

Printer Redirection HOWTO

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Overview

(Printer redirection) ?

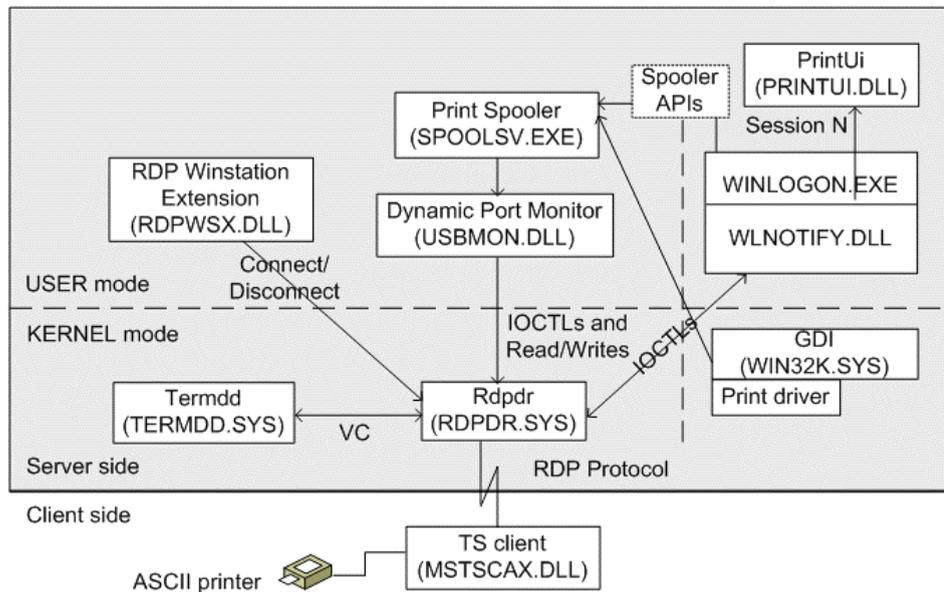
가

가

Windows 2000 .NET

(Printer redirection)

1.



1

I. Rdpdr

I/O

가

II. WINLOGON

가

WLNOTIFY.DLL . WLNOTIFY.DLL Connect, Disconnet, logoff

function 가

WLNOFIFY.DLL

III. Spooler

(Print job)

RAW

IV. USBMON

USBMON Spooler가
, RDPDR.SYS

RAW

RDPRDR.SYS

V. MSTSCAX

RAW

2.

I. Remote printer (1)

i. Winlogon

WLNOTIFY.DLL

ii.

가 RDPDR.SYS

iii. COM LPT

USBMON.DLL

iv. RDPDR.SYS

WLNOTIFY.DLL

v. WLNOTIFY.DLL

Spooler API

[queue name]/[client machine name]/[session number]

Local Printer Queue Name/CLIENT1/Session 1

II.

i.

ii.

가

Spooler

iii.

Spooler

가

가 TS port

(USBMON.DLL)

RDPRDR.SYS

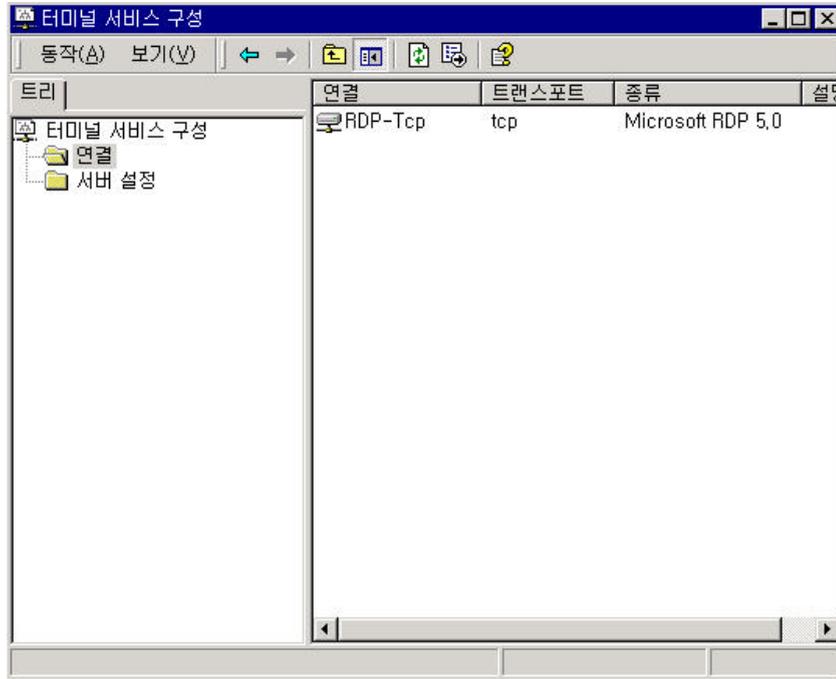
iv.

RDPRDR.SYS

III. Remote printer

- i. session disconnect logoff , RDPDR.SYS
WLNODIFY.DLL
- ii. WLNODIFY.DLL

[] RDP



3

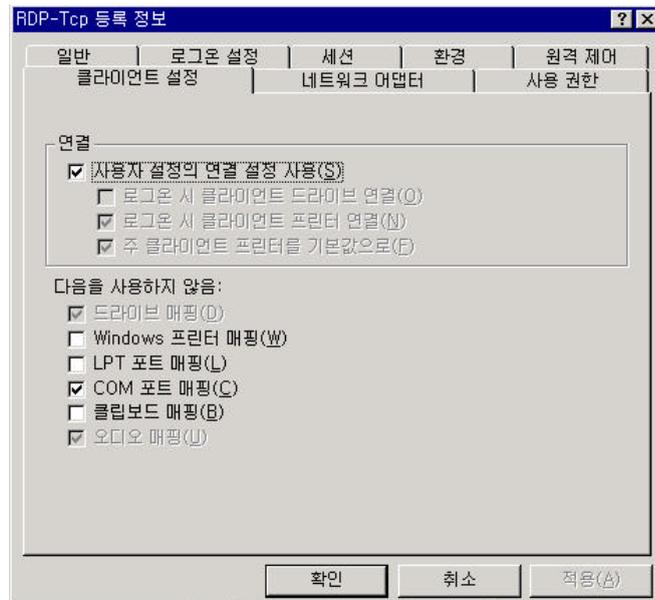
3

RDP - Tcp

[]

Windows

, LPT



4 RDP - Tcp (:)

1. windows 2000, XP, NT

LPT, COM, USB

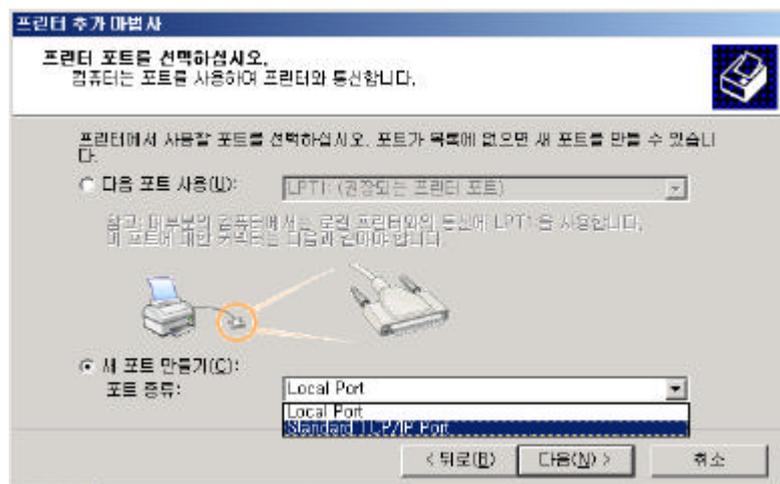
Network

가 가

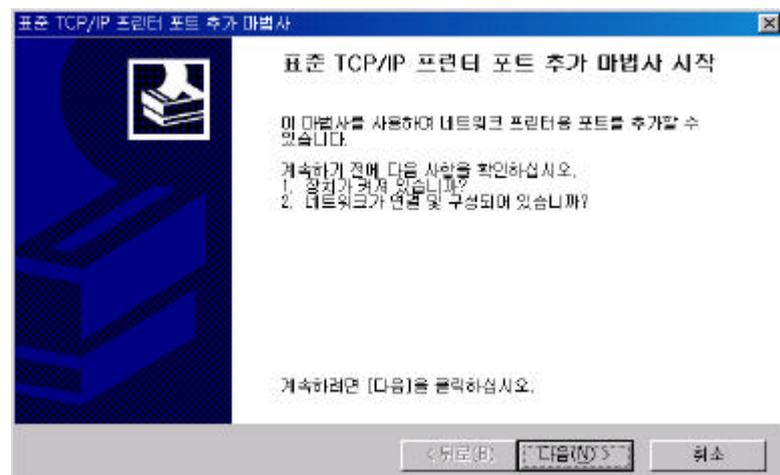
.(: HOWTO

)

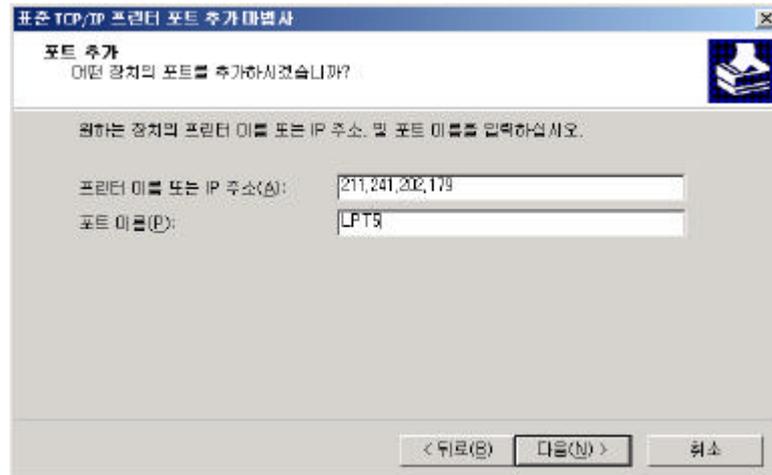
I. TCP/IP port



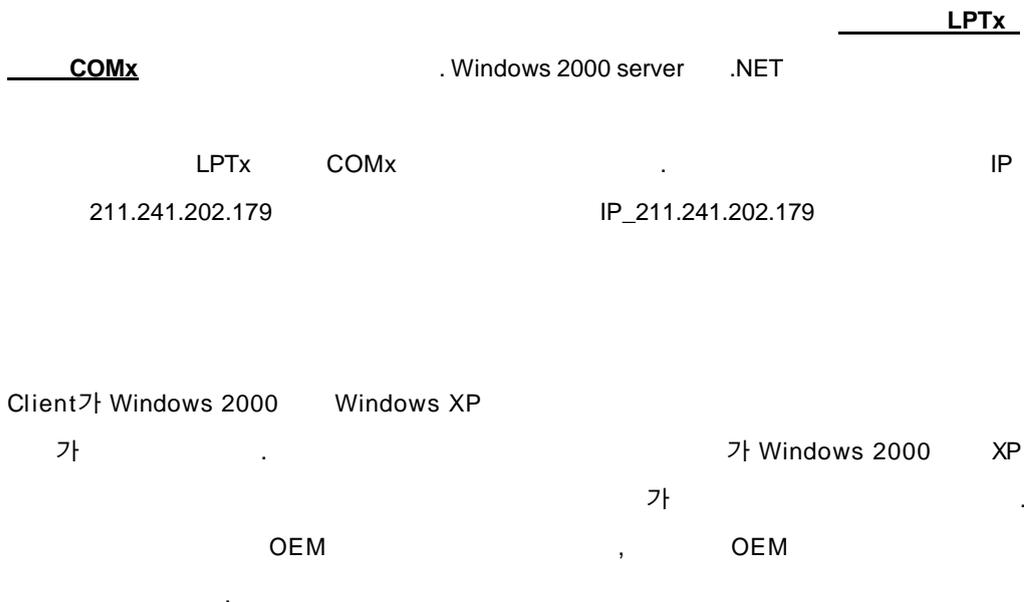
5 Standard TCP/IP port



6 가



7



II.

lpt(x)

```
net use lpt(x) \\ <servername> \ printer /persistent:yes
```

2. Windows 9x(95, 98 , Millennium)

I. TCP/IP port

Windows 95, Windows 98 TCP/IP

TCP/IP 가

windows 95, windows 98

TCP/IP 가

LPTx, COMx

II.

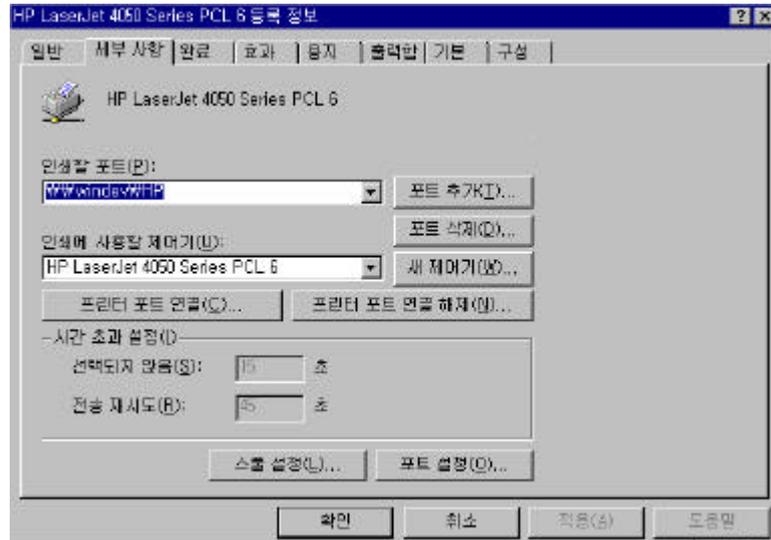
1. [] (Details)

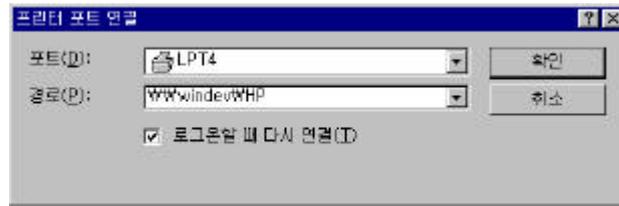
2. [(Capture Printer Port)]

(Capture Printer Port)]

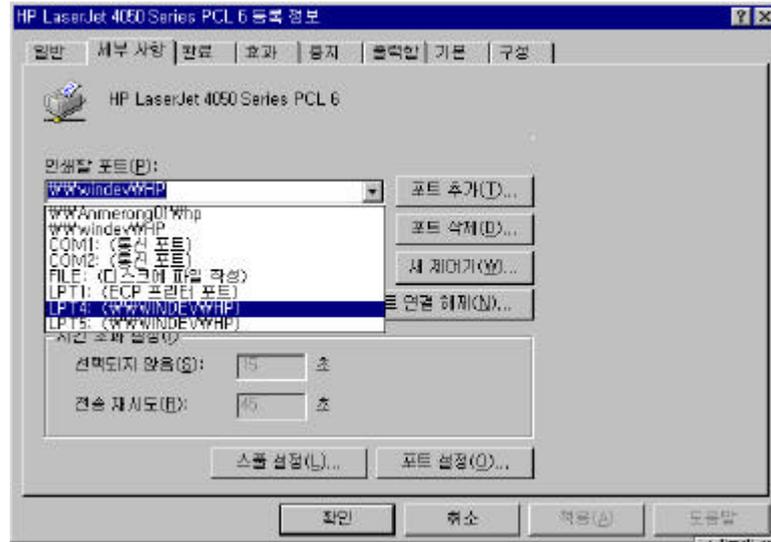
3.

.(LPT4)

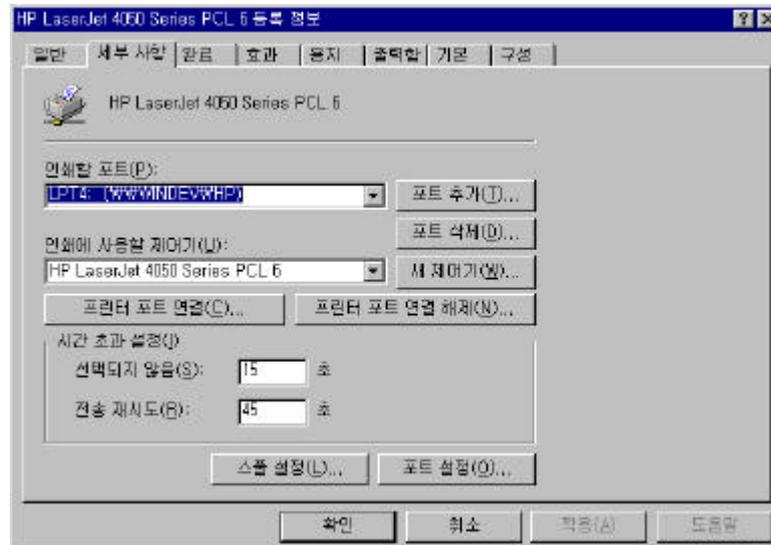




9 LPTx



10



11

Windows 2000 / XP Windows가 가 OEM
 가 (Driver string)
 가

가 가
 . (Third-party)
 (Printer Driver string)
 가 . .

1.

Type	Event ID	Description
Error	1111	가 .
Error	1105	.
Error	1106	.

2. 가

I. 가
 (Third-party)
 Windows 2000 가 .

II. 가
 가 가
 ,
 Ntprint.inf 가
 가 .

Windows 2000 SP2
 Ntprint.inf 가 . Ntprint.inf Ntprint.inf
 가 가
 . Windows 2000 SP2
 [Windows 2000 SP2] .

Windows 2000 SP2
 Ntprint.inf Ntprint.inf 가 ,
 가 가 .

1. Regedt32.exe .
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server\Wds\rdpwd

2. 가 .
 Name: PrinterMappingINFName
 Type: REG_SZ
 Data: Name of the .inf file to which you want to redirect lookups
 Example: c:\winnt\inf\ntprintsubs.inf

Name: PrinterMappingINFSection
 Type: REG_SZ
 Data: Name of the section in the .inf file to which you want to redirect
 Example: Printers

3. .inf .

```
[Version]
Signature="$CHICAGO$"

[Printers]
"OEM Printer Driver Name" = "Windows 2000 Printer Driver
Name"
```

```
      ("HP DeskJet 720C Series v10.3" = "HP
DeskJet 722C")
      HP DeskJet 720C Series v10.3
      HP DeskJet 722C      가 .
```

3.

I. Windows 2000

Windows NT

Windows 2000

User mode

Windows NT

Kernel mode

, Windows 2000 NT

가

,

가

가

.

,

Windows 2000

.

II.

가 5~10

가

5~10

,

가

.

,

Ntprint.inf

(Registry)

,

Explorer

(Registry)

III.

RDP

,

가

,

(Caching)

,

.

Reference

1. Msdn, September 2002, Windows 2000 Terminal Services Printer Redirection white Paper
2. Technical Information, July 2002, Events 1111, 1105, and 1106 on Terminal Service Service Sever[Q239088]
3. Technical Information, July 2002, Windows 2000 Terminal Services Does Not Redirect Network Printer[Q264039]
4. Technical Information, July 2002, Terminal Server Hangs for 5-10 Seconds When a New User Logs On[Q307931]
5. Technical Information, July 2002, Non -Default Printer Properties Not Used in Redirected Printer[Q291251]
6. Terminal Server logs Event ID 1103 in System Event Log[Q276532]