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Q. Sharing printers between Unix and NT / 2000 / XP.

NT machine can be used as a gateway for 2 way printing between windows (all versions) HP9000 UNIX system or an HP-UX System V 10.x system.

Setting up NT 4 (only) for TCP/IP printing

1. Login as a member of the Administrators Group
2. Start Control Panel
3. Double Click Network, and select the Services tab
4. Click Add, and select "Microsoft TCP/IP printing"
5. Click OK and then Close
6. Click "No" to delay reboot
7. TCP/IP Print server service must be set to start automatically (Start - Settings - Control Panel - Services - TCP/IP Print Server - Startup - Automatic)
8. Reboot the system

Adding a remote print queue on NT / 2000 / XP

1. Double Click "My Computer"
2. Double click Printers, and select Add Printer
3. Select "Printer is a local printer", and then continue
4. Click Add Port, and select "LPR port"
5. Click New Port and fill in the IP address of the printer (or name from local hosts table) in the top box, enter the remote queue name in the bottom box
6. Click Next and then select the printer driver
7. Click Next and select if you want to share it, and then click Finish
8. To authorize prints from this NT machine, as root edit "/etc/hosts.lpd"
9. Add the NT machine's IP address (or name if it has an entry in the Unix machine's hosts table)

Sharing NT / 2000 / XP printers with unix machines

It is necessary to add a registry key as for UNIX to successfully pass data to an NT server the data type must be set to RAW.

1. Start the registry editor (regedit.exe)



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2. Move to
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LPDSVC\Parameters
3. From the Edit menu select New - DWORD value
4. Enter a name of SimulatePassThrough and press Enter
5. Double click the new value and set to 1. Click OK

The default value for SimulatePassThrough is 0, which informs LPD to assign data types according to the control commands.

1. Close the registry editor
2. Start – Settings – Printers
3. Right click on printer to be shared
4. Select properties
5. Select shared tab
6. Select shared
7. Enter share name (this is what the unix machine will see it as)
8. Select Security tab
9. Select Permissions
10. Ensure unix users have permissions to print, either by "everyone" or "network" having permission (Print is all that is required)
11. Click OK

Create a queue on the unix machine as normal, for a text only print queue on HP9000 use:

The command below only needs to be entered once by technical staff.

It is strongly recommended that you configure your remote printer using the System Administration Manager (SAM). Configuring printers manually on an HP9000 is extremely difficult to do correctly. To install a printer using SAM, follow these steps:

1. Log in as Superuser/Root, and launch SAM.
2. Open LP Spooler, then Printers and Plotters.
3. From the pulldown menus, choose Actions.
4. Choose Add Remote Printer/Plotter from the Actions menu. Do not choose Add Network-Based Printer/Plotter. There are several fields for adding information about the printer:



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- Printer Name -- is the name you give to the printer queue on the HP 9000 running SAM.
 - Remote System Name -- is the name or IP address of the remote PC. If you use the PC's name, it must be in the HP 9000's hosts file or configured on the Domain Name Server (DNS).
 - Remote Printer Name -- This name should match the Queue Name already setup in the remote NT.
 - Check the Remote Printer is on a BSD System checkbox.
 - Fill in the optional fields as desired.
5. Click OK to finish the configuration.
 6. Exit SAM.

Using an NT / 2000 / XP machine as a Windows - Unix print gateway

1. Add any unix printers you wish to share to NT machine as shown above.
2. Share them out as if they were normal print queues.
3. Add them to all the clients you wish to print to them from
4. Share out any clients you wish to print from on the unix machine(s) as normal
5. Add these shared windows printers to the NT machine as normal.
6. Share them out to the unix machine(s) as shown above