   Example: IC0001FF
5. Enter <Remote Other/Unknown> into the Type box.
6. Press ESC.
7. Confirm the security query.
8. Press ESC.

6.4 Assigning a Print Queue

The print queue must be assigned to a remote printer.

Proceed as follows:
1. Select the new print server.
   The following dialog appears:

Fig. 24: 'Print Server Information' window

2. Select Print Server Configuration.
   The following dialog appears:

Fig. 25: 'Print Server Configuration Menu' window
3. Select Queues Serviced by Printer.
   The following dialog appears:

   ![Fig. 26: 'Defined Printers' window](image)

   4. Select the new remote printer.
   5. Press ENTER. The following dialog appears:

   ![Fig. 27: 'File Server, Queue, and Priority' window](image)

   6. Press INS. The following dialog appears:

   ![Fig. 28: 'Available Queues' window](image)

   7. Select a new print queue.
   8. Enter the priority of the print queue.
   9. Press ESC repeatedly to close PCONSOLE.
### 6.5 Configuring the InterCon Print Server

The name of the print server must be configured on the InterCon print server, so that status messages can be transferred from the print server to the file server.

This section describes the configuration via the InterCon-NetTool. For information about additional administration methods, refer to the print server user manual.

Proceed as follows:

1. **Start the InterCon-NetTool.**
2. **Double-click the print server in the print server list.**
   - The *Properties* dialog appears.
3. **Select Configuration – NetWare from the navigation bar.**
4. **Select the Remote printer mode tab.**
   - The following dialog appears:

   ![Fig. 29: InterCon-NetTool - Properties](image)

   5. **Enter the name of the print server into the PSERVER.NLM/.EXE box. (Example: MY_PRINT_SERVER)**
6. Select a logical printer from the Logical printer box, if necessary.
   Eight logical printers are available. With print server models with several physical
   ports, the logical printer is also used to address the port. For more information,
   please read the section 'Logical Printers' in the user manual.

7. Click OK to confirm.
   The settings are saved.

6.6 Starting PSERVER on the File Server

The Novell print server must be set up on the file server in the
PSERVER module in order to transfer the print data from PSERVER to
the InterCon print server.

This requires the starting up of the PSERVER module with the
previously defined name of the PSERVER.

Proceed as follows:
1. Start PSERVER on the file server with the previously defined
   PSERVER name.
   Syntax: LOAD PSERVER <PSERVER name>
   Example: LOAD PSERVER MY_PRINT_SERVER
The NDPS Gateway functions as an interface between print server and the Novell client and administers the printer agent. The advantages of using NDPS Gateways are the automatic installation of drivers and the improved monitoring of the various printer states. For more information, please read the documentation issued by Novell regarding NDPS.

Follow the instructions to carry out the installation:

☐ Setting up the Printer Agent
☐ Setting up the Printer in the Novell Printer Manager

There are different options involved in the set up of the printer agent:

- 'Novell NDPS Gateway: lpr on IP' ⇒ 44
- 'Novell NDPS Gateway: Remote Printer' ⇒ 48
- 'Novell NDPS Gateway: Print Queue-Based' ⇒ 54
- 'KYOCERA NDPS Gateway: Plug and Print' ⇒ 58
- 'KYOCERA NDPS Gateway: lpr on IP' ⇒ 61
- 'KYOCERA NDPS Gateway: Print Queue-Based' ⇒ 64
- 'HP NDPS Gateway: IP Printer' ⇒ 67

The KYOCERA NDPS gateway cannot be used with external print server models.

After setting up the printer agent, the printer must be configured in the Novell Printer Manager, see: 'Setting up the Printer in the Novell Printer Manager' ⇒ 70.
7.1 Novell NDPS Gateway: lpr on IP

This installation uses TCP/IP (Pure IP) as print protocol. All IPX-based communication is disabled. Status information regarding the Novell NetWare status of the print server is not displayed.

If you are printing via IP, Novell can be turned off on the print server. In this case the network load is reduced.

- The print server is connected and the printer is turned on.
- The print server is known to the network via its IP address, see: ⇒13.
- IP has been set up on the Novell file server.
- NDPS Broker and NDPS Manager have been set up and started.

Proceed as follows:

1. Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears.

Fig. 30: NDPS Manager
2. Click Printer Agent List.  
The following dialog appears:

![Printer Agent List](image)

Fig. 31: Printer Agent List

3. Click New.  
The following dialog appears:

![Create Printer Agent](image)

Fig. 32: Create Printer Agent

4. Enter an arbitrary name in the 'Printer Agent' box.

5. Select the Novell printer gateway from the list of gateway types.
6. **Click OK** to confirm. The following dialog appears:

![Configure Novell PDS for Printer Agent](image)

Fig. 33: Novell PDS for Printer Agent ...

7. **Select the printer from the list which corresponds most closely to your model.**

8. **Click OK** to confirm. The following dialog appears:

![Configure Port Handler for Printer Agent](image)

Fig. 34: Port Handler for Printer Agent

9. **Select Remote (LPR on IP) as your protocol.**
10. Click Next.
   The following dialog appears:

   ![Port Handler for Printer Agent – Enter IP Address]

11. Enter the IP address of the print server into the Host Address box.
12. If necessary, enter a logical printer with lp1 - lp8 into the Printer Name box.

   Eight logical printers (#1 through #8) are available. If no logical printer is defined, all
   print data is automatically routed to logical printer #1. For more information, please read
   the section 'Logical Printers' in the user manual.
13. Click Finish.
   The following dialog appears:

   ![Select Printer Drivers]

   Fig. 35: Port Handler for Printer Agent – Enter IP Address

   Fig. 36: Select Printer Drivers
14. Select the tab for your operating system.
15. Select the printer driver for your printer.
16. Click Next.
17. Click OK to confirm.

### 7.2 Novell NDPS Gateway: Remote Printer

Note that the Novell name, the remote printer name (name of the PSERVER.NLM), the printer agent name and the SAP name must correspond!

<table>
<thead>
<tr>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ The print server is connected and the printer is turned on.</td>
</tr>
<tr>
<td>✓ NDPS Broker and NDPS Manager have been set up and started.</td>
</tr>
<tr>
<td>✓ The IPX protocol is installed on every client intended for printing.</td>
</tr>
<tr>
<td>✓ A Novell NetWare client is installed on the client.</td>
</tr>
</tbody>
</table>

### Procedure

Follow the instructions to carry out the installation:

- Setting up the Printer Agent
- Configuring the InterCon Print Server
- Starting PSERVER on the File Server

**Setting up the Printer Agent**

Proceed as follows:

1. *Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears, see: Fig. 30 ➥ 44.*
2. *Click Printer Agent List.
   The following dialog appears:*
3. **Click New.**

   The following dialog appears:

4. **Enter the print server name or Novell name in the Printer Agent Name (PA-Printer Agent) box.**

   - **Syntax:** ICxxxxxxx
   - **Example:** IC0001FF
5. Select the Novell printer gateway from the list of gateway types.
6. Click OK to confirm. The following dialog appears:

![Configure Novell PDS for Printer Agent](image)

Fig. 39: Novell PDS for Printer Agent...

7. Select the printer from the list which corresponds most closely to your model.
8. Click OK to confirm. The following dialog appears:

![Configure Port Handler for Printer Agent](image)

Fig. 40: Port Handler for Printer Agent
9. **Select Remote (rprinter on IPX) as your protocol.**

10. **Select Other as port type.**

11. **Click Next.**
   
   **The following dialog appears:**

   ![Port Handler for Printer Agent - Check SAP Name](image)

   **Fig. 41: Port Handler for Printer Agent - Check SAP Name**

12. **Check whether the SAP name corresponds to the printer agent name.**

13. **Click Finish.**
   
   **The following dialog appears:**

   ![Select Printer Drivers](image)

   **Fig. 42: Select Printer Drivers**
Installation in NetWare 6/5 with NDPS Gateways

14. Select the tab for your operating system.
15. Select the printer driver for your printer.
16. Click Continue.
17. Click OK to confirm.

Configuring the InterCon Print Server

The name of the print server must be configured on the InterCon print server, so that status messages can be transferred from the print server to the file server.

This section describes the configuration via the InterCon-NetTool. For information about additional administration methods, refer to the user manual.

Proceed as follows:
1. Start the InterCon-NetTool.
2. Double-click the print server in the print server list.
3. Select Configuration – NetWare from the navigation bar.
4. Select the Remote printer mode tab.
   The following dialog appears:

![Fig. 43: InterCon-NetTool - Properties](image)
5. Enter the name of the print server into the PSERVER.NLM/.EXE box. (Example: IC0001FF)

6. Select a logical printer from the Logical printer box, if necessary.
   Eight logical printers are available. With print server models with several physical ports, the logical printer is also used to address the port. For more information, please read the section ‘Logical Printers’ in the user manual.

7. Click OK to confirm.
   The settings are saved.

Starting PSERVER on the File Server

The Novell print server must be set up on the file server in the PSERVER module in order to transfer the print data from PSERVER to the InterCon print server.

This requires the starting up of the PSERVER module with the previously defined name of the PSERVER.

Proceed as follows:

1. Start PSERVER on the file server with the previously defined PSERVER name.
   Syntax: LOAD PSERVER <PSERVER name>
   Example: LOAD PSERVER IC0001FF
7.3 Novell NDPS Gateway: Print Queue-Based

If the print server is password-protected, this password will be demanded during the installation routine. The following description includes this password demand. If no password has been assigned, you can skip the respective passages.

The installation of the print server for IP-based (Pure IP) or IPX-based printing does not differ. Only different requirements have to be met.

- The print server is connected and the printer is turned on.
- NDPS Broker and NDPS Manager have been set up and started.
- IP has been set up on the Novell file server.
- A Novell NetWare client with IP support is installed on every client intended for printing.
- The print server is known to the network via its IP address, see: \(\Rightarrow 13\).
- The print server parameter 'Pure IP' has been activated, see: \(\Rightarrow 15\).
- The print server is set up in the print server mode, see: 'Installation in NetWare 6/5/4 in Print Server Mode' \(\Rightarrow 17\).

- The print server is connected and the printer is turned on.
- NDPS Broker and NDPS Manager have been set up and started.
- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.
- The print server is set up in the print server mode, see: 'Installation in NetWare 6/5/4 in Print Server Mode' \(\Rightarrow 17\).
Proceed as follows:

1. Start RCONSOLE.
2. Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears, see: Fig. 30 44.
3. Click Printer Agent List. The following dialog appears:

![Printer Agent List](image)

Fig. 44: Printer Agent List

4. Click New. The following dialog appears:
5. Enter an arbitrary name in the 'Printer Agent' box.

6. Select the Novell printer gateway from the list of gateway types.

7. Click OK to confirm. The following dialog appears:

8. Select the printer from the list which corresponds most closely to your model.

9. Click OK to confirm. The following dialog appears:
10. **Select Forward Jobs to a Queue as a protocol.**
11. **Click Next.**
   
   The following dialog appears:

---

**Fig. 47: Port Handler for Printer Agent**

**Fig. 48: Port Handler for Printer Agent - Queue**
12. Select the print queue.
13. Select the name of the print queue user.
14. Click Finish.
15. Switch to RCONSOLE.
16. Enter the user password.
17. Switch back to the printer agent.
   The following dialog appears:

![Select Printer Drivers](Fig. 49: Select Printer Drivers)

18. Select the tab for your operating system.
19. Select the printer driver for your printer.
20. Click Continue.
21. Click OK to confirm.

### 7.4 KYOCERA NDPS Gateway: Plug and Print

The KYOCERA NDPS gateway cannot be used with external print server models.

Plug and Print (kypnp) is a function of KYOCERA NDPS Gateways, which enables the automatic print configuration of a printer.
connected to the network. Plug and Print finds all supported KYOCERA printers and creates public printer agents.

If desired, printer agents with public access can be converted to printer agents with controlled access by using NetWare Administrator. You can create IP (lpr-based) as well as IPX (print queue-based) printer agents using the Plug and Print feature.

The IP printer agent to be created is named as follows:
Print server name_<IP address>@IP
IC0001FF 192.168.0.123@IP

If you are printing via IP, Novell can be turned off on the print server. In this case the network load is reduced, but the InterCon–NetTool is no longer available.

When creating an IPX printer agent using the Plug and Print feature, the following occurs:

- A Container Kyo_NDPS containing a print server, a printer and a print queue, is created in the tree of the NetWare Administrator.
- The print server is configured using its name and context and is linked with the objects to be printed.
- The IPX printer agent receives the name of the print server, e.g. IC0001FF.
- Print jobs sent to the printer agent are transferred to the print queue.

Plug and Print deletes all print queues of existing printers / print servers and links the newly created print queue to all detected printers. Network segments can be filtered via the module kycon and thus excluded from this selection. Therefore, Plug and Print is especially suitable for newly created networks or network segments.

For more information, please read the documentation for the KYOCERA NDPS Gateway. You will find it as a *.pdf in the same directory in which the Gateway was installed.
No IPX printer agents will be created for printers which have already been set up in the print server or remote printer (NDS print) modes.

Requirements for the lpr Installation

- The print server is connected and the printer is turned on.
- The print server is known to the network via its IP address, see: ⇒ 13.
- IP has been set up on the Novell file server.
- NDPS Broker and NDPS Manager have been set up and started.

Requirements for the Queue-Based Installation

- The print server is connected and the printer is turned on.
- NDPS Broker and NDPS Manager have been set up and started.
- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.

Proceed as follows:
2. Log into your server.
3. Configure the necessary filters via the kycon.
4. Start kyknpi at the system console:
   - For IP: load kyknpi lpr=1
   - For IPX: load kyknpi
   The printer agent is created.
5. Stop kyknpi: unload kyknpi
7.5 KYOCERA NDPS Gateway: lpr on IP

The KYOCERA NDPS gateway cannot be used with external print server models.

If you are printing via IP, Novell can be turned off on the print server. In this case the network load is reduced, but the InterCon-NetTool is no longer available.

- The print server is connected and the printer is turned on.
- The print server is known to the network via its IP address, see: \(\Rightarrow\) 13.
- IP has been set up on the Novell file server.
- NDPS Broker and NDPS Manager have been set up and started.

Proceed as follows:
1. Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears, see: Fig. 30 \(\Rightarrow\) 44.
2. Click Printer Agent List. The following dialog appears:

Fig. 50: Printer Agent List
3. Click New.
   The following dialog appears:

   ![Create Printer Agent dialog](image)

   Fig. 51: Create Printer Agent

4. Enter an arbitrary name in the 'Printer Agent' box.
5. Select the KYOCERA NDPS Gateway from the list of gateway types.
6. Click OK to confirm. The following dialog appears:

   ![KYOCERA NDPS Gateway Configuration](image)

   Fig. 52: KYOCERA NDPS Gateway Configuration

7. Select LPR on IP as your protocol.
8. Click Next.
   The following dialog appears:
9. Enter the IP address of the print server in the IP Address box.
10. Click Finish.
11. Click OK to confirm. The following dialog appears:

12. Select the tab for your operating system.
13. Select the printer driver for your printer.
14. Click Continue.
15. Click OK to confirm.
7.6 KYOCERA NDPS Gateway: Print Queue-Based

The KYOCERA NDPS gateway cannot be used with external print server models.

IP-based printing (Pure IP) is not supported by the KYOCERA NDPS Gateway for this installation.

- The print server is connected and the printer is turned on.
- NDPS Broker and NDPS Manager have been set up and started.
- The IPX protocol is installed on every client intended for printing.
- A Novell NetWare client is installed on the client.

Proceed as follows:

1. Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears, see: Fig. 30 ⇒ 44.
2. Click Printer Agent List.
   The following dialog appears:

   ![Printer Agent List](image)

   Fig. 55: Printer Agent List
3. Click New. The following dialog appears:

![Create Printer Agent dialog](image)

Fig. 56: Create Printer Agent

4. Enter the print server name or Novell name in the Printer Agent Name (PA-Printer Agent) box.
   - Syntax: ICxxxxxxx
   - Example: IC0001FF

5. Select the KYOCERA NDPS Gateway from the list of gateway types.

6. Click OK to confirm. The following dialog appears:

![KYOCERA NDPS Gateway Configuration dialog](image)

Fig. 57: KYOCERA NDPS Gateway Configuration

7. Select Queue based (NDS Printer Agent).

8. Click Next.
   - The following dialog appears:
9. Select the print server in the list Advertising Print Server.
10. Click Finish.
   The following dialog appears:

11. Select the tab for your operating system.
12. Select the printer driver for your printer.
13. Click Continue.
14. Click OK to confirm.

7.7 HP NDPS Gateway: IP Printer

Only the TCP/IP Ports 9100, 9101 and 9102 can be used with the NDPS Gateway. The default printer port is the TCP/IP Port 9100. During installation, the TCP/IP Port is entered as the port number. 1 stands for 9101, 2 stands for 9101, and 3 for 9102. With external print server models, the ports are addressed as well.

- The print server is connected and the printer is turned on.
- The print server is known to the network via its IP address, see: §13.
- NDPS Broker and NDPS Manager have been set up and started.

Proceed as follows:

1. Double-click the NDPS Manager in the NetWare Administrator tree. The NDPS Manager dialog appears, see: Fig. 30 §44.
2. Click Printer Agent List. The following dialog appears:
3. **Click New.**  
*The following dialog appears:*

![Create Printer Agent](image)

**Fig. 61: Create Printer Agent**

4. **Enter an arbitrary name in the 'Printer Agent' box.**
5. **Select the Hewlett-Packard IP/IPX Printer Gateway from the list of gateway types.**
6. **Click OK to confirm. The following dialog appears:**
7. Select your printer in the Printer type box.
8. Tick IP Printer.
9. Enter the IP address of the print server in the Specify Address box.
10. If necessary, select a logical printer in the Port box.
   When indicating 1, the TCP/IP Port 9100 is used to print. 2 stands for 9101, and 3 for 9102. With external print server models, the ports are addressed as well.
11. Click OK to confirm. The following dialog appears:
Installation in NetWare 6/5 with NDPS Gateways

12. Select the tab for your operating system.
13. Select the printer driver for your printer.
14. Click **Continue**.
15. Click **OK** to confirm.

### 7.8 Setting up the Printer in the Novell Printer Manager

Proceed as follows:
1. **Start the Novell Printer Manager.**
   The following dialog appears:
2. Select Printer – New from the menu bar. 
   The following dialog appears:

![Novell Printers](image1)

Fig. 65: Novell Printers

3. Click Add.
   The following dialog appears:

![Novell Printers (expanded dialog)](image2)

Fig. 66: Novell Printers (expanded dialog)

4. Select your printer from the Available Printers list.
5. Click Install.
   The following dialog appears:
6. Click OK to confirm.
7. Click Close.

The printer is now installed.
8 List of Figures

InterCon-NetTool - IP Wizard ........................................ 14
Add Printer Wizard – Specify a Printer .......................... 19
Main menu of PCONSOLE .......................................... 21
'New Print Server Name' window ................................ 21
'New Print Queue Name' window .................................. 23
'Print Queue Information' window ................................. 23
'Queue Server Candidates' window ............................... 24
'Queue Servers' window ............................................ 24
NetWare Administrator .............................................. 26
Print Services Quick Setup (Non-NDPS) ......................... 26
Installed print server in print server mode ....................... 27
Add Printer Wizard – Specify a Printer .......................... 28
NetWare Administrator .............................................. 30
Print Services Quick Setup (Non-NDPS) ......................... 30
Installed print server in print server mode ....................... 31
InterCon-NetTool - Properties .................................... 32
Add Printer Wizard – Specify a Printer .......................... 34
Main menu of PCONSOLE .......................................... 36
'New Print Queue Name' window ................................ 36
'New Print Server Name' window ................................ 37
'Print Server Information' window ............................... 38
'Configured Printers' dialog ..................................... 38
'Printer configuration' dialog .................................... 38
'Print Server Information' window ............................... 39
'Print Server Configuration Menu' window .......................... 39
'Defined Printers' window ......................................... 40
'File Server, Queue, and Priority' window ......................... 40
'Available Queues' window ....................................... 40
InterCon-NetTool - Properties .................................... 41
NDPS Manager .......................................................... 44
Printer Agent List .................................................... 45
Create Printer Agent ................................................ 45
Novell PDS for Printer Agent ..................................... 46
Port Handler for Printer Agent .................................... 46
Port Handler for Printer Agent – Enter IP Address ............ 47
Select Printer Drivers .................................................. 47
Printer Agent List ...................................................... 49
Create Printer Agent .................................................. 49
Novell PDS for Printer Agent ........................................ 50
Port Handler for Printer Agent ...................................... 50
Port Handler for Printer Agent – Check SAP Name .......... 51
Select Printer Drivers .................................................. 51
InterCon-NetTool – Properties ..................................... 52
Printer Agent List ...................................................... 55
Create Printer Agent .................................................. 56
Novell PDS for Printer Agent ........................................ 56
Port Handler for Printer Agent ...................................... 57
Port Handler for Printer Agent – Queue ......................... 57
Select Printer Drivers .................................................. 58
Printer Agent List ...................................................... 61
Create Printer Agent .................................................. 62
KYOCERA NDPS Gateway Configuration ....................... 62
KYOCERA NDPS Gateway Configuration – IP Address ...... 63
Select Printer Drivers .................................................. 63
Printer Agent List ...................................................... 64
Create Printer Agent .................................................. 65
KYOCERA NDPS Gateway Configuration ....................... 65
KYOCERA NDPS Gateway: Configure.......................... 66
Select Printer Drivers .................................................. 66
Printer Agent List ...................................................... 68
Create Printer Agent .................................................. 68
HP Gateway for ....................................................... 69
Select Printer Drivers .................................................. 70
Novell Printer Manager ................................................. 70
Novell Printers .......................................................... 71
Novell Printers (expanded dialog) ................................. 71
Novell Printers – Install ............................................... 72