

ThinPrint Client Windows

ThinPrint version 11.0

Manual

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Issued: August 30, 2016 (v181)

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Safety warning

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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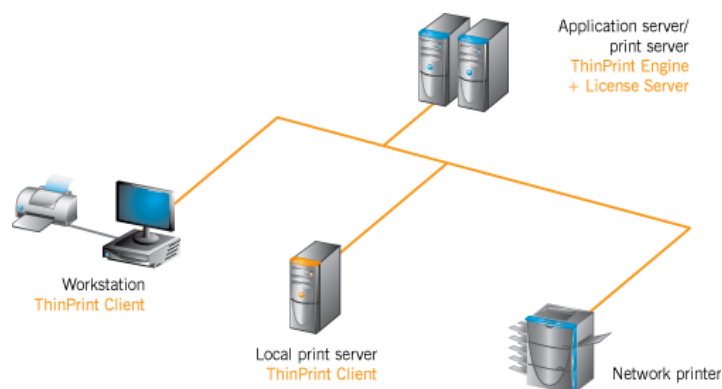
Overview

What is ThinPrint?

The ThinPrint product line offers premium print management for all IT environments. No matter whether server-based, virtualized or distributed PC architecture, with homogeneous or heterogeneous hardware and operating features, with an integrated print server or not. Mobile employees, home employees, as well as complete branch offices can be easily integrated into the existing corporate IT infrastructure without any printing restrictions with regard to flexibility, performance or comfort. Thanks to the high levels of print data compression, secure SSL-encryption, connection-oriented bandwidth control, dynamic printer deployment and technology such as Driver Free Printing, V-Layer and ThinShare, ThinPrint fully meets the requirements for professional print management.

The technology

ThinPrint is a software solution and consists of server and client components (Illus. 1).



Illus. 1 using of ThinPrint with server and client components

Server components

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 primary functions:

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

Also installed on the server side, is the License Server, which manages the ThinPrint licenses.

Client component

A software component on the client side, **ThinPrint 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, for Mac OS and Linux as well as for internal

and external print servers for network printers. The following ThinPrint Client types 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)

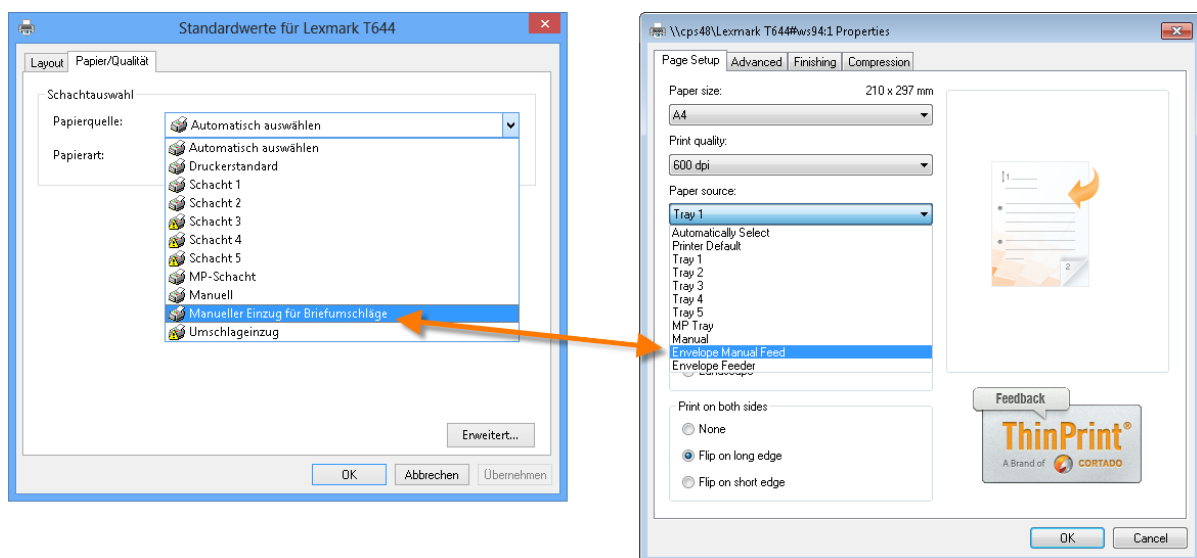
The ThinPrint Client *Service* Windows uses TCP/IP as print protocol. This Client type differs from the ThinPrint Client for TCP/IP because it is running as a Windows service under Windows. This has the advantage that no user must be logged onto the computer running ThinPrint Client Service Windows. No page preview is possible with this ThinPrint Client type.

Driver Free Printing

ThinPrint 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 workstations.

Page setup

Client-side printer properties such as paper sizes and sources, print quality, color, orientation, print on both sides and finishing options will be displayed in Output Gateway's user interface (Illus. 2, left).



Illus. 2 display of paper sources on a workstation (left) and in a terminal session (right)

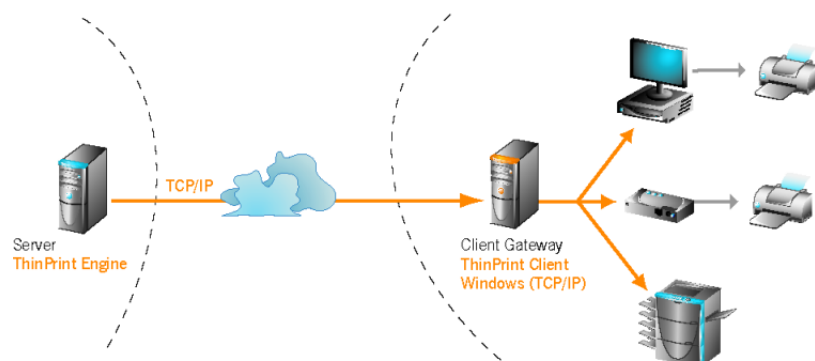
ThinPrint Client on local print servers

The ThinPrint Client Service Windows is installed only on local print servers where it runs as a Windows Service – in contrast to the other ThinPrint Clients Windows which are generally installed as an application. The local print server with its Thin-

Print Client can be a real or virtual Windows machine with a server or workstation operating system.

A ThinPrint Client on a local print server 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 (Illus. 3). Then the ThinPrint Client is only necessary on the local print server 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 the local print server. More information can be found in the technical information *Windows computer as a ThinPrint Client Gateway*.



Illus. 3 local print server with a ThinPrint Client (example)

Installing ThinPrint Client

Technical requirements

ThinPrint Client Windows 11.0 can be installed onto the following systems¹:

- Windows 10, 8.1, 8 and 7 SP1
- Windows Server 2016², 2012 R2, 2012 and 2008 R2

¹ For older operating systems older versions of ThinPrint Client Windows can be used.

² as soon as available

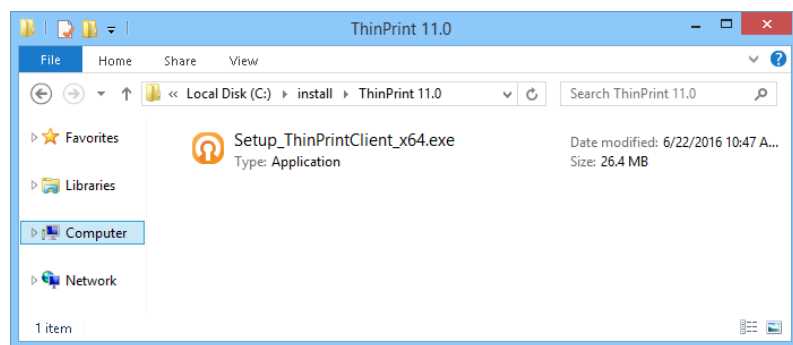
Note! In case the print protocol ICA is to be used, please install the **Citrix Receiver** before the ThinPrint Client.

To do so, verify that both the Citrix Receiver and the ThinPrint Client are installed with administrator privileges and there are no user-based Citrix Receiver installations on the system.

For the unattended installation see the technical information *Preconfiguration and unattended installation of ThinPrint Client Windows*. The following describes the attended installation.

Installing the ThinPrint Client

1. Log in with administrator privileges.
2. Download of ThinPrint Client at www.thinprint.com. Start SETUP file (Illus. 4) or the relevant .msi file³.

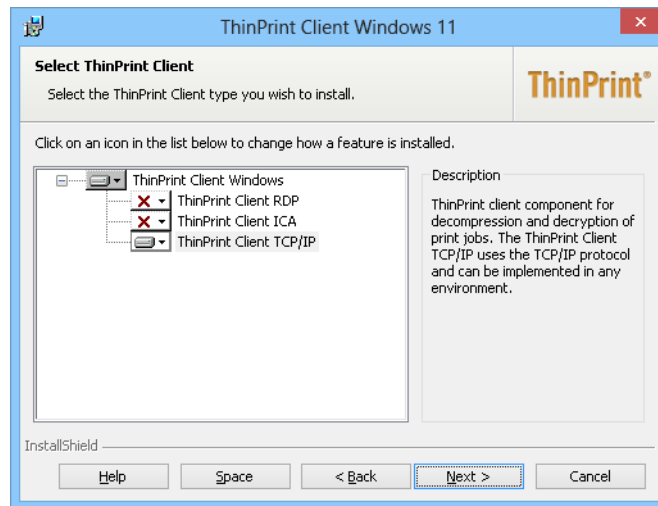


Illus. 4 installing ThinPrint Client Windows

3. Select the language for your installation: English, French, German or Spanish.
4. InstallShield Wizard opens. Click Next.

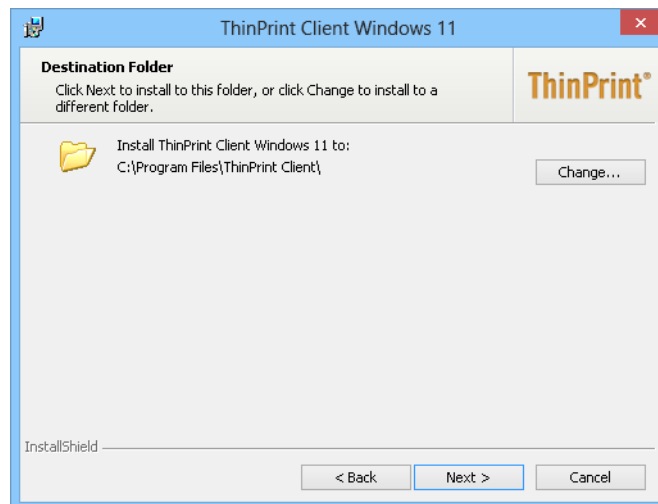
³ can be extracted from this using the call: `Setup.exe /a`

5. Read the license agreement and accept its terms with NEXT.
6. On local print servers, select TCP/IP as the protocol for printing (Illus. 5), on workstations it depends on the print environment. Additionally, the chosen protocol needs to be specified in ThinPrint Engine (see the corresponding ThinPrint Engine manual).



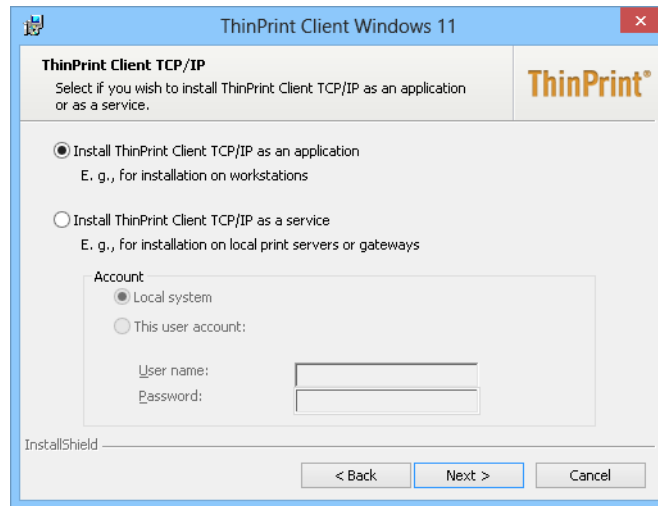
Illus. 5 select the print protocol

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



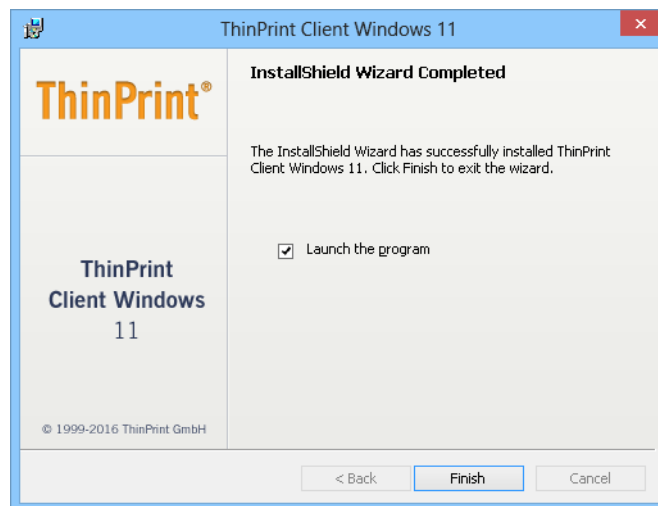
Illus. 6 changing installation path if necessary

10. If you chose TCP/IP as print protocol: On workstations, select ... AS AN APPLICATION. On local print servers, ThinPrint Client is installed as a Windows service; for this purpose enter a user account or select LOCAL SYSTEM (default, Illus. 7).



Illus. 7 installing the TCP/IP client as an application or a service

11. Then click **INSTALL**, to start installation. Please wait while the Install Shield Wizard installs ThinPrint Client Windows. This may take several minutes.
12. Following a successful installation you will see the screen shown in Illus. 8 with the message: “InstallShield Wizard Completed”. Click **FINISH**.



Illus. 8 ThinPrint Client successfully installed

Running the ThinPrint Client

All ThinPrint Clients Windows are started automatically:

- The **RDP type** is started with a respective session.
- The **ICA type** is started automatically with a XenApp or XenDesktop session. Log off once from the workstation before.
- The **TCP/IP type as an application** is started using an entry in the STARTUP folder, the other TCP/IP type **as a Windows service** on local print servers. If the **printer list** of ThinPrint Client **Service Windows** is **empty** after starting the operating system (Illus. 12) maybe the client started faster than the Print Spooler. In this case start the **TP Client Service Windows** delayed in time – either using the start type AUTOMATIC (DELAYED START) or per script (start type: MANUAL); this could be the following:

```
ping 127.0.0.1 -n 30 >NUL
net start Thn32svc
```

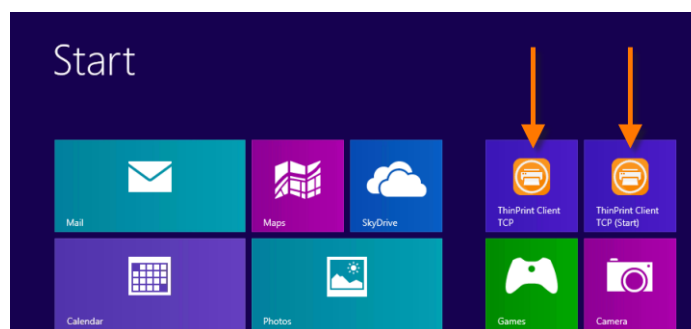
Configuration with ThinPrint Client Manager

Remember, several changes only take effect after restarting the ThinPrint Client Windows ([Page 12](#)).

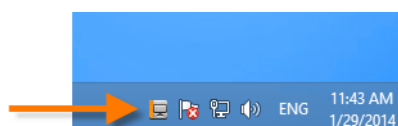
Note! The ThinPrint Client configuration using **group policies** is described in the *ThinPrint group policies* manual.

Starting ThinPrint Client Manager

ThinPrint Client Windows is configured with ThinPrint Client Manager, which can be opened in the START menu (Illus. 9, left arrow) or, if running, from the task bar (Illus. 10).



Illus. 9 ThinPrint Client Manager in Start menu: Configuration (left arrow) or Start (right arrow)



Illus. 10 ThinPrint Client in the task bar

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

Client Manager has four columns, of which the fourth (Connection Service) is only activated when required (see Illus. 16 on [Page 15](#)). The tabs are explained below.

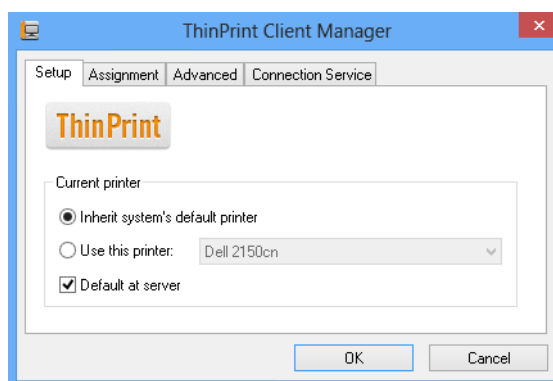
ThinPrint Client restart

ThinPrint Client must be restarted for changes in configuration to take effect (see *Running the ThinPrint Client*, [Page 11](#)).

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 under printer name on the server).



Illus. 11 ThinPrint Client Manager: CURRENT PRINTER

If the user's default printer in his local printer folder should be his default printer in the session, leave the settings unchanged (INHERIT SYSTEM'S DEFAULT PRINTER).

If another printer is to be provided as default printer in the session, select the preferred printer under USE THIS PRINTER.

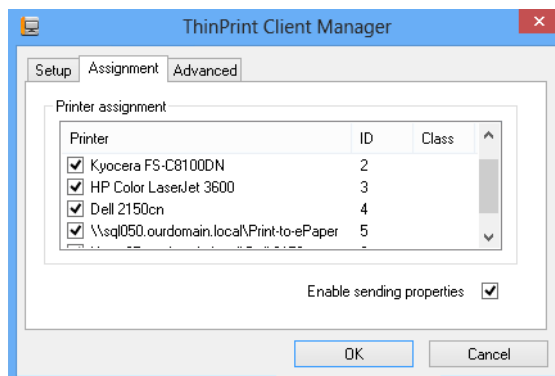
In both cases, DEFAULT AT SERVER remains checked. Only remove the checkmark if you don't want the default printer allocation to be influenced by the Client (but rather by server settings).

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).

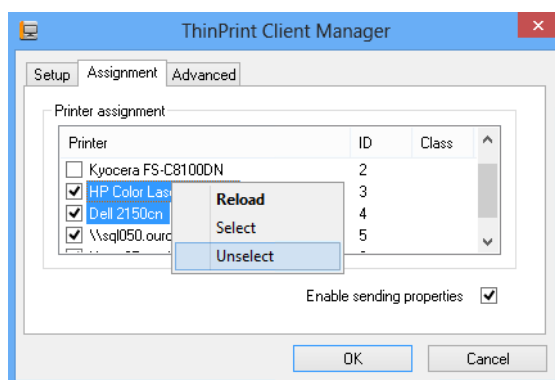


Illus. 12 printers with assigned IDs

The printer IDs are automatically assigned by the ThinPrint Client Windows and are necessary for manually assigned printer names on the ThinPrint Engine (without AutoConnect or Management Center/Services; for more information, see in the corresponding 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 a printer listed in the window. You can also highlight several printers simultaneously to select or unselect (Illus. 13).



Illus. 13 reload Printer list

*Enable sending
properties*

If this option is enabled and AutoConnect, Management Center or Management Services is/are 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.

AutoConnect and Management Center/Services

It's also possible to select different printers by checking (or unchecking) the box next to them. All selected printers are created or connected automatically on a server or in a session by AutoConnect or by Management Center or Management Services.

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 corresponding ThinPrint Engine or Management Center 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 12](#)).

or

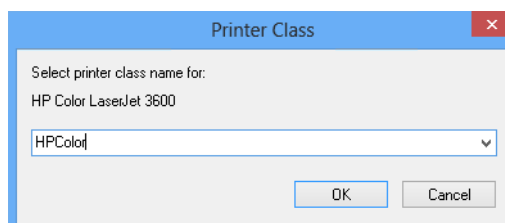
- Log on one time with the Administrator account which has been entered during the installation of the ThinPrint Client Service Windows (Illus. 7 on [Page 10](#)). Open the Printers folder and reassign the Windows default printer.

- Restart the Windows service TP CLIENT SERVICE WINDOWS.

- Refer to the section *Troubleshooting* in the corresponding ThinPrint Engine manual.

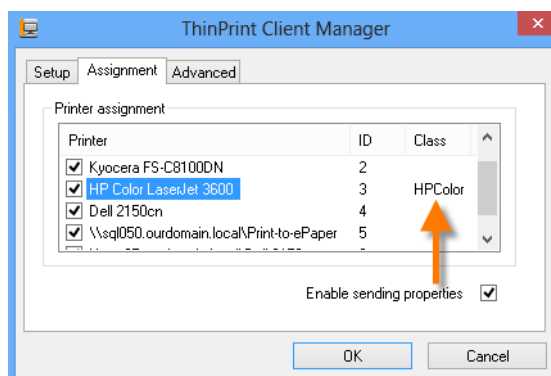
Printer class

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

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

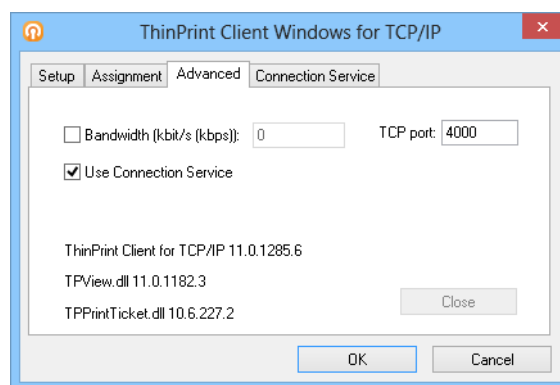


Illus. 15 printers with ID and class

Advanced tab

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

<i>Bandwidth</i>	Check this box and enter a bandwidth value. If the value is larger or if CLIENT CONTROL is disabled at the server, server settings are applied (see Configure tab in the corresponding ThinPrint Engine manual).
<i>TCP port</i>	Enter here the port number where ThinPrint Client Windows should receive incoming connections. Be sure: Same TCP port number for both ThinPrint Client Windows and ThinPrint Engine printer port to which the client printer is connected. ⁴ 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).
<i>Use Connection Service (TCP/IP type only)</i>	If you want to use the Connection Service, enable its check box (TCP/IP type only). 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 <i>Connection Service tab</i> below). Default: disabled
<i>OK</i>	Changes are applied without quitting ThinPrint Client Windows – changes could, however, first be functional after restarting the service (<i>ThinPrint Client restart</i> on Page 12).
<i>CLOSE</i>	The CLOSE button can only be used with the TCP/IP type of ThinPrint Client as a Windows application. The RDP and ICA type are started and closed automatically with the session. The ThinPrint Client Service Windows is closed in the SERVICES folder; therefore the CLOSE button is grayed out here. The ThinPrint Client must be restarted before ThinPrint printing resumes.



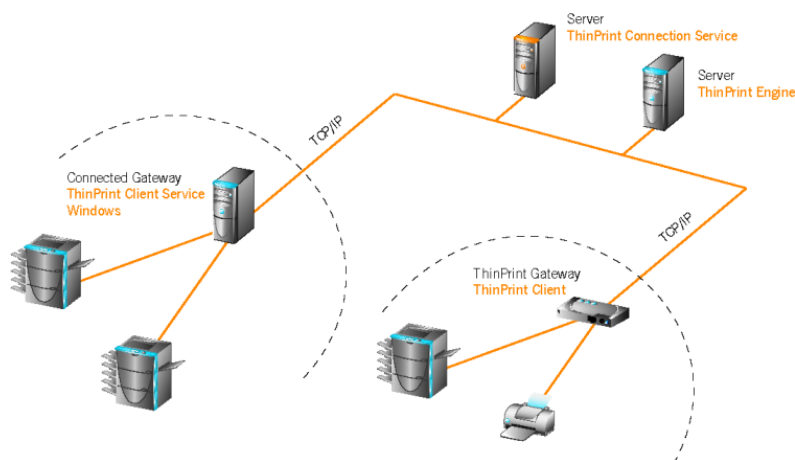
Illus. 16 ThinPrint Client Manager for Windows: advanced options

Connection Service tab

The **TCP/IP type** of ThinPrint Client installed on a local print server can connect to the Connection Service installed on any server. **Print jobs can then be sent via**

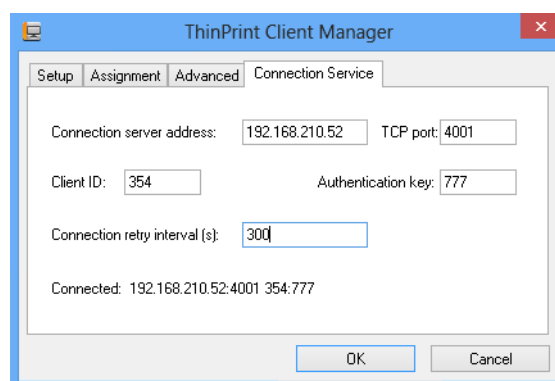
⁴ See also *Configure tab* in the corresponding ThinPrint Engine manual.

TCP/IP, even where a local print server is found in a masked network (e.g., behind a router with Network Address Translation) or firewall restrictions necessitate to turn the communication direction (Illus. 17).



Illus. 17 local print servers with a ThinPrint Client as 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 the manuals *ThinPrint Engine on print servers, Management Center* and *Connection Service*.



Illus. 18 ThinPrint Client Manager started; CONNECTION SERVICE tab

<i>Connection server address</i>	Enter the IP address of the server on which the Connection Service has been installed.
<i>TCP port</i>	Enter the number of the TCP port via which the ThinPrint Client connects to the Connection Service. Default port number is 4001.
<i>Authentication key</i>	Enter the ThinPrint Client's authentication key for the Connection Service.
<i>Client ID</i>	Here you enter the Client ID that was assigned to this user by the server with the Connection Service.

<i>Connection retry interval (s)</i>	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: 300 (five minutes).
<i>Status line</i>	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).

SSL encryption

If you want a secure connection between ThinPrint Engine and ThinPrint Client, you can **encrypt print data with SSL**.

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 section *Encryption of print data* of the corresponding ThinPrint Engine manual.

We recommend creating certificates with an individual certificate server or requesting them from an official source⁵. Please note that the certificate must be a **X.509** certificate (file format *.cer, *.pfx or *.p12). See the technical information *Creating SSL certificates for printing with ThinPrint*.

Importing SSL certificates

If the USE ENCRYPTION option is enabled in the ThinPrint Port configuration⁶ 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.

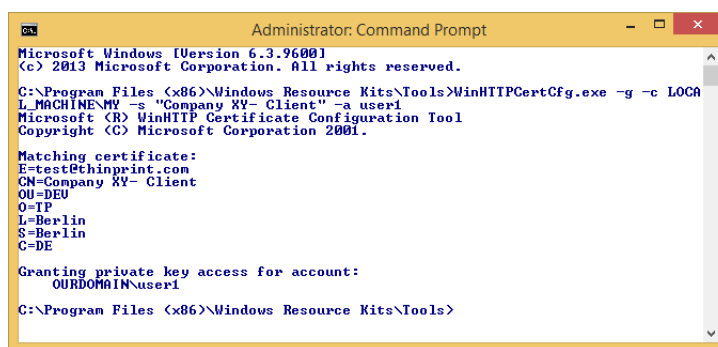
Note! Client certificates have to be imported in the client machine's certificate store. **Either** you import the certificates **individually for each user** (at MY USER ACCOUNT) **or one time per machine** (at COMPUTER ACCOUNT). Did you choose the Computer Account you have to assign permissions to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

In case CERTSTORE=1 shouldn't work, either install the certificate for each user (and set CERTSTORE back to 0) or download the [Windows HTTP Services Certificate Configuration Tool](#) from Microsoft's website and run the following on the Command Prompt as admin and for each user (Illus. 19):

```
WinHTTPCertCfg.exe -g -c LOCAL_MACHINE\MY -s <CertName>
-a <UserName>
```

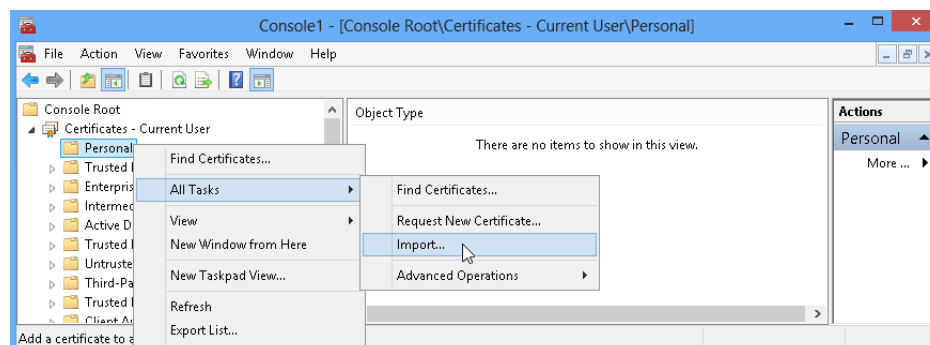
⁵ e. g., www.verisign.com

⁶ See *Encryption of print data* in the corresponding ThinPrint Engine manual.



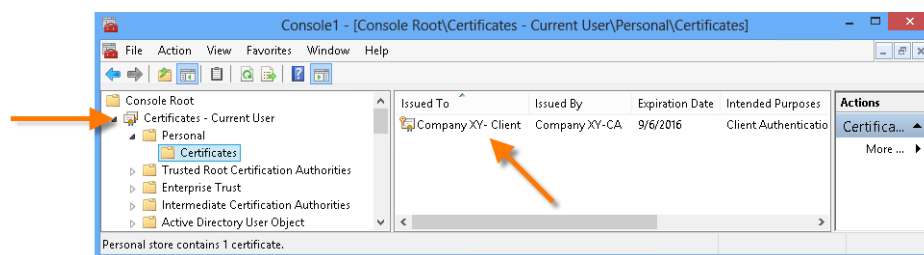
Illus. 19 Windows HTTP Services Certificate Configuration Tool: assigning the permission for the installed certificate to a specific user

1. To install a client certificate, open the Microsoft Management Console (MMC).
2. Select **either** the following in MMC on the client PC **per user**:
 FILE → ADD/RREMOVE SNAP-IN → ADD → CERTIFICATES → ADD → MY USER ACCOUNT → FINISH → OK
Or select for the machine:
 FILE → ADD/RREMOVE SNAP-IN → ADD → CERTIFICATES → COMPUTER ACCOUNT → NEXT → LOCAL COMPUTER → FINISH → OK
3. Now import the certificate by selecting ALL TASKS → IMPORT in the PERSONAL context menu (Illus. 20), then NEXT → BROWSE → NEXT → PASSWORD → NEXT → PLACE ALL CERTIFICATES IN THE FOLLOWING STORE → NEXT → FINISH → OK

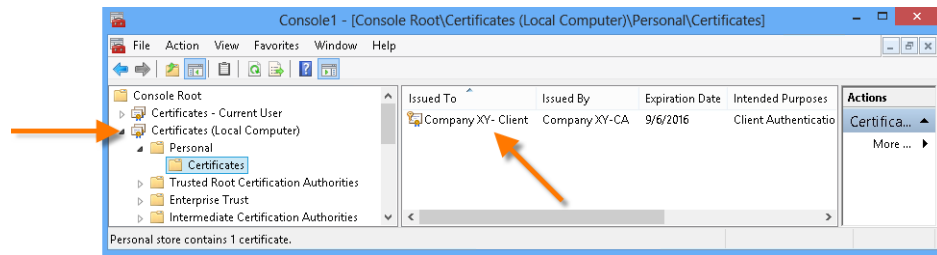


Illus. 20 starting import of an SSL certificate (example for MY USER ACCOUNT or CURRENT USER)

Illus. 21 and 22 show the results of import (Illus. 21 for Current User; Illus. 22 for Local Computer).



Illus. 21 SSL certificate imported to a client machine (example for CURRENT USER/PERSONAL)



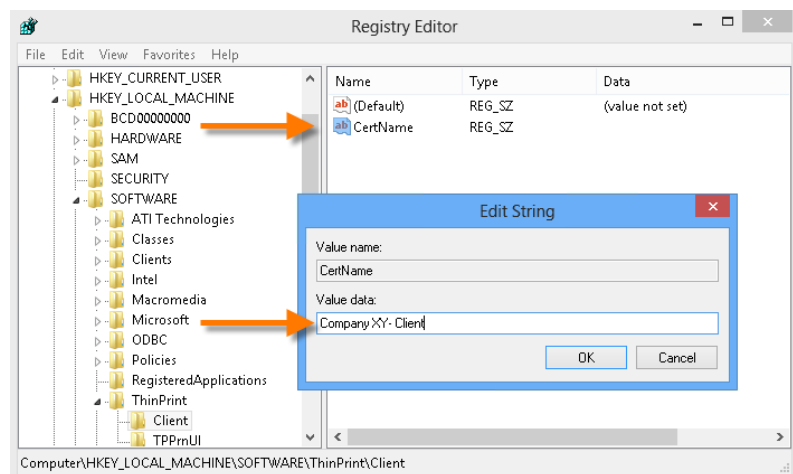
Illus. 22 SSL certificate imported to a client machine (example for LOCAL COMPUTER/PERSONAL)

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. Enter the `CertName` entry in the Registry as follows:

1. After the certificate has been imported, create the following Registry entry with data type `REG_SZ` on the client machines (Illus. 23):

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



Illus. 23 registry entry for SSL encryption on Windows clients (example for COMPANY XY- CLIENT certificate)

2. Enter as value the name of the imported certificate as displayed in the column ISSUED TO of the MMC's certificate overview (COMPANY XY- CLIENT as example in illus. 21 and 23).
3. Restart ThinPrint Client Service Windows ([Page 12](#)).

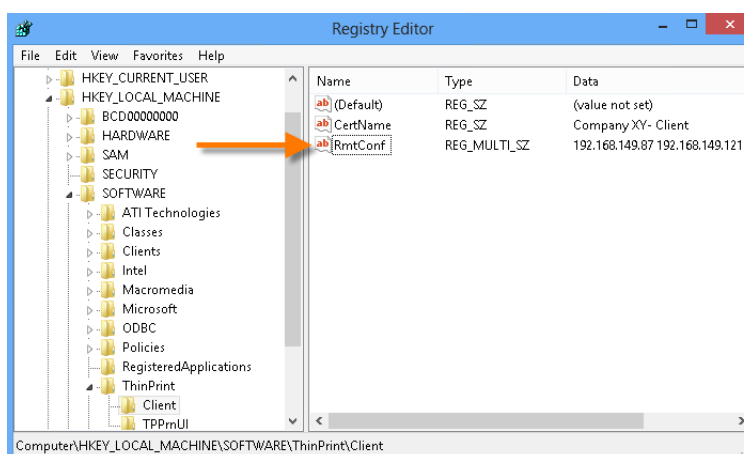
The `CertName` Registry entry is only needed for encrypting print data; receipt of unencrypted print data is still possible.

Remote client configuration

You can also configure ThinPrint Client Windows remotely, from a server that's running either a ThinPrint Engine or ThinPrint Management Center. To facilitate this, the

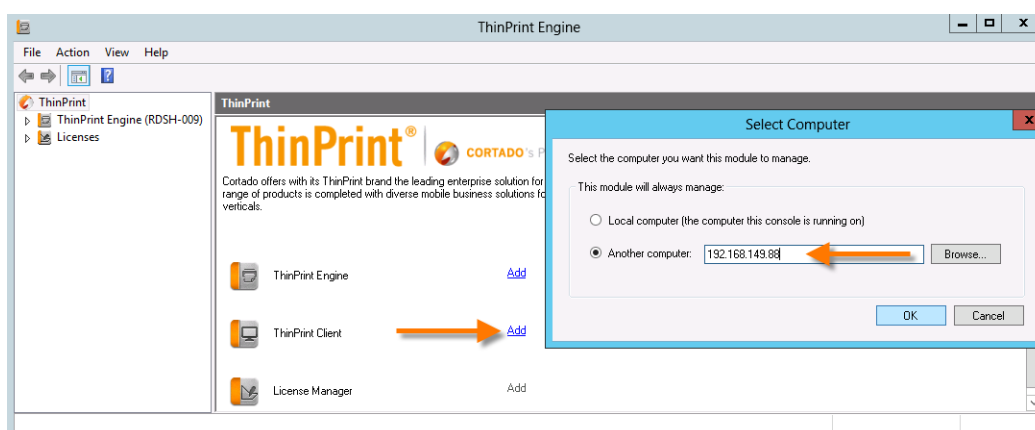
entry **RmtConf** is needed in the Windows registry of all client machines you want to configure (see Illus. 24 and *Additional Registry entries of ThinPrint Client Windows* on [Page 25](#)), together with the appropriate settings on the server (a ThinPrint Engine in this example).

- Open the Windows registry of the client machine you want to configure. Add the entry **RmtConf** (reg_multi_sz) under `hkey_local_machine\software\thinprint\client`. Enter the IP addresses of all those machines from which the client should be configured (Illus. 24).
- Restart ThinPrint Client ([Page 11](#)).



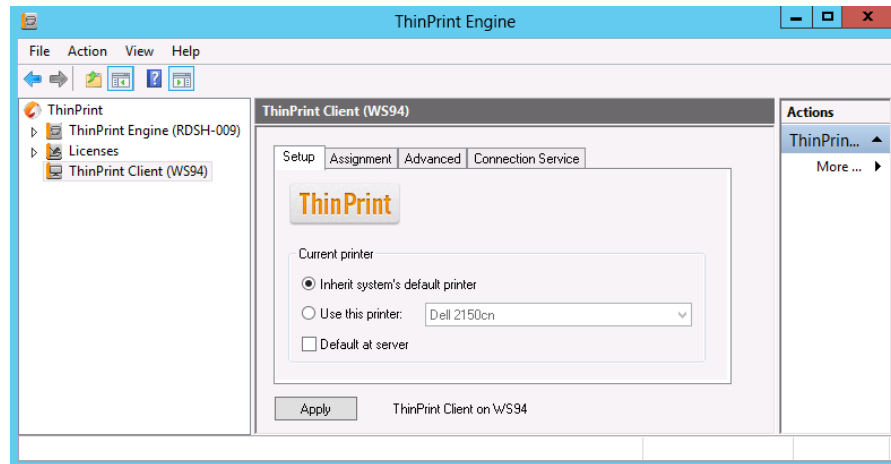
Illus. 24 ThinPrint Client machine: registry entry RMTCONF added for remote configuration of ThinPrint Client

- Go to the machine on which ThinPrint Engine is installed. Open the Engine configuration and select **THINPRINT CLIENT** → **ADD** and enter the address of the client machine to configure (Illus. 25).



Illus. 25 ThinPrint Engine machine: add ThinPrint Client and enter the address of the client machine to configure

- Now, the selected machine is ready for remote configuration (Illus. 26).



Illus. 26 ThinPrint Engine machine: remote configuration of a ThinPrint Client

Appendix

Customer service and technical support

www.thinprint.com/ → RESOURCES & SUPPORT

<https://www.thinprint.com/en/resources-support/support-request/>

Additional resources

Further information about ThinPrint can be downloaded from our website.

Manuals and descriptions

Manuals and other technical information are available at

<https://www.thinprint.com/en/resources-support/guides-manuals/>.

Thin clients and gateways

Thin Clients or terminals with embedded ICA/RDP type of ThinPrint Client as well as ThinPrint gateway appliances can be found at

<https://www.thinprint.com/en/resources-support/supported-devices/>.

Software downloads

The current version of **ThinPrint Engine**, can be downloaded at:

www.thinprint.com/demo.

ThinPrint Clients as well as tools like **Finishing Detector** and **ThinPrint Preview** (TPView.exe) can be found at

<https://www.thinprint.com/en/resources-support/software/clientsandtools/>.

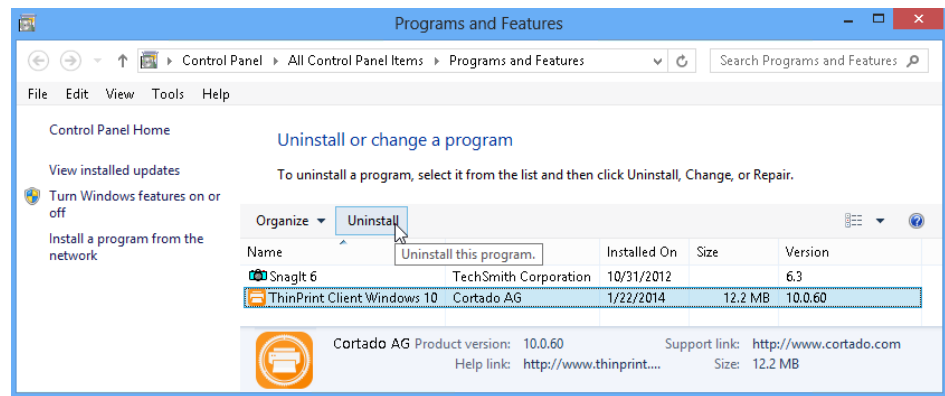
Updating or uninstalling ThinPrint Client

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. No printer information will be lost because it's saved in the Windows Registry. Just install the new version of ThinPrint Client.

Uninstalling ThinPrint Client

1. Select CONTROL PANEL → PROGRAMS AND FEATURES, select ThinPrint Client Windows, and click UNINSTALL (Illus. 27).



Illus. 27 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. To do so, start the setup of ThinPrint Client Windows again (Illus. 4 on [Page 8](#)) and select REPAIR.

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

or:

hkey_current_user\software\AppDataLow\software\ThinPrint\Client

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
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 not be changed thereafter	reg_dword	0
ConnMode	USE CONNECTION SERVICE	0 = Receiving print jobs without Connection Service (Listen Mode) 1 = with Connection Service	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
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 (<i>Setup tab</i> on Page 12)	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 Port of ThinPrint Engine with a normal ThinPrint Port	reg_dword	4000

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
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	Use-WDe-fault
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, Page 13 .	reg_dword	1

hkey_local_machine\software\ThinPrint:

Name	Menu item (ThinPrint Client Manager)	Description	Type	Default value
AdminOnly	ADMINISTRATORS ONLY	Restricts client configuration to administrators only	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
DefPrintState	RELOAD (printers)	New printers in ThinPrint Client are checked immediately (Illus. 13 on Page 13)	reg_dword	1
Lang	—	Available languages for ThinPrint Client: enu : English deu : German fra : French esn : Spanish	reg_sz	enu

Additional Registry entries of ThinPrint Client Windows

The following Registry entries can be created manually under:

hkey_local_machine\software\ThinPrint\client

or

hkey_current_user\software\AppDataLow\software\ThinPrint\client

Name	Description	Type	Default value
CachePrinterIDs	If set (= 1) the ThinPrint Client turns on the caching of printer IDs: Values of printers that do not exist (anymore) will not be removed from registry (see PName_*, PType_*, PUsed_* and PPort_*). For each newly added printer the list will be searched for a matching printer name to take the according ID. If no matching printer name was found a completely new ID will be assigned.	reg_dword	0
CertName	Name of the imported SSL certificate (<i>Registry entry Cert-Name on Page 19</i>)	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 technical information <i>Creating SSL certificates for printing with ThinPrint</i>).	reg_dword	0
DebugFile	Path to the log file (together with DebugLevel only)	reg_sz	none
DebugLevel	Bit 1: log errors Bit 2: log warnings Bit 3: log information Example: 7 = log all (together with DebugFile only)	reg_dword	none
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 (e.g., with ThinPrint Engine or Management Center installed) from which the ThinPrint Client remote configuration is allowed. It is possible to enter more than one address (<i>Remote client configuration on Page 19</i>)	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 (Page 13) has a higher priority than these settings.	reg_dword	none

hkey_local_machine\software\ThinPrint\client

Name	Description	Type	Default value
BlockProperties	List of printer drivers to disable the fetching of the printer properties for (these native drivers will not be queried for their printer properties by the ThinPrint Client). The name of a printer driver must be on each single line. This list may be overwritten by settings from the GPO.	reg_multi_sz	none
BoundIPs	Contains a list of IP addresses the ThinPrint Client is supposed to listen on. This is a White List, i.e. the client listens <i>only</i> on these IPs. Each IP address must be one line.	reg_multi_sz	none
RestrictGUI	Allows restriction of the ThinPrint Client GUI through GPO. Bit 0: Hide GUI completely. If the bit is set (= 1) the tray icon of the client will not be shown.	reg_dword	0
StartDelay	Time to wait after starting the ThinPrint Client (in seconds). During this time, the client doesn't accept any TCP connections nor processes any other work.	reg_dword	0

Further information on the single entries can be found in the respective sections of this guide and of the technical information *Preconfiguration and unattended installation of ThinPrint Client Windows*.

How can I suppress incorrect print jobs?

Environment

- Server central
- Satellite offices with local print server (and own administrator)
- Local print server serves, configured for Connection Service support

Scenario

The local administrator deletes printers on the local print server without informing the central administrator; or, a printer is configured with an incorrect printer ID on the central server.

What happens? ThinPrint print jobs that are sent to a printer which no longer exists or to an incorrect printer ID on the local print server are rerouted to the *current printer* listed in ThinPrint Clients Service Windows.

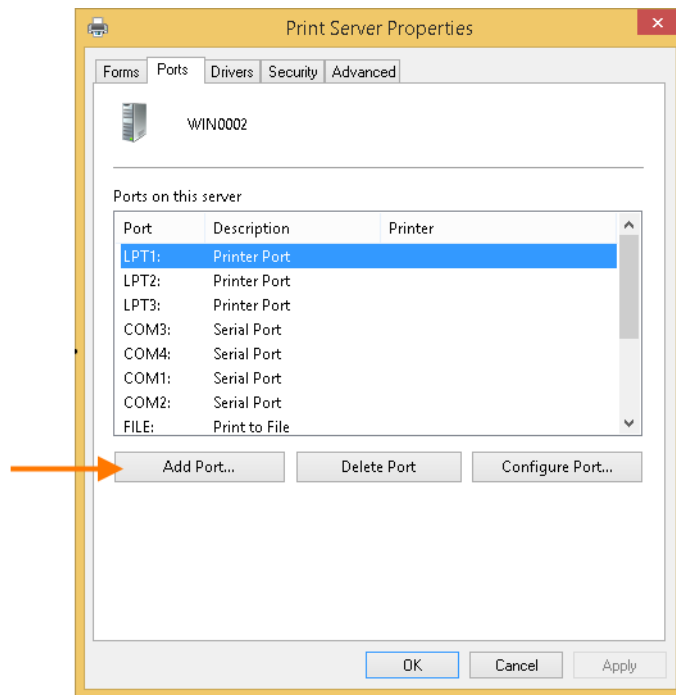
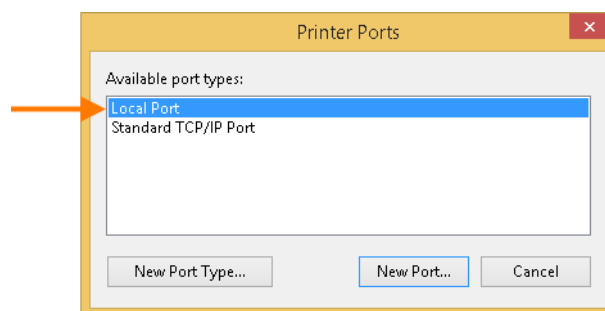
If printout of the “wrong documents” from the *current printer* is not desired, unwanted print jobs can be deleted automatically. Specify this as follows:

Solution

Create a printer that refers to **null** on the local print server and set it as *current printer*.

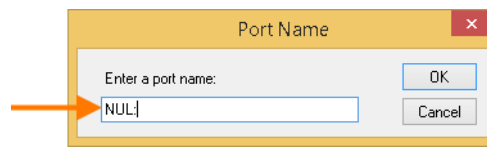
Procedure⁷

1. Open the PRINTERS panel.
2. Do not select a printer. Select FILE → SERVER PROPERTIES.
This opens the window PRINT SERVER PROPERTIES (Illus. 28).
3. All available printer ports are listed on the PORTS tab.
If a “NUL:” port is already available, the panel can be closed. Otherwise, the port must be created using the ADD button (Illus. 29).
4. Mark the LOCAL PORT, and click NEW PORT.

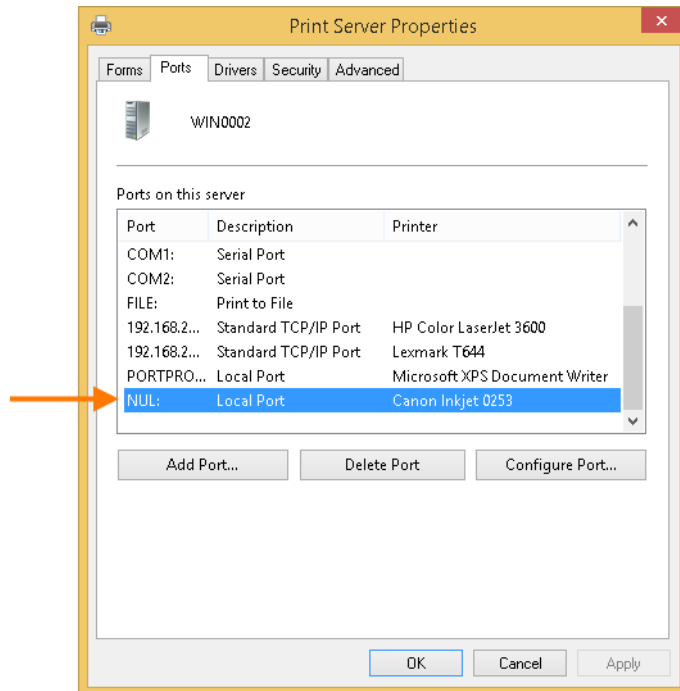
**Illus. 28** adding a printer port**Illus. 29** new Local Port

5. Enter **NUL:** as port name (Illus. 30).
6. Close all dialogues with OK.
7. Associate an unused printer with the port “NUL:” – for example, CANON INKJET 0253 (Illus. 31).
8. Set this unused printer as *current printer* in ThinPrint Clients Service Windows (Illus. 32).

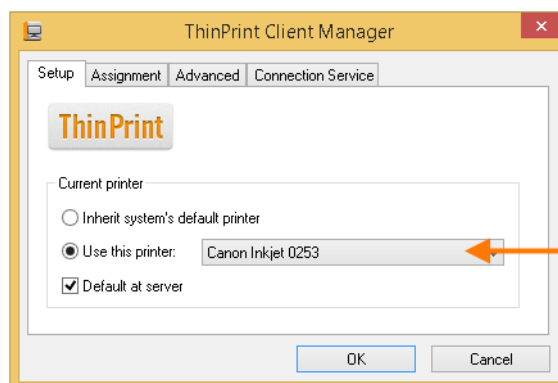
⁷ with Windows XP as example



Illus. 30 printer port name: NUL:



Illus. 31 associating an unused printer with the NUL: port



Illus. 32 defining an unused printer as *current printer*