

## ThinPrint Client Service Windows

(ThinPrint version 8.6)

# Manual

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**Safety warning**

All Cortado 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.

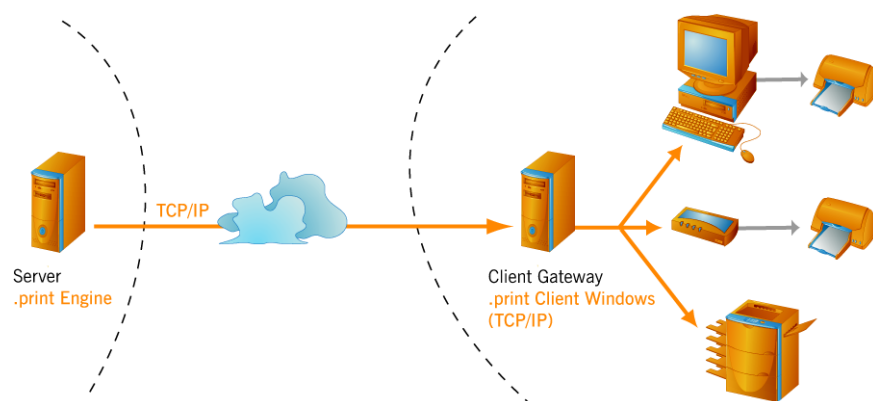
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## Why ThinPrint Client Service Windows?

The ThinPrint Client Service Windows is installed on local print servers where it runs as a Windows Service – in contrast to other ThinPrint Clients which are installed as an application. The local print server with its ThinPrint Client is also called ThinPrint Client Gateway. It can be a real or virtual desktop (Windows XP, Vista, 7) or a server (Windows 2003/2008).

A ThinPrint Client Gateway can greatly simplify the introduction of ThinPrint because it can receive *ThinPrint* print jobs for an entire group of clients and printers, decompress and decrypt them, and then distribute them conventionally in a local network – like a local print server (Illus. 1). Then the ThinPrint Client is only necessary on the Client Gateway for this remote LAN. Otherwise, the ThinPrint Client must be installed on each end device: rich clients, printers, print servers, thin clients, etc. This could mean that with thin clients, for example, a BIOS update is necessary.

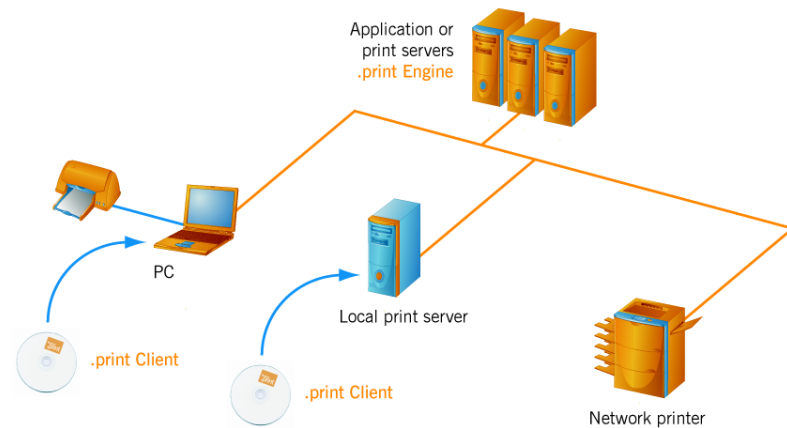
Even mixed environments pose no problem: The ThinPrint Client is installed onto all devices where simple installation is possible, and all others are served by a Client gateway. More information can be found in the white paper “Windows computer as a ThinPrint Client Gateway” ([Page 21](#)).



**Illus. 1** Windows computer as a ThinPrint Client Gateway (example)

## Overview

ThinPrint is a software solution and consists of a server and a client component (Illus. 2).



**Illus. 2** Using of ThinPrint with server and client components

*Server component* The **ThinPrint Engine** is the actual core of the ThinPrint framework. It provides complete printer driver management including Driver Free Printing. The ThinPrint Engine performs the following main functions:

- Bandwidth control, encryption, and compression for print data
- Virtual printer driver ThinPrint Output Gateway  
(replaces printer drivers on printing computers = Driver Free Printing).

*Client component* A software component on the client side, **print Client** is generally responsible for receiving print data, decompressing and decrypting it, and sending it to the print device. Many ThinPrint Clients are available for different end devices and areas of deployment: for all Windows versions incl. Windows CE, for Linux, Solaris, Dos, Win OS/2, and Java, as well as for internal and external print servers for network printers. The following ThinPrint Clients are available for Windows:

- ThinPrint Client Windows for ICA
- ThinPrint Client Windows for RDP
- ThinPrint Client Windows for TCP/IP (as a Windows application)
- ThinPrint Client Service Windows (as a Windows service)

The ThinPrint Client Service Windows uses TCP/IP as print protocol. This Client type differs from the ThinPrint Client for TCP/IP<sup>1</sup> because it is running as a Windows service under Windows XP/2003/Vista/7/2008<sup>2</sup>. This has the advantage that no user must be logged onto the computer running ThinPrint Client Service Windows. No page preview is possible with this ThinPrint Client type.

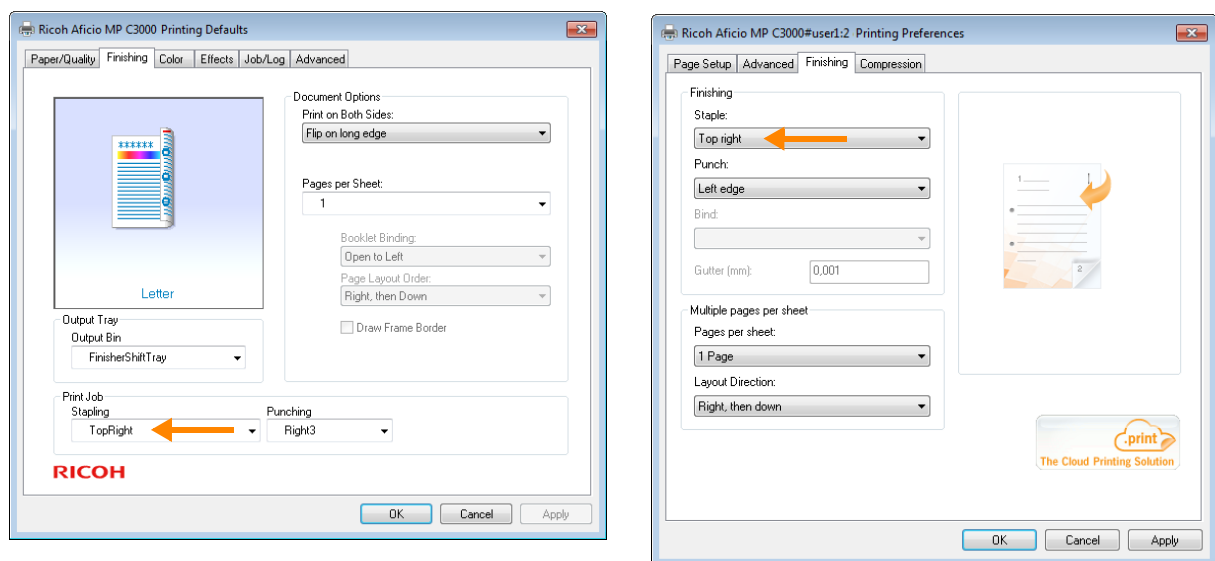
<sup>1</sup> See manual "ThinPrint Client Windows for ICA, RDP, and TCP/IP"  
<sup>2</sup> For older operating systems install ThinPrint Client 7.0.

## ThinPrint Output Gateway

Output Gateway is a virtual printer driver which enables print jobs to be rendered only on clients with Windows as the operating system; an optional print preview is also available on the client.

**Note!** When printing over Output Gateway, the fonts used in the document must also be installed on the client.

*Page setup* Client-side printer properties such as paper sizes and sources, print quality, color, orientation and print on both sides will be displayed in Output Gateway's user interface (Illus. 3, left).



**Illus. 3** Display of paper sources on a workstation (left) and in a terminal session (right)

## System requirements

ThinPrint Client Service Windows can be installed onto the following systems<sup>3</sup>:

- Windows XP Service Pack 2  
with Microsoft XML Paper Specification Essentials Pack (XPSEP)
- Window Vista  
with Microsoft XML Paper Specification Essentials Pack (XPSEP)
- Windows 7
- Windows Server 2003 Service Pack 2
- Windows Server 2008
- Windows Server 2008 R2

Either x86 or x64.

<sup>3</sup> For older operating systems install ThinPrint Client 7.0

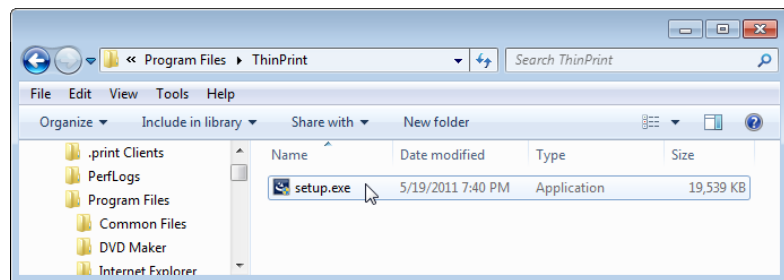
## Installing ThinPrint Client

**Administrator permissions** are required for all installation and configuration procedures. It is therefore best to log on under Windows always with the same account – e.g. as ADMINISTRATOR.

For the unattended installation see the *Pre-configuration and unattended installation of ThinPrint Client Windows* white paper.

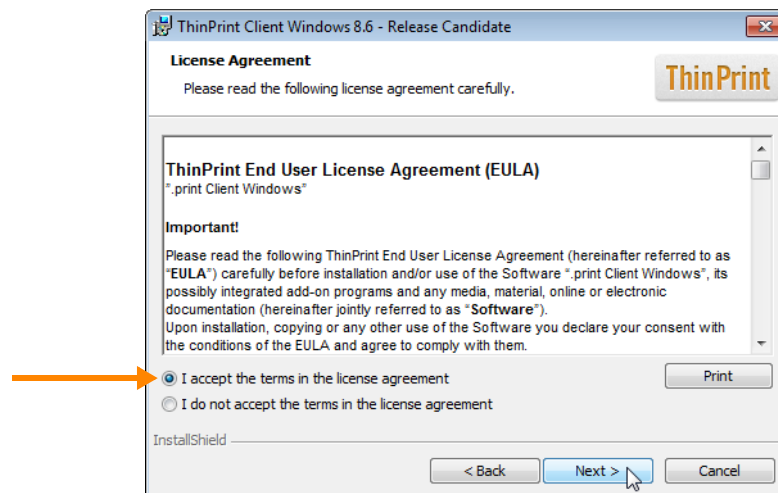
The following describes the attended installation.

1. Download of ThinPrint Client at [www.thinprint.com](http://www.thinprint.com) → SUPPORT → CLIENTS & TOOLS. Start SETUP.EXE (Illus. 4) or the relevant .msi file<sup>4</sup>.



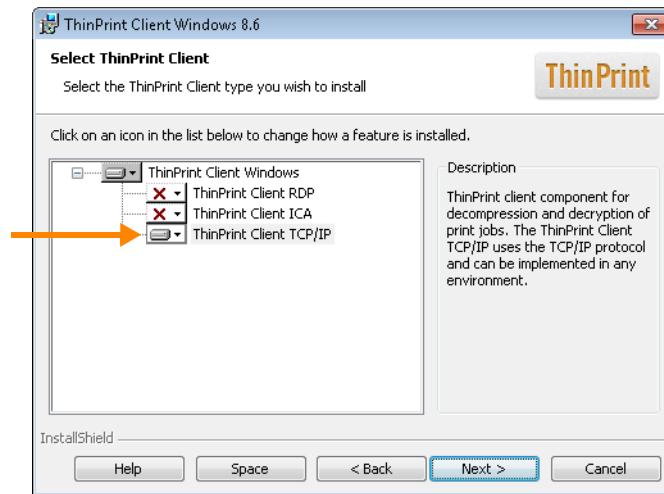
**Illus. 4** Installing ThinPrint Client Windows

2. Select the language for your installation: English, French, German or Spanish.
3. InstallShield Wizard opens. Click Next.
4. Read the license agreement and accept its terms with NEXT (Illus. 5).



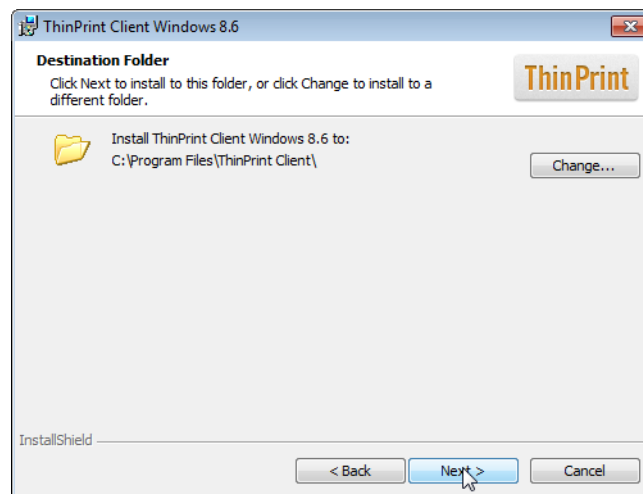
**Illus. 5** Read and accept the license agreement; click NEXT

5. Select TCP/IP as the protocol for printing (Illus. 6). Additionally, this protocol needs to be specified in ThinPrint Engine ([Page 21](#)).



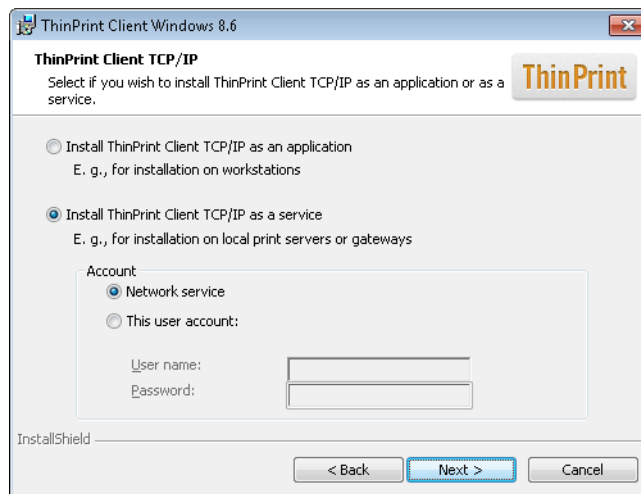
**Illus. 6** Select TCP/IP as print protocol

6. With SPACE you can verify if your hard disc space is sufficient for the installation of this software.
7. Choose the installation path (Illus. 7) and click NEXT.



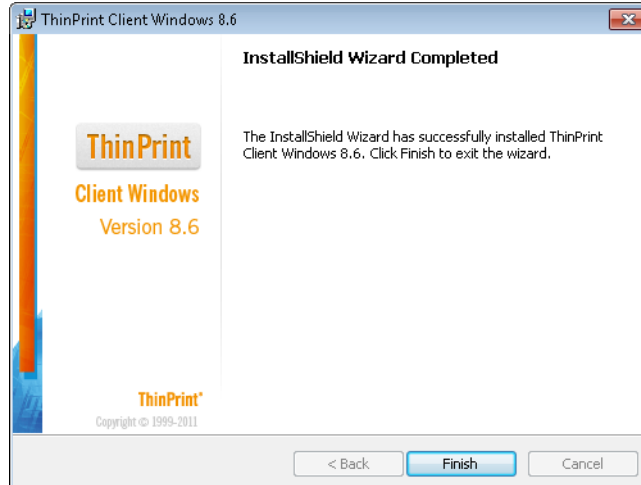
**Illus. 7** Changing installation path if necessary

8. The ThinPrint Client is installed as a Windows service. For this purpose enter a user account or select NETWORK SERVICE (default, Illus. 8).



**Illus. 8** Specifying an account for the Windows service

9. Then click **INSTALL**, to start installation. Please wait while the Install Shield Wizard installs ThinPrint Client Windows. This may take several minutes.
10. Following a successful installation you will see the screen shown in Illus. 9 with the message: “InstallShield Wizard Completed”. Click **FINISH** (Illus. 9).



**Illus. 9** ThinPrint Client 8.6 successfully installed

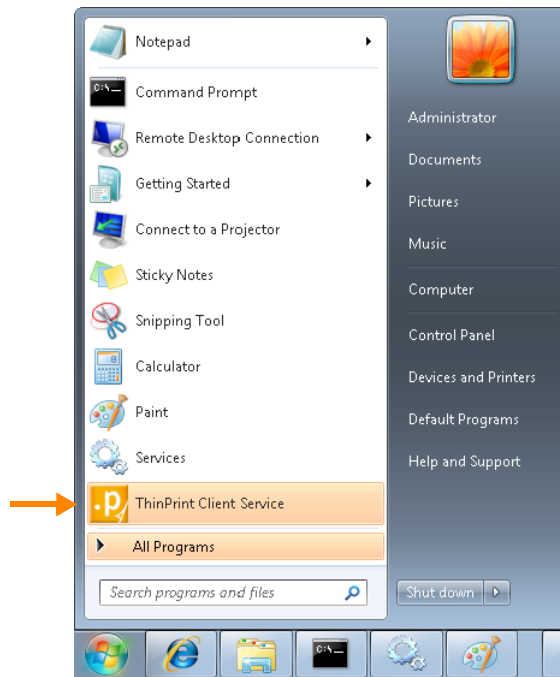
## Configuration with ThinPrint Client Manager

Remember, several changes only take effect after restarting the ThinPrint Client Service Windows ([Page 16](#)).

*Starting ThinPrint Client Manager*

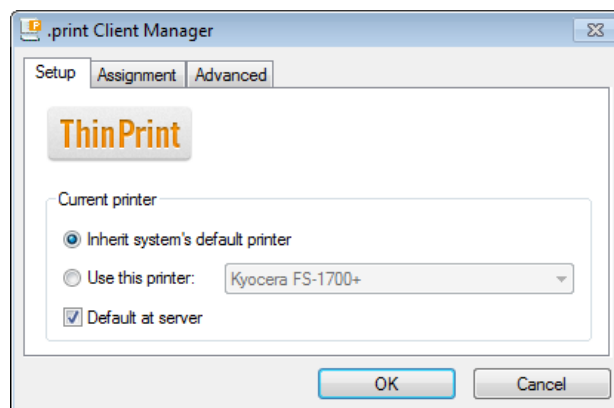
ThinPrint Client Service Windows is configured with ThinPrint Client Manager.

- Select THINPRINT CLIENT SERVICE in the START menu (Illus. 10).



**Illus. 10** ThinPrint Client Manager in Start menu

- The ThinPrint Client Manager will open (Illus. 11).



**Illus. 11** ThinPrint Client Manager: CURRENT PRINTER

### Setup tab

*Current printer*

Select CURRENT PRINTER here (Illus. 11). Print jobs are printed from the current printer if the printer ID can't be determined (e.g., no printer ID is given in the printer name at the server).

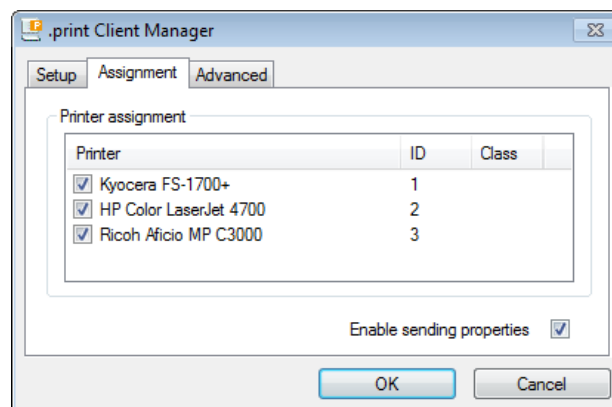
Should you want to specify that the *current printer* of ThinPrint is the same as the local Windows default printer, simply leave the default setting INHERIT CLIENT'S DEFAULT PRINTER. Or select the current printer manually with USE THIS PRINTER; in this case, the current printer can be different than the local Windows default printer.

Furthermore, the current printer can be set as default printer in a session for ThinPrint AutoConnect (see Illus. 11).

Take note that the default printer can also be determined by certain server settings. These settings might then take priority over the settings in ThinPrint Client. For assistance, read the corresponding ThinPrint Engine manual.

## Assignment tab

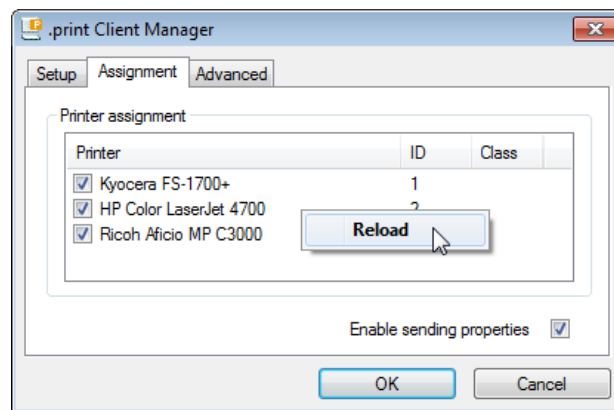
*Printers and their IDs* ASSIGNMENT lists all printers that are found in the client's printer folder with their IDs and their classes (Illus. 12).



**Illus. 12** Printers with assigned IDs

The ASSIGNMENT panel displays information about available printers. This is also where you find printer IDs, which are automatically assigned by the ThinPrint Client Service Windows and are necessary for manually assigned printer names on the ThinPrint Engine (without AutoConnect; for more information, see ThinPrint Engine manual).

*Reload Printers* You can immediately update the printer list if you click on RELOAD in the context menu (right mouse button) of the printers listed in the window (Illus. 13).



Illus. 13 Reload Printer list

*Enable sending properties*

If this option is enabled and AutoConnect is used, the client printer's **paper trays** as well as **duplex settings, paper formats, color settings, location, comments and print quality** will be applied to the printer created on the server.

Take note: If ENABLE SENDING PROPERTIES is disabled, automatic updating of the printer list is also disabled (and vice versa).

**ThinPrint AutoConnect**

It's also possible to select different printers by checking (or unchecking) the box next to them. AutoConnect will automatically map all selected printers on a server and connect them with a ThinPrint Port – provided templates exist and AutoConnect is running on the server (= auto-created printers). When starting a terminal session all marked printers are created automatically in the session. For more information please refer to the AutoConnect chapter in the ThinPrint Engine manual.

**Note!** If no printer is created by AutoConnect during the first connection after installing the ThinPrint Client Service Windows or if printing to the “current printer” does not work (if no printer ID is assigned in the server-side printer object), please follow these steps:

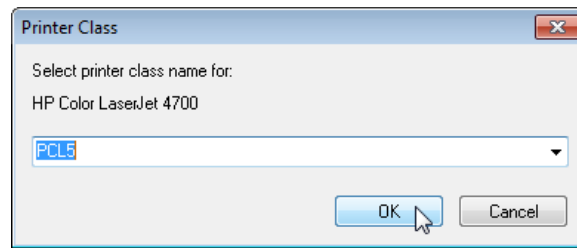
- Choose CURRENT PRINTER, then use the option USE THIS PRINTER in the ThinPrint Client Manager and select a printer.  
Restart the Windows service TP CLIENT SERVICE WINDOWS ([Page 16](#)).

**or**

- Log on one time with the Administrator account which has been entered during the installation of the ThinPrint Client Service Windows ([Page 9](#)). Open the “Printers” folder and reassign the Windows default printer. Restart the Windows service TP CLIENT SERVICE WINDOWS.
- Refer to the checklist in the ThinPrint Engine manual (Chapter “If you still can't print”).

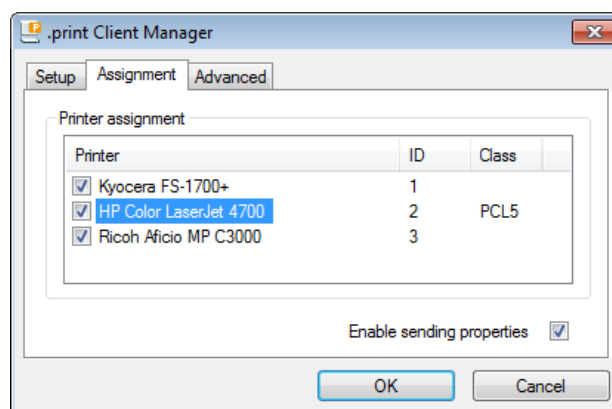
*Printer class*

Double clicking a printer name opens an input box for specifying the printer class (Illus. 14). The result is shown in Illus. 15.



**Illus. 14** Enter class name  
(see AutoConnect in the  
ThinPrint Engine manual;  
[Page 21](#))

**Note!** Unlike printer names, class names may not be longer than 7 characters and may not include blank spaces.



**Illus. 15** Printers with ID and class

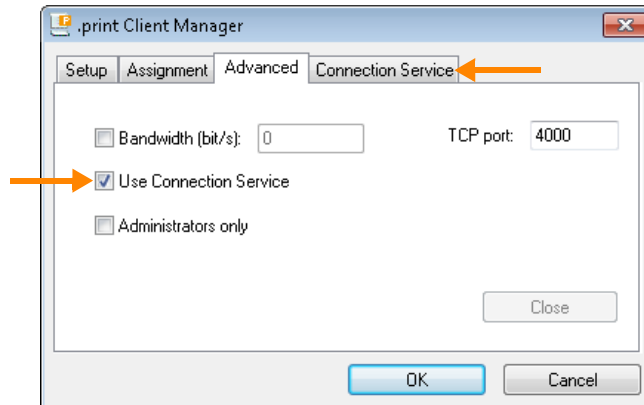
## Advanced tab

The ADVANCED panel (Illus. 16) offers the following settings:

- Bandwidth* – Check this box and enter a bandwidth value. If the value is larger or if CLIENT CONTROL is disabled at the server, server settings (see ThinPrint Engine manual) are applied.
- TCP Port* – Enter here the port number where ThinPrint Client Service Windows should receive incoming connections. Be sure: Same TCP port number for both ThinPrint Client Service Windows and ThinPrint Engine printer port to which the client printer is connected.<sup>5</sup> Otherwise, communication between the two ThinPrint components is impossible. Default TCP port number is 4000. Make certain that this port is open for both incoming and outgoing connections. If you want to avoid that condition, you can use the ThinPrint Connection Service (outgoing connection only).

<sup>5</sup> see also ThinPrint Engine manual

- Use Connection Service* – If you want to use the Connection Service, enable its check box. Once it has been activated, the additional tab card called CONNECTION SERVICE will be added. This tab offers settings for using the Connection Service (see “Connection Service tab” below). Default: disabled



Illus. 16 ThinPrint Client Manager for Windows: advanced options

*Administrators only* Checking this box prevents users from making changes to ThinPrint Client Service Windows settings.

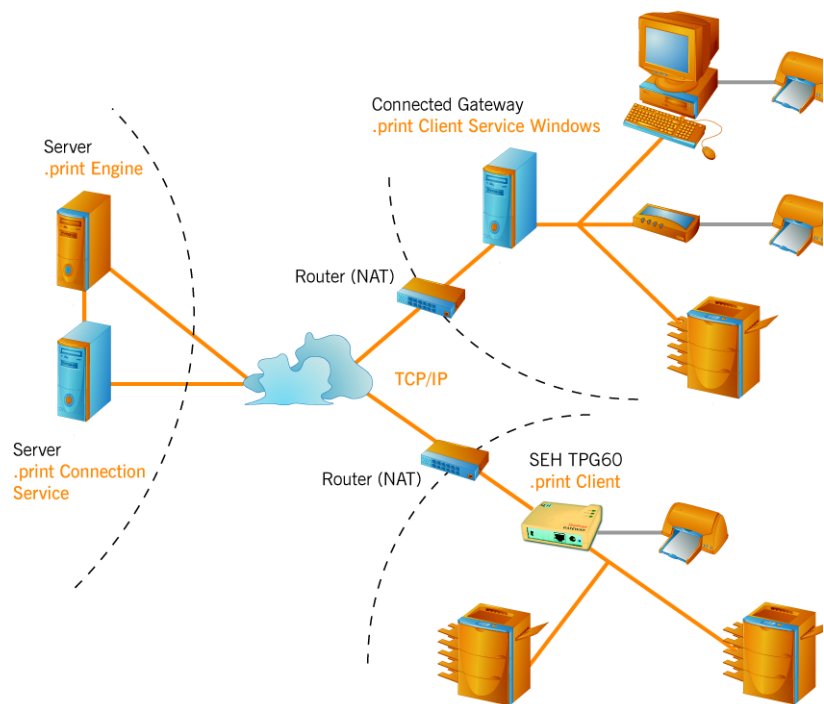
*OK* Changes are applied without quitting ThinPrint Client Service Windows – changes could, however, first be functional after restarting the service ([Page 16](#)).

*CANCEL* Previous settings remain intact, all changes are ignored.

*CLOSE* The ThinPrint Client Service Windows is closed in the SERVICES folder; therefore the CLOSE button is grayed out here. The ThinPrint Client Service Windows must be restarted before ThinPrint printing resumes.

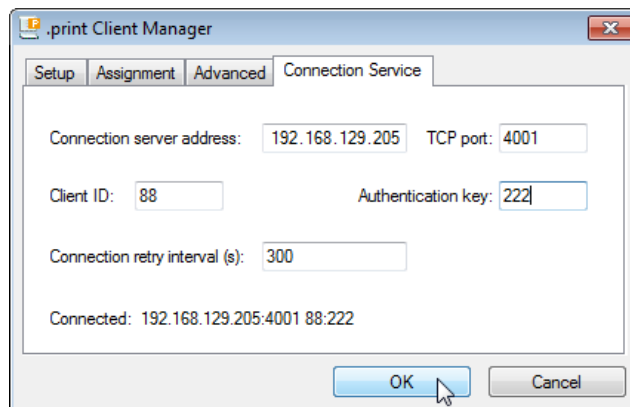
### Connection Service tab

*Why Connection Service?* The ThinPrint Client installed on the Client Gateway can connect to the Connection Service installed on the server. **Print jobs can then be sent via TCP/IP, even where the Client Gateways are found in a masked network** (e.g., behind a router with Network Address Translation; Illus. 17).



Illus. 17 Windows machine and SEH TPG60 as Connected Gateways (example)

The CONNECTION SERVICE tab (Illus. 18) offers settings for using the Connection Service. Please also note the information about installing and configuring the Connection Service in your ThinPrint Engine manual and in the “ThinPrint Connected Gateway” manual ([Page 21](#)).



Illus. 18 ThinPrint Client Manager started; CONNECTION SERVICE tab

*Connection server address*

- Enter the IP address of the server on which the Connection Service has been installed.

*TCP port*

- Enter the number of the TCP port via which the ThinPrint Client connects to the Connection Service. Default port number is 4001.

*Authentication key*

- Enter the ThinPrint Client's authentication key for the Connection Service.

- Client ID* – Here is where the client ID is entered. The Connection Service uses the client ID to forward print jobs to a client. Depending on the mode of communication, the client ID is given by the Connection Service or must be given by the client. In the latter case, the client ID must be saved in this box.
- Connection retry interval (s)* – Enter the wait time (in seconds) after which a new attempt should be made to establish a connection if the Connection Service is not reachable.  
Default: 0.
- Status line* After successful connection to the Connection Service, the status line will display the server IP address as well as the TCP port number, client ID, and authentication key. If no connection could be established to the Connection Service, the status line shows the message “Not connected” (see Illus. 18).

## Restart

ThinPrint Client Service Windows must be restarted for changes in configuration to take effect. Restart the Windows TP CLIENT SERVICE WINDOWS service under CONTROL PANEL→ ADMINISTRATIVE TOOLS→ SERVICES.

## SSL encryption

If you want a secure SSL connection between ThinPrint Engine and ThinPrint Client, you can encrypt print data with the SSL based TLS<sup>6</sup> norm.

This print data encryption is based on client authentication. When using SSL encryption, two certificates are installed on the server where ThinPrint Engine is running, and a certificate signed by the server is installed on the client. More information is found in the ThinPrint Server Engine manual ([Page 21](#)).

We recommend creating certificates with an individual certificate server or requesting them from an official source<sup>7</sup>. Please note that the certificate must be a **x.509** certificate (file format \*.cer or \*.p12). See the “Creating SSL/TLS certificates for printing with ThinPrint” white paper ([Page 21](#)).

<sup>6</sup> TLS = Transport Layer Security; SSL = Secure Socket Layer

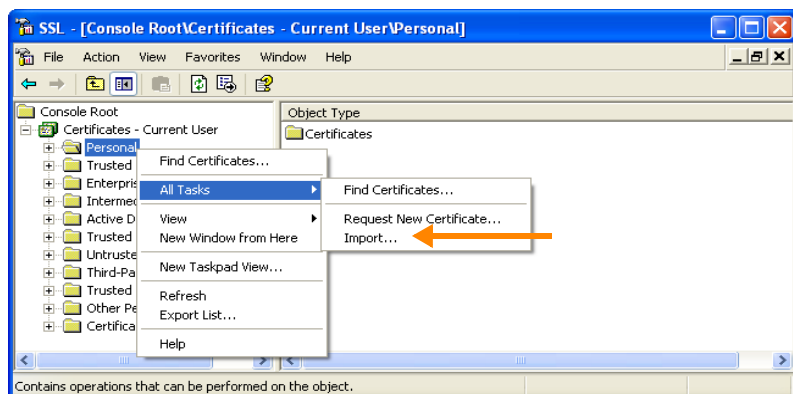
<sup>7</sup> e. g., [www.verisign.com](http://www.verisign.com) or [www.trust-center.de](http://www.trust-center.de)

### Importing SSL certificates

If the USE ENCRYPTION option is enabled in the ThinPrint Port configuration<sup>8</sup> on the server, a relevant SSL certificate, which has been signed by the server, must be imported to the machines on which a ThinPrint Client is running.

**Note!** Client certificates have to be imported in the client machine's certificate store. **Either** you import the certificates **individually for each user** (at MY USER ACCOUNT) **or one time per machine** (at COMPUTER ACCOUNT). Did you choose the Computer Account you have to assign permissions to the certificate afterwards, if the computer user(s) are not members of the Administrators group (see "Creating SSL certificates for printing with ThinPrint" white paper). If the computer has its own certificate set the registry value CERTSTORE to 1 ([Page 25](#)).

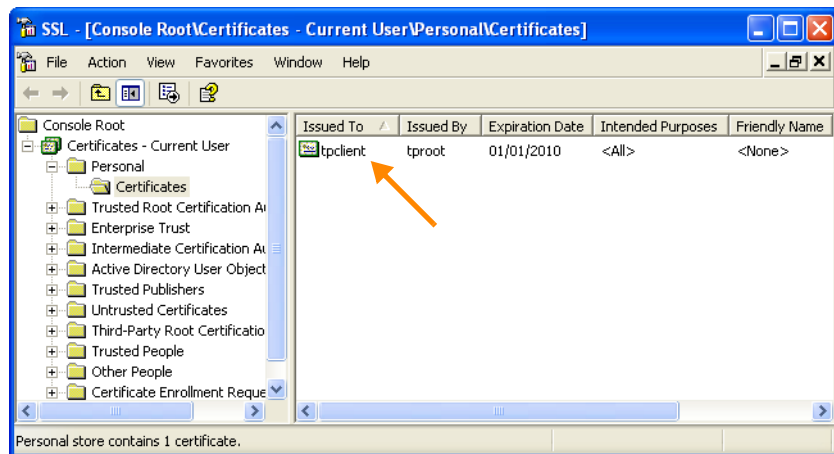
1. To install a client certificate, open the Microsoft Management Console (MMC) with **mmc.exe** from the COMMAND PROMPT.
2. Select **either** the following in MMC on the client PC **per user**:  
 FILE→ ADD/REMOVE SNAP-IN→ ADD→ CERTIFICATES→ ADD→ MY USER ACCOUNT→ FINISH→ CLOSE→ OK  
**Or select for the machine:**  
 FILE→ ADD/REMOVE SNAP-IN→ ADD→ CERTIFICATES→ ADD→ COMPUTER ACCOUNT→ FINISH→ CLOSE→ OK
3. Now import the certificate by selecting ALL TASKS→ IMPORT in the context menu (Illus. 19) and then  
 NEXT→ BROWSE→ OPEN→ NEXT→ PASSWORD→ NEXT→ PLACE ALL CERTIFICATES IN THE FOLLOWING STORE→ NEXT→ FINISH→ OK



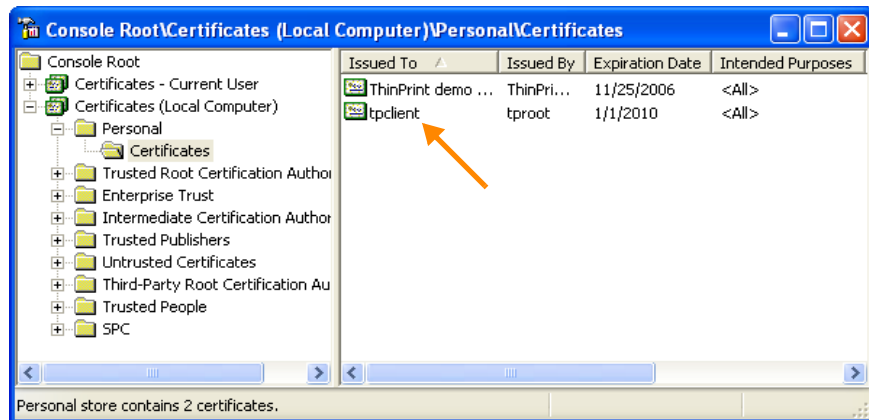
**Illus. 19** Starting import of an SSL certificate  
(example for MY USER ACCOUNT or CURRENT USER)

Illus. 20 and 21 show the results of import.

<sup>8</sup> see ThinPrint Engine manual ([Page 21](#))



**Illus. 20** SSL certificate imported to a client machine (example for MY USER ACCOUNT or CURRENT USER)



**Illus. 21** SSL certificate imported to a client machine (example for COMPUTER ACCOUNT or LOCAL COMPUTER)

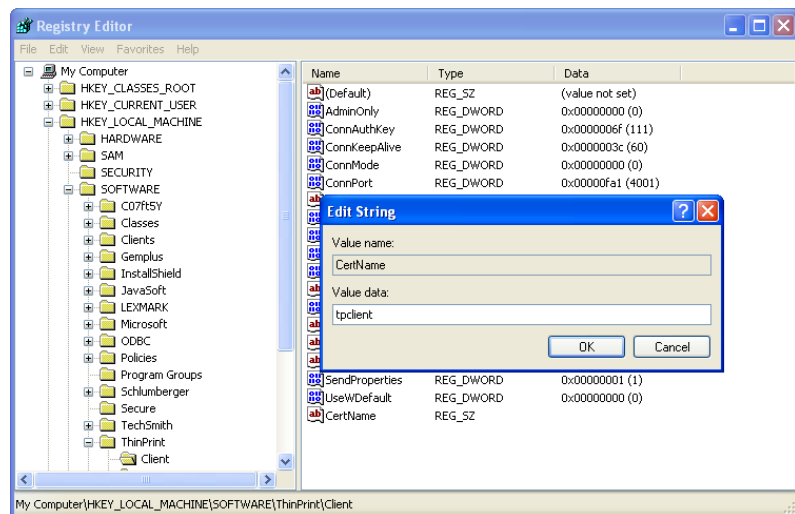
### Registry entry CertName

Before sending encrypted print data, the server checks whether the name of the imported certificate is included in the `CertName` entry in the client machine's Registry and whether the stored certificate is present on the client. The `CertName` entry in the Registry can be entered with the Custom Installation Wizard<sup>9</sup> or manually as follows:

1. After the certificate has been imported, create the following Registry entry on the client machines with REGEDIT (Illus. 22; data type: `reg_sz`):

```
hkey_local_machine\software\thinprint\client\CertName
```

<sup>9</sup> See the "Preconfiguration and unattended installation of ThinPrint Client Windows" white paper (Page 21).



**Illus. 22** Registry entry for SSL encryption on Windows clients (example for `tpclient` certificate)

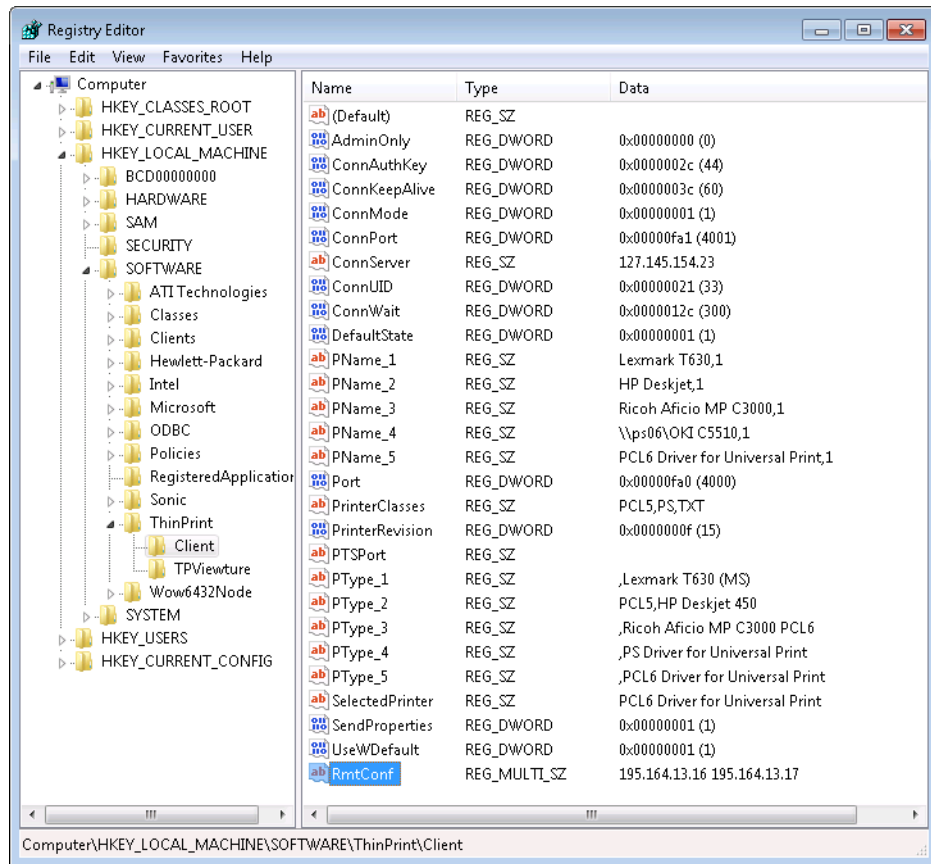
2. Enter as value the name of the imported certificate as displayed in the column ISSUED TO of the MMC's certificate overview (`tpclient` as example in [illus. 20](#) and [22](#)).
3. Restart ThinPrint Client Service Windows ([Page 16](#)).

The `CertName` Registry entry is only needed for encrypting print data; receipt of unencrypted print data is still possible.

## Remote client configuration

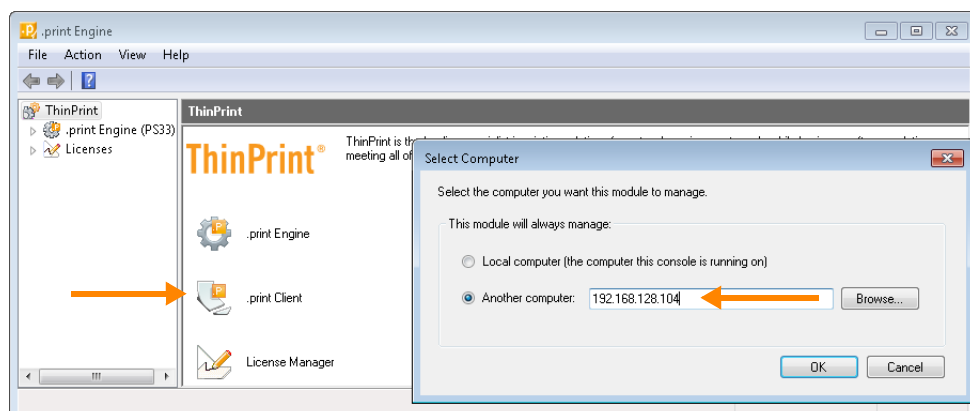
For remote configuration, the entry `RmtConf` is needed in the Windows registry of all client machines you want to configure (see [Illus. 23](#) and [Page 25](#)).

- Open the Windows registry of the client machine you want to configure. Add the entry `RmtConf` (`reg_mult_sz`) under `hkey_local_machine\software\thin-print\client`. Enter the IP addresses of all those machines from which the client should be configured ([Illus. 23](#)).



**Illus. 23** ThinPrint Client machine:  
Registry entry RMTCONF added for remote configuration of ThinPrint Client

- Restart ThinPrint Client.
- Go to the machine on which ThinPrint Engine is installed. Open the MMC, select ThinPrint Client snap-in and enter the address of the client machine to configure (Illus. 24).



**Illus. 24** ThinPrint Engine machine: Open the MMC, select ThinPrint Client snap-in and enter the address of the client machine to configure

- Now, the selected machine is ready for remote configuration (Illus. 25).



Illus. 25 ThinPrint Engine machine: Remote configuration of a ThinPrint Client

## Appendix

### Customer service and technical support

Customer Service [www.thinprint.com/](http://www.thinprint.com/) → SUPPORT  
[www.thinprint.com/Support/SupportRequest.aspx](http://www.thinprint.com/Support/SupportRequest.aspx)

### Additional sources

Further information about ThinPrint can be downloaded from our website.

*Manuals* The following manuals are available at [www.thinprint.com/](http://www.thinprint.com/) → PRODUCTS → OVERVIEW → <product name>:

- ThinPrint Client Windows
- ThinPrint Application Server Engine
- ThinPrint RDP Engine
- ThinPrint Desktop Engine
- ThinPrint Server Engine
- ThinPrint Connected Gateway

*White papers* The following white papers are available at [www.thinprint.com/](http://www.thinprint.com/) → PRODUCTS → OVERVIEW → <product name>:

- Preconfiguration and unattended installation of ThinPrint Client Windows
- Creating SSL certificates for printing with ThinPrint
- Tips for configuring ThinPrint
- ThinPrint addressing

- Windows computer as a ThinPrint Client Gateway
- Intermate IAPS ThinPrint as a ThinPrint Client Gateway
- SEH ISD200/300 as a ThinPrint Client Gateway
- SEH ISD400/410 as a ThinPrint Client Gateway
- SEH TPG60/120 as a ThinPrint Client Gateway

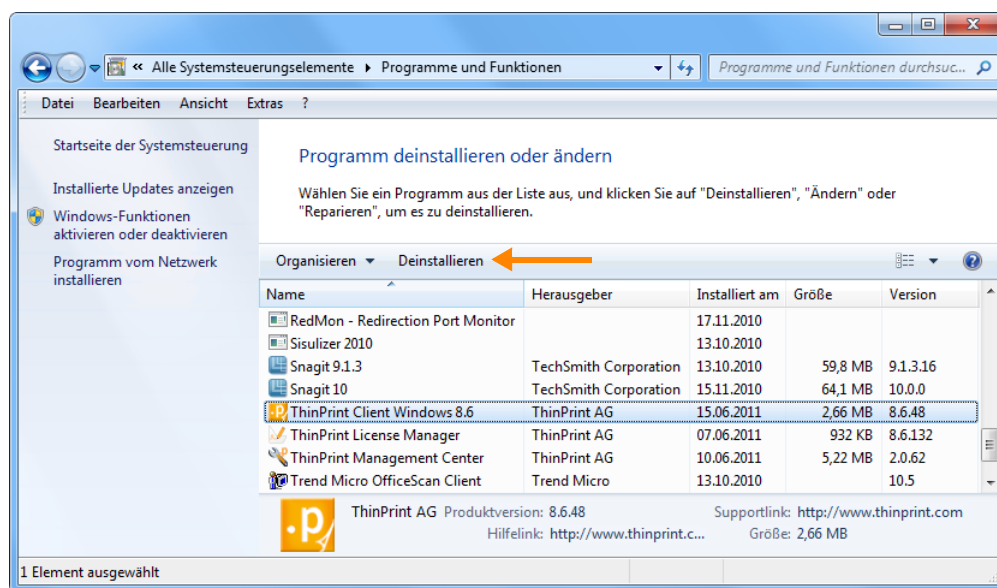
## Updating ThinPrint Client

Please note that previous settings are still valid when updating or installing ThinPrint Client on a machine where it was installed before.

1. Uninstall the present ThinPrint Client (see next chapter).
2. Install the new one ([Page 7](#)).

## Uninstalling ThinPrint Client

1. Select CONTROL PANEL→ CONTROL PANEL→ PROGRAMS→ PROGRAMS AND FEATURES, select ThinPrint Client Service Windows, and click UNINSTALL in the context menu (Illus. 26).



Illus. 26 Uninstalling ThinPrint Client



**Note!** The SERVICES configuration must be closed to uninstall a Windows service (here: TP CLIENT SERVICE WINDOWS).

## Repairing ThinPrint Client

Should ThinPrint Client Service Windows ever quit functioning, you do not have to reinstall it – you can repair it. ThinPrint Client Service Windows are repaired exactly as described above, except that REPAIR is selected instead of UNINSTALL (Illus. 26).

## Relevant entries in Windows Registry

### Registry entries of ThinPrint Client Windows

The ThinPrint Client creates the following registry entries, if necessary:

hkey\_local\_machine\software\ThinPrint\client

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
AdminOnly	ADMINISTRATORS ONLY	Restricts client configuration to administrators only	reg_dword	0
Bandwidth	BANDWIDTH	Client-side bandwidth setting (bit/s or bps)	reg_dword	none
ConnAuthKey	AUTHENTICATION KEY	Value can be defined by the admin on the connection server; otherwise it's irrelevant for the first logon, but may <b>not</b> be changed thereafter	reg_dword	0
ConnKeep-Alive	—	Interval for refreshing the connection; has to be lower or equal than Connection Service's "KeepAliveTO" (server side); (in seconds)	reg_dword	60
ConnMode	USE CONNECTION SERVICE	0 = Receiving print jobs without Connection Service (Listen Mode) 3 = Using Connection Service 1 = both modes at the same time (0 + 3)	reg_dword	0
ConnPort	TCP PORT (CONNECTION SERVICE)	TCP port for communication with the Connection Service; be sure: same TCP port number as Connection Service's "ClientPort"	reg_dword	4001
ConnServer	CONNECTION SERVER ADDRESS	IP address of the computer on which Connection Service is running	reg_sz	127.0. 0.1
ConnUID	CLIENT ID	Client ID for Connection Service – an unambiguous ID must be assigned for all clients (TPUID)	reg_dword	0

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
ConnWait	CONNECTION RETRY INTERVAL	Wait time for connection retries if Connection Service is not reachable (in seconds)	reg_dword	300
DefaultState	DEFAULT AT SERVER	AutoConnect defines current printer as default printer at server; <a href="#">Page 10</a>	reg_dword	1
DefPrintState	RELOAD (printers)	New printers in ThinPrint Client are checked immediately; <a href="#">Page 12</a>	reg_dword	1
PName_ <i>n</i>	PRINTER (ASSIGNMENT)	Name(s) of client printer(s) as read from the system settings	reg_sz	none
Port	TCP PORT (ADVANCED)	TCP-Port for communication with the ThinPrint Engine; must be the same as ThinPrint Engine “port” with a normal ThinPrint port	reg_dword	4000
PrinterClasses	CHOOSE CLASS NAME	Names of the created printer classes	reg_sz	PCL5, PS, TXT
PType_ <i>n</i>	CLASS (ASSIGNMENT)	Assigned printer class ( <i>n</i> corresponds to <i>n</i> from PName_ <i>n</i> ) plus printer driver name	reg_sz	none
Selected Printer	CURRENT PRINTER	ThinPrint Client’s default printer	reg_sz	UseWD efault
Send Properties	ENABLE SENDING PROPERTIES	AutoConnect option for sending printer properties	reg_dword	1
UseWDefault	INHERIT CLIENT’S DEFAULT PRINTER	Set to use local Windows default printer as CURRENT PRINTER	reg_dword	1
WatchPrinters	—	Observes the printer folder and refreshes printers in ThinPrint Client immediately. Enabling/disabling depends on “Enable sending properties”, <a href="#">Page 12</a> .	reg_dword	1

hkey\_local\_machine\software\ThinPrint:

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
Lang	—	Available languages for ThinPrint Client: <b>enu</b> : English <b>deu</b> : German <b>fra</b> : French <b>esn</b> : Spanish	reg_sz	enu

#### Additional Registry entries of ThinPrint Client Windows

The following Registry entries can be created manually under:

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Name	Description	Type	Default value
CertName	Name of the imported SSL/TLS certificate; <a href="#">Page 18</a>	reg_sz	none
CertStore	0 = use the user's certificate store 1 = use the computer's certificate store Note: Permissions has to be assigned to the certificate (see the "Creating SSL certificates for printing with ThinPrint" white paper).	reg_dword	0
HKCU	1 = ThinPrint Client configuration is user specific saved under: hkey_current_user\software\thinprint\client	reg_dword	0
NewID	Specifies the starting value for printer ID assignment	reg_dword	none
RmtConf	IP address of the administration machine from which the ThinPrint Client remote configuration is allowed (it is possible to enter more than one address); <a href="#">Page 19</a>	reg_multi_sz	none
SetIDList	Specifies whether changes in the ThinPrint Client (new printers, classes, etc.) should be applied when client is restarted 1 = changes are applied (printer list is updated) 0 = changes are reset Note: The „Reload printers“ function (see <a href="#">Page 11</a> ) has a higher priority than these settings.	reg_dword	none

Further information on the single entries can be found in the respective chapters of this manual and of the "Preconfiguration and unattended installation of ThinPrint Client Windows" white paper.

## ThinPrint Clients and supported features

ThinPrint Client	Network protocol			ThinPrint AutoConnect	Compression and streaming	Bandwidth control	SSL/TLS encryption	Output Gateway	ThinPrint Viewture	Virtual Channel Gateway	Connection Service
	ICA	TCP/IP	RDP								
+ possible – not possible											
Windows (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	+	+	+	–	+
Windows (ICA)	+	–	–	+	+	+	+	+	+	+	–
Windows (RDP) <sup>b</sup>	–	–	+	+	+	+	+	+	+	+	–
Service Windows (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	+	+	–	–	+
Linux (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	+	–	–	–	+
Java (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	+	–	–	–	+
Java as an applet (ICA)	+	–	–	+	+	+	+	–	–	+	–
Win16 (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	–	–	–	–	–
MS-DOS (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	–	–	–	–	–
Windows CE (TCP/IP) <sup>a</sup>	–	+	–	+	+	+	–	–	–	–	–
Windows CE (ICA)	+	–	–	+	+	+	–	–	–	+	–
Windows CE (RDP)	–	–	+	+	+	+	–	–	–	+	–
LPD device	–	+	–	–	+ <sup>c</sup>	+	–	–	–	–	–

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