Print Server
Installation in Mac OS 9/8 Systems

Installation Manual
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1 Information

This chapter contains information concerning the documentation, the support and your safety.

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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 Mac OS 9/8 systems.

Information about the print server installation in Mac OS X systems can be obtained from the print server user manual.
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>Warning</td>
<td>A warning contains important information that must be heeded. Non-observance may lead to malfunctions.</td>
</tr>
<tr>
<td>Note</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>Bold</td>
<td>Established terms (of buttons or menu items, for example) are set in bold.</td>
</tr>
<tr>
<td>Courier</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.

Support

Monday through Thursday
Friday
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

Current Services

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 Configuration of Apple Parameters on the Print Server

To use the Apple services, you can configure a couple of Apple parameters such as the Apple name, zone, and the printer type.

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 – Apple.
3. Configure the Apple parameters; see: Table 2 → 9.
4. Click Save or OK to confirm.

The settings are saved.

Table 2: Apple Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AppleTalk</td>
<td>Enables/disables AppleTalk</td>
</tr>
<tr>
<td>Apple name</td>
<td>Apple name, printer name or print server name (Upon delivery, the default name is displayed.)</td>
</tr>
<tr>
<td>Zone</td>
<td>Name of the Apple Zone</td>
</tr>
<tr>
<td>PostScript Encoding</td>
<td>Defines the protocol for printing in the binary mode of external print server models.</td>
</tr>
<tr>
<td>Printer type</td>
<td>Defines the Apple Printer type. You can enter a maximum of 32 characters. (As for print servers with several physical printer ports, each port can have a printer type).</td>
</tr>
<tr>
<td>Bonjour</td>
<td>Enables/disables Bonjour</td>
</tr>
<tr>
<td>Bonjour name</td>
<td>Defines the Bonjour name of the print server. The print server uses this name for its Bonjour services. If no Bonjour name is entered, the default name will be used (printer name@ICxxxxxx). You can enter a maximum of 63 characters. The name must not start with an underscore. (As for print servers with several physical printer ports, each port can have a name).</td>
</tr>
</tbody>
</table>
2 Installation in Mac OS 9/8

This chapter describes the installation of your print server in Mac OS 9/8 systems.

The installation of the print server in Mac OS 9/8 systems is done almost automatically. To configure the print server in Mac OS 9/8, an additional virtual printer with a name expanded by ' _ADM' is installed.

The print server works in AppleTalk networks. Depending on the network type, EtherTalk and TokenTalk are supported.

After the print server is turned on, it initializes. In the process, the print server determines its AppleTalk address. If the print server has already been in use, it uses the last address. If zones are used in your network, the print server will be assigned to the default zone. In a last step, the system will check whether the print server name already exists in the network. If this is the case, the name will be expanded automatically (e.g.: Apple -> Apple_1).

All external print server models support the Adobe protocols TBCP and BCP. These protocols allow you to print in the so-called binary mode with suitable PostScript printers. The relevant protocol can be chosen using the 'PostScript Encoding' parameter; see User Manual. The TBCP protocol is used as default setting.

All print servers support bidirectional communication between the printer and the host. The print server forwards all requests directly to the printer or host, so that a direct communication between the host and the printer is possible.
2.1 Installing the Print Server

Proceed as follows:

1. **Select Chooser on the Apple menu.**

   The following dialog appears:

   ![Chooser](image)

   Fig. 1: Mac OS - Chooser

   As for print servers with several physical printer ports, one print server appears for each port, e.g. IC0001FF_LPT1, IC0001FF_COM1 or IC0001FF_USB1. Each print server must be installed separately by following the steps described in this section.

   Proceed as follows:

   1. **Mark the desired printer driver.**
   2. **Select the corresponding zone, if required.**
   3. **Double-click the print server in the Select a PostScript Printer box.**
2.2 Installing the Virtual Printer

Proceed as follows:
1. Select Chooser on the Apple menu.
2. Select the printer driver 'LaserWriter 8.'
3. Double-click the virtual printer in the 'Select a PostScript Printer' box.
   Example: IC0001FF_ADM
   The following dialog appears:

![Select a PostScript Printer Description File dialog]

4. Click Use Generic.

2.3 Print Server Configuration

After the print server installation, the print server can be configured via a virtual printer. This means that the print server name or the zone might be changed, for example.

In pure Apple networks, the print server can be configured and administered via a text file. This is why in Apple networks every print server additionally appears as virtual printer with a name expanded by '_ADM.'
A text file is sent to this virtual printer as a print job. The print server analyses the text file and reads and saves new parameter values. Afterwards, the print server is restarted automatically. The text file will not be printed, however.

By means of the text file, all parameters which are contained in the 'parameters' configuration file can be set. The User Manual contains an overview of print server parameters.

In Apple networks in which TCP/IP is used, it is advisable to save the IP address on the print server by means of the text file and to then use the print server homepage to configure the print server.

The text file should be created using a simple Editor, such as the "Notepad." The parameter name and its corresponding value are shown in one line of the text file and are separated by an equals sign. The spelling of the parameter name has to correspond to the one in the 'parameters' configuration file. No Apple-specific special characters or equals signs are to be used for the parameter values.

![Fig. 3: Example of a Text File](image)
To administer a print server that is protected by a password, the 'login' parameter and the password have to be indicated at the beginning of the text file.

![Fig. 4: Text file for Password-Protected Print Servers](image)

Deleting a Password

By means of the text file, you can delete a password that was assigned to a print server. To do this, the text file has to contain the following two lines:

![Fig. 5: Deleting a Password](image)

Once again, the 'login' parameter has to be indicated at the beginning of the text file.
3 List of Figures

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<td>12</td>
</tr>
<tr>
<td>Example of a Text File</td>
<td>13</td>
</tr>
<tr>
<td>Text file for Password-Protected Print Servers</td>
<td>14</td>
</tr>
<tr>
<td>Deleting a Password</td>
<td>14</td>
</tr>
</tbody>
</table>