# .print Client WinCE

.print version 7.6 (for Windows CE version 6.0)

# Manual

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## Safety warning

All ThinPrint products are pure software solutions. Please note the safety warnings in the technical documentation from your hardware vendor and from the manufacturer of each device and component.
Before beginning installation, we recommend closing all windows and applications and deactivating any virus scanner.

## How to use this manual

The following conventions are used throughout this manual to represent recurring actions and text types.

### Conventions

| | |
|---|---|
| Note! | Important tip, explanation, exception |
| SMALL CAPS | Menu, command, dialog panel, option |
| *Italic* "Name" | Proper name, emphasis, variable |
| `Courier` | Keyboard input |
| → | Consecutive menu or command |
| ■ | Enumeration, head note |
| Example | Example |
| –<br>1.<br>2. | Procedural steps |
| Page 5<br>www.thinprint.com | Links |

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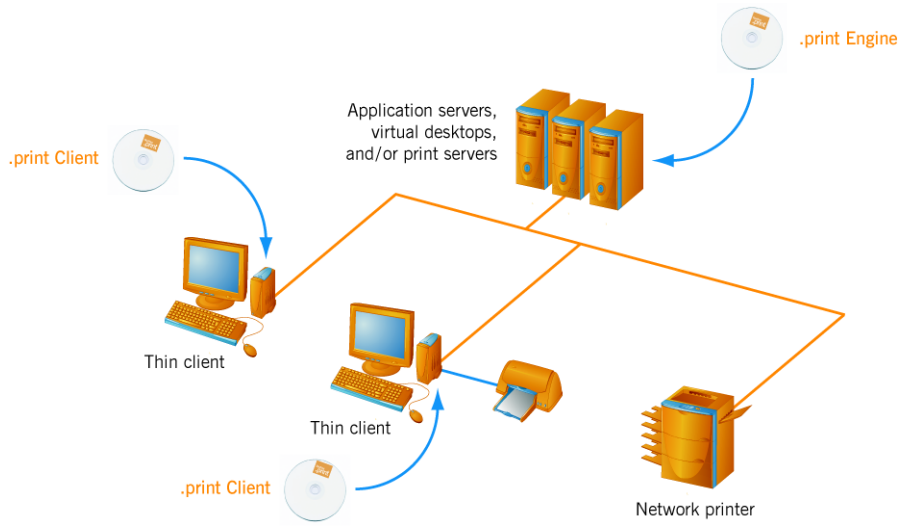
# Overview

ThinPrint .print is a software solution for comfortable print management. It consists of a server and a client component (Illus. 1).




**Illus. 1** Using of ThinPrint .print with server and client components

## Server component

The **.print Engine** is the actual core of the ThinPrint .print framework. It performs the following main functions:

- Bandwidth control of print data
- Compression and streaming of print data
- Printer Virtualization Layer[1]

The .print Engine is an integral part of the following products:

- .print Application Server Engine
- .print Server Engine
- .print RDP Engine[2]
- .print Desktop Engine[2]

For detailed information on software operation see the respective manual (Page 13).

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1 Formerly Driver Free Native Printing
2 RDP version of .print Client WinCE only

## Client component

A software component on the client side, **.print Client**, is responsible for receiving print data, decompressing it, and sending it to the print devices. The following .print Clients are available for Windows CE:

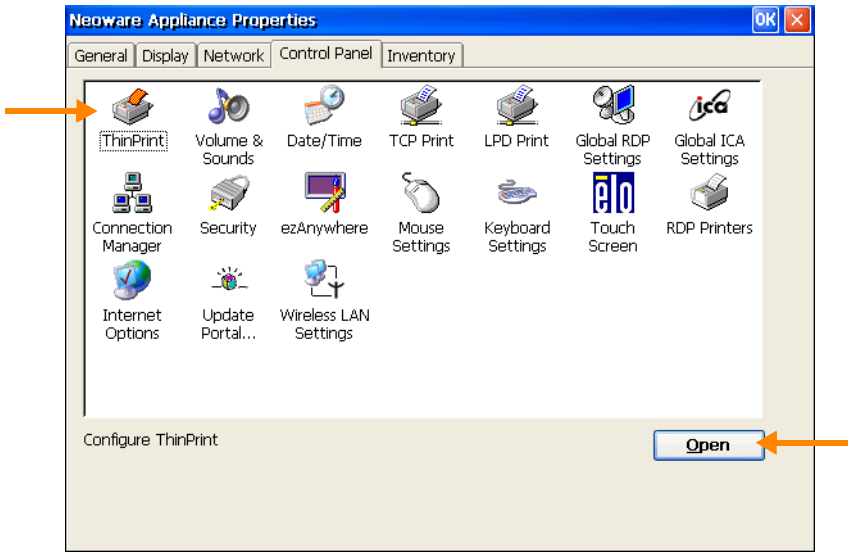
- .print Client WinCE for ICA
- .print Client WinCE for RDP
- .print Client WinCE for TCP/IP

With older thin client models a BIOS update could be necessary to install the .print Client WinCE.

# .print Client configuration

## Enabling and starting .print Client

– Enable .print Client: **either** using its START menu entry **or** by running tpcce.exe (left arrow in Illus. 4) **or** in the device setup as follows:
  - Open the control panel on the thin client[3] and select THINPRINT (click OPEN, Illus. 2).[4]
  - Enable .print Client (ENABLE THINPRINT in Illus. 3).
  - If necessary, select the print protocol: Click TCP/IP or ICA/RDP and confirm with OK.




**Illus. 2** .print Client WinCE in the control panel (example for Neoware terminals)

3 Often with F2 key

4 If you cannot find .print Client or ThinPrint Client in the device setup, please check www.thin-print.com/→ PRODUCTS→ OVERVIEW→ .PRINT SERVER ENGINE→ SUPPORTED ENVIRONMENTS→ SUPPORTED DEVICES to see whether your device is supported by ThinPrint .print.

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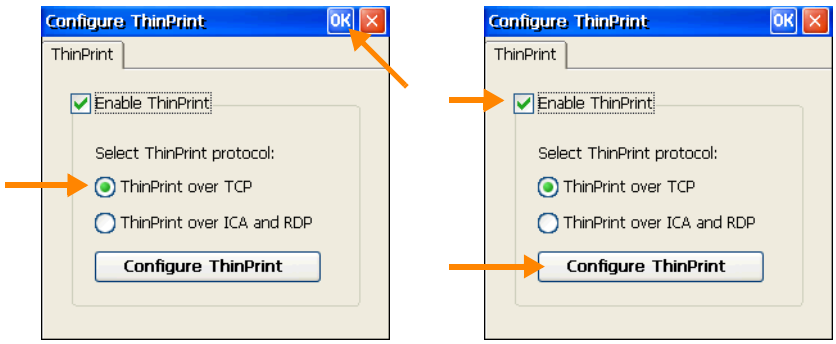
Afterwards the TCP/IP type of .print Client is started. The ICA and RDP type of .print Client starts automatically when an ICA or RDP session is opened.




**Illus. 3** Selecting and enabling .print Client WinCE and opening configuration menu (example for Neoware terminals)

## Configuration

To operate the configuration menu both shortcuts using the Alt key or the Tab key can be used. In the following the mouse operation is described.

– Open the .print Client configuration menu: **either** using its START menu entry **or** by clicking CONFIGURE THINPRINT (Illus. 3) **or** by double clicking its icon in the task bar (right arrow in Illus. 4).

**Illus. 4** Starting .print Client (left arrow) and opening its configuration (right arrow)

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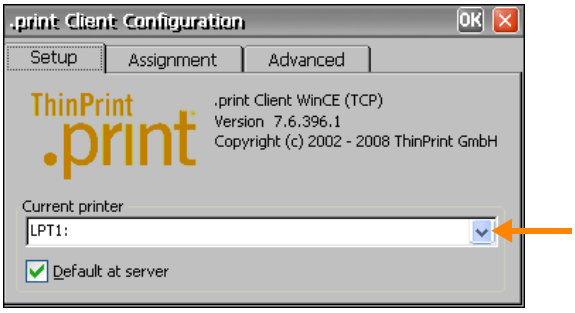
**Note!** Each first call of TCP/IP type (tpcce.exe) starts the .print Client (its icon in the task bar shows the running client, Illus. 4). The second call opens its configuration menu (Illus. 5).

### "Setup" tab

*Current printer*

Select CURRENT PRINTER here (Illus. 5) – the .print default printer; immediately after installation a local printer port will be displayed as the current printer (*LPT1:* in Illus. 5). Print jobs are sent to the current printer if the printer ID can't be determined (e.g., no ID is given in the printer name on the server or a virtual desktop).

When running .print AutoConnect, current printer can also be set at the server or a virtual desktop by checking the option DEFAULT AT SERVER.




**Illus. 5** Selecting the .print default printer

### "Assignment" tab

*Printer names*

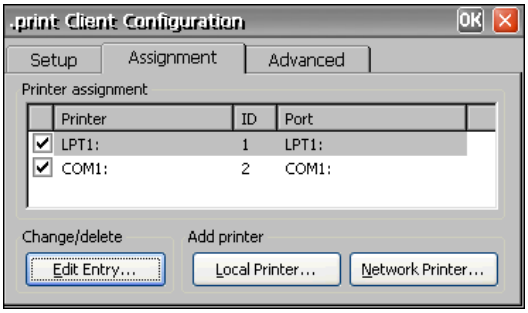
If printer names haven't been edited yet, the printers have the same name as their ports (Illus. 6). Default port names are:

- LPT1:
- COM1:

Changing the printer names is recommended (using EDIT ENTRY, see below).

*Printers and their IDs*

ASSIGNMENT lists available printers with their IDs and ports (Illus. 6).




**Illus. 6** Assignment of printer name, printer ID and printer port

Here you can find printer IDs, which are necessary for creating printers manually on the server or a virtual desktop (see the manual of your .print Engine; Page 13).

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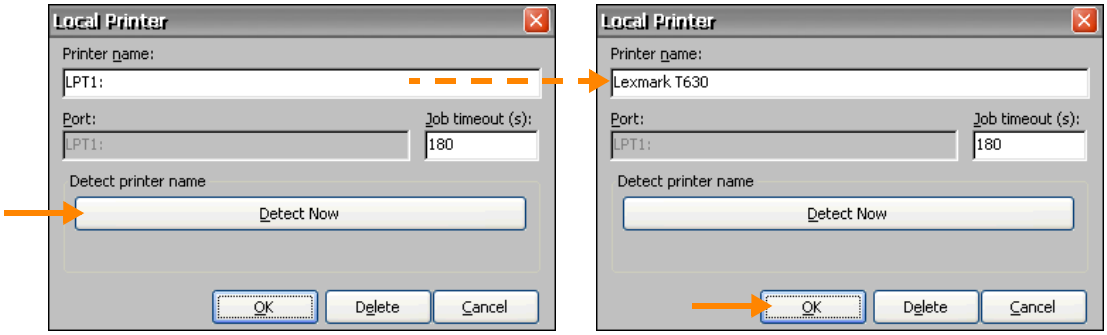
*.print AutoConnect*

It's also possible to select different printers by checking the box next to the printer name. .print AutoConnect will automatically create all selected printers on the server or a virtual desktop – provided templates exist and .print AutoConnect is running on the server or a virtual desktop (auto-created printers). For more information please refer to ".print AutoConnect" in your .print Engine manual; Page 13.

*Editing printer*

Clicking EDIT ENTRY (Illus. 6) opens a panel in which printer names can be changed (Illus. 7); changing the printer name is recommended (here: Lexmark T630).



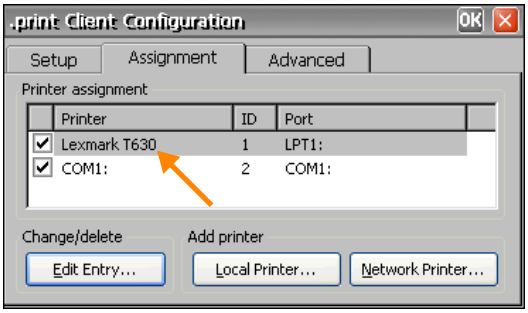

**Illus. 7** Changing printer name

DETECT NOW requests the printer name directly from the printer; this name can be edited by hand afterwards.

> **Note!** The printer name transmission is not supported by all thin client and printer models – in particular USB printers. If the request fails the port name is displayed under PRINTER NAME.

A print job is rejected after the JOB TIMEOUT (in seconds) if a printer doesn't answer.

– Click OK to confirm. The result is shown in Illus. 8.




**Illus. 8** Printer (at parallel port LPT1:) renamed

> **Note!** Did you unplug a printer from one of the USB ports you have to DELETE it from the ASSIGNMENT list afterwards (Illus. 7). Additionally, we recommend to restart the device.

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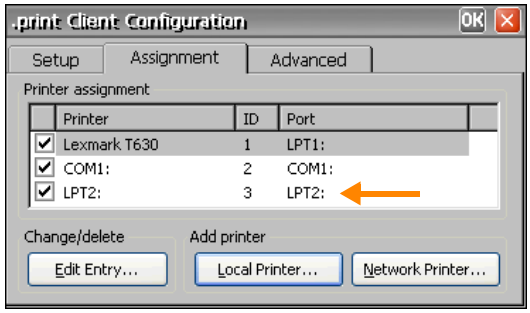
*Creating local printers*

If AUTOMATIC PRINTER AND PORT RECOGNITION is enabled (Illus. 15) new (local attached) printers are detected automatically (PORT LPT2: in Illus. 9). The printer model name is displayed (under PRINTER) if the printer name transmission is supported (see above).

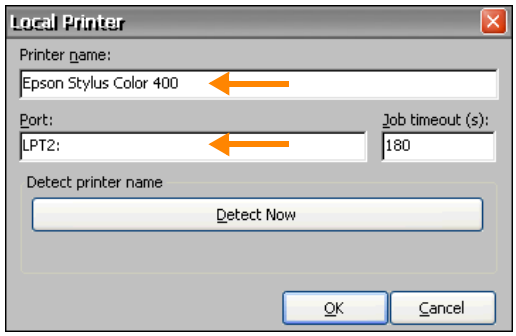
Various thin client manufacturers use different USB port handlings; to distinguish the printers reliably we recommend to plug only one USB printer per device.




**Illus. 9** USB port (here: LPT2:) and printer recognized automatically but without printer name transmission (PRINTER LPT2:)

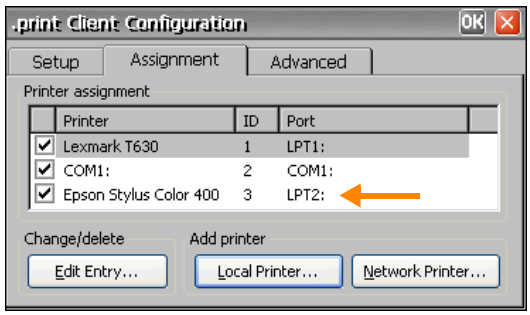
Alternatively you can add local printers and ports by hand. To do so, click LOCAL PRINTER (Illus. 9). Enter a printer name and the printer port (Illus. 10). For the correct port denomination (e.g., LPT2:, LPT3: or COM3: for USB ports or IRDA for an infrared port) see the manual of the respective thin client.

The functions DETECT NOW and JOB TIMEOUT are described above.




**Illus. 10** Adding printer by hand

– Click OK to confirm. The result is shown in Illus. 11.




**Illus. 11** USB port (here: LPT2:) and Epson printer added by hand

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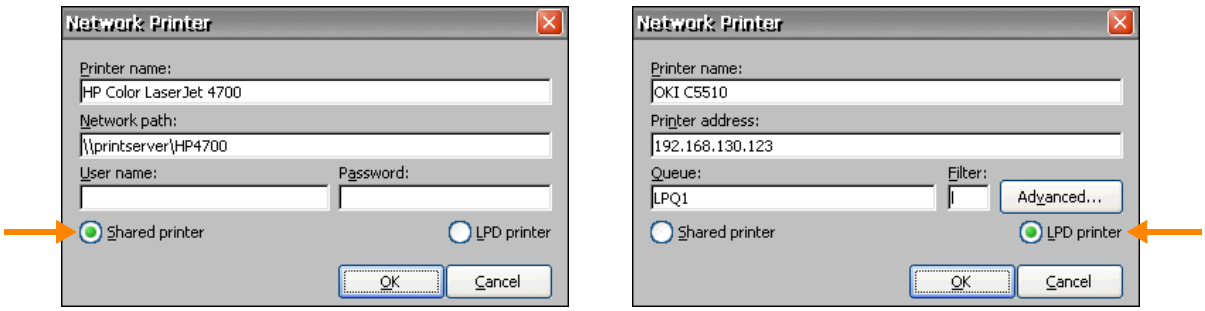
*Creating network printers*

Both LPD devices and printers that are shared on another Windows computer in the network are called network printers. To add a new one click NETWORK PRINTER (Illus. 6); a new window opens.

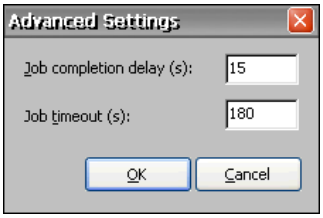
- First, specify whether you want to print with a share (SHARED PRINTER; left in Illus. 12) or to an internal or external print server of a network printer or a Linux queue (LPD PRINTER; right in Illus. 12).
- Next, enter in the top field any PRINTER NAME. Under that, enter the network path to the share or the address of the LPD device (host name or IP address).
- If only certain users are to be allowed to use the share, you must enter a USER NAME and a PASSWORD.
- If you are printing to a print server to which multiple network printers are connected, you must enter the name of the printer QUEUE to identify the specific printers (examples: lp0, LPQ1). Find the queue name in the documentation for your LPD device. For LPD printing see also Page 12.
  It is normally not necessary to enter a FILTER – only if a filter is also used on the server.




**Illus. 12** Adding a network printer: On the left a connection to a Windows share and on the right an LPD device

With the ADVANCED button (Illus. 12) you can configure two time durations (Illus. 13):

| | |
|---|---|
| JOB COMPLETION DELAY | Time (in seconds) the .print Client waits after print job transmission before it sends the job end to the LPD device |
| JOB TIMEOUT | A print job is rejected after the JOB TIMEOUT (in seconds) if the LPD device doesn't answer. |




**Illus. 13** Delay for print job completion and time-out for print job rejection

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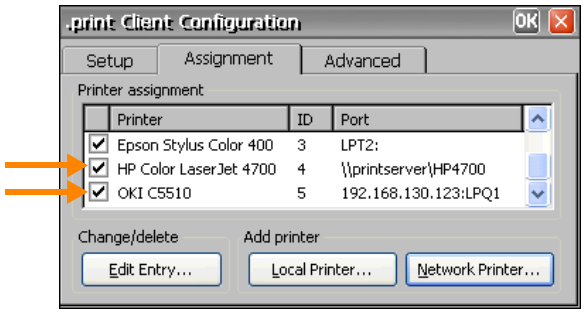
– Click OK to confirm each.
A printer is created with the new name respectively (Illus. 14).




**Illus. 14** Two new network printers added: one connection to a share (ID 4) and one LPD device (ID 5).

**"Advanced" tab**

ADVANCED offers the following settings:

*BANDWIDTH*

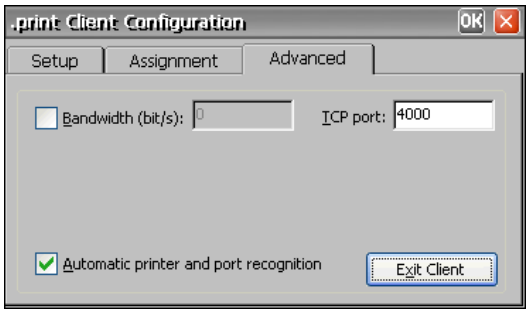
– Enter a bandwidth value which is the same or smaller than that set in .print Engine. If the value is larger or if Client Control is disabled at the server or the virtual desktop, server setting is applied. Enter **0** or disable this function to retain server settings (default: disabled).

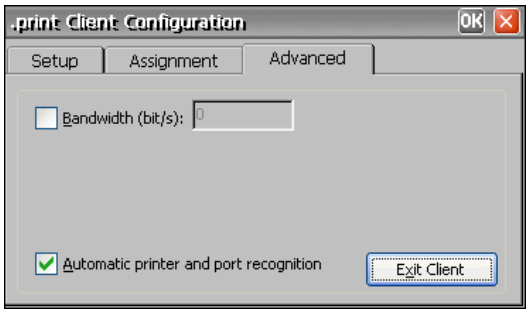
*TCP PORT*

– Enter here the TCP port number where .print Client should receive incoming connections. Be sure that the TCP/IP port number is the same on both .print Client and server-side .print Engine. Otherwise, communication between the two .print components is impossible.
***Note:*** TCP Port number is of course only relevant for printing over TCP/IP with the TCP/IP version of .print Client WinCE (see also Illus. 3). The default port number is 4000.

*AUTOMATIC PRINTER AND PORT RECOGNITION*

See "Creating local printers" (Page 9).




**Illus. 15** ADVANCED tab: On the left in the TCP/IP version of .print Client and on the right in the ICA or RDP version

*OK* Changes are applied without quitting .print Client. Some changes could first be effective after restarting .print Clients.

*Close (☒)* Previous settings remain intact.

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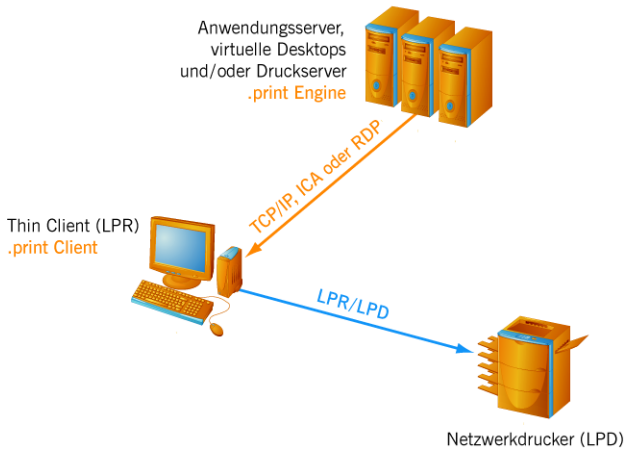
*Exit Client* Quits .print Client. (.print Client must be restarted before ThinPrint .print printing resumes.)

## Preparing .print Engine for LPD printing

Windows CE clients are capable of sending print jobs to LPD devices. The .print Client Win CE is installed on the thin client and can then receive .print print jobs and send them directly to internal or external print servers of network printers. All types of .print Client WinCE support LPD printing.




**Illus. 16** LPD printing via Windows CE clients

**Preparing .print Engine under Windows:**
Various LPD devices expect the job length before accepting a print job. To calculate this the print jobs have to be spooled completely before transmitting to the printer. This can be done on the server (or virtual desktop) as well as on the thin client. We recommend the spooling on the server; to do so ...

- Select TCP/IP, Virtual Channel Protocol (ICA or RDP), or Use Virtual Channel Gateway as print protocol in the .print Engine port configuration (see the respective .print Engine manual).
- Make sure that the printers completely spool the print data on the hard drive before sending. To do so, select General under Printer Properties (Illus. 17).
- Select Start printing after last page is spooled (top arrow).
- Disable the Advanced Printing Features (bottom arrow).

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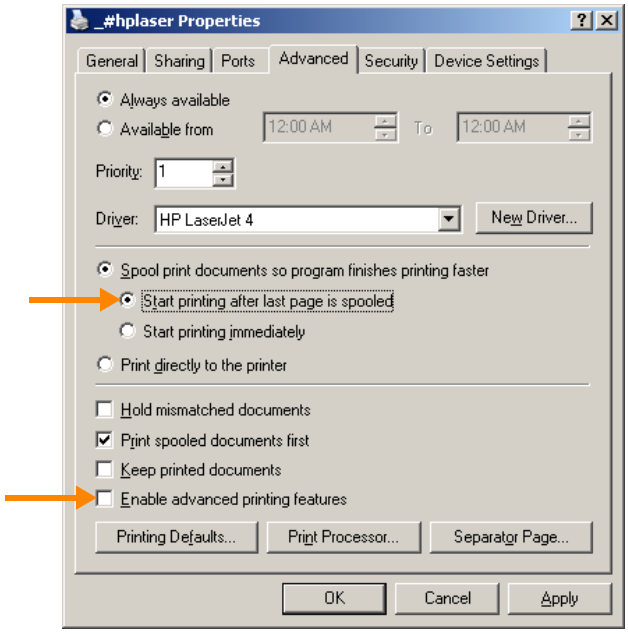


**Illus. 17** Preferences on a Windows server (or virtual desktop) for client-side LPD printing

# Appendix

## Customer service and technical support

*Customer Service* www.thinprint.com/→ SUPPORT
support@thinprint.com

## Additional sources

Further information about ThinPrint .print can be downloaded from our website.

*Manuals* The following manuals (amongst others) are available at www.thinprint.com/→ PRODUCTS→ OVERVIEW→ <product name>.

- .print Application Server Engine
- .print Server Engine
- .print RDP Engine
- .print Desktop Engine
- .print Client user manuals

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*White papers* The following white papers (amongst others) are available at www.thinprint.com/ → PRODUCTS→ OVERVIEW→ <product name> or ...→ SUPPORT→ WHITE PAPER DOWNLOAD.

- Licensing
- .print AutoConnect and .print Virtual Channel Gateway
- Support information

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# .print Clients and supported features

| .print Client<br>+ possible<br>– not possible | Network protocol | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ICA | TCP/IP | RDP | .print AutoConnect | Compression and streaming | Bandwidth control | SSL/TLS encryption | Output Gateway | .print Viewture | Virtual Channel Gateway | Connection Service |
| Windows (TCP/IP)[a] | – | + | – | + | + | + | + | + | + | – | + |
| Windows (ICA) | + | – | – | + | + | + | + | + | + | + | – |
| Windows (RDP)[b] | – | – | + | + | + | + | + | + | + | + | – |
| Service Windows (TCP/IP)[a] | – | + | – | + | + | + | + | + | – | – | + |
| ActiveX Windows (TCP/IP)[a] | – | + | – | + | + | + | + | + | + | – | + |
| Linux (TCP/IP)[a] | – | + | – | + | + | + | + | – | – | – | + |
| Linux (RDP) | – | – | + | + | + | + | + | – | – | + | – |
| Java (TCP/IP)[a] | – | + | – | + | + | + | + | – | – | – | + |
| Java as an applet (ICA) | + | – | – | + | + | + | + | – | – | + | – |
| Win16 (TCP/IP)[a] | – | + | – | + | + | + | – | – | – | – | – |
| Win OS/2 (TCP/IP) | – | + | – | + | + | + | – | – | – | – | – |
| MS-DOS (TCP/IP)[a] | – | + | – | + | + | + | – | – | – | – | – |
| Windows CE (TCP/IP)[a] | – | + | – | + | + | + | – | – | – | – | – |
| Windows CE (ICA) | + | – | – | + | + | + | – | – | – | + | – |
| Windows CE (RDP) | – | – | + | + | + | + | – | – | – | + | – |
| Windows Mobile (TCP/IP)[a] | – | + | – | + | + | + | – | – | – | – | – |
| Windows Mobile (ICA) | + | – | – | + | + | + | – | – | – | – | – |
| Windows Mobile (RDP) | – | – | + | + | + | + | – | – | – | – | – |
| ActiveX Windows Mobile (TCP/IP)[a] | – | + | – | + | + | + | – | – | – | – | + |
| LPD device | – | + | – | – | +[c] | + | – | – | – | – | – |

a Also usable for ICA/RDP sessions, provided a TCP/IP connection exists between server and client
b RDP 5.0 required
c If a decompression filter can be installed

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