

IST 251 – Chapter 6 – Printers and Printing in XP Professional

Printing Terms

Print Device (Printer) – a hardware device that puts text and/or images on paper or other print media

Printer Port – the software interface through which a computer communicates with a printer by means of locally attached interface. LPT, COM, USB, FIREWIRE, etc.

Printer Server – the computer that manages one or more printers on a network

Printer Driver – a file or a set of files containing information that XP requires to convert print commands in to a specific printer language, such as PostScript.

Printing in Windows 2000

Printer – NOT the hardware device that produces printed documents, but to the software interface between the operating system and the print device

Print device – the hardware device that produces printed documents.

- **Local print devices** – those connected to a physical port on the print server
- **Network print devices** – those connected to a print server using the network instead of a physical port
- **Print Server** – the computer on which the printers associated with local and network print devices reside.
- **Printer driver** – one or more files containing info that Windows 2000 users to convert application print commands into Page Description Language, such as PostScript.

Requirements for network printing

1. at least 1 computer must operate as a print server
2. sufficient RAM to process many documents
3. sufficient disk space to store documents before they are printed in the Queue

4 basic printer configurations are

1. non-remote, local print device
2. non-remote, network print device
3. a remote, local print device
4. a remote, network print device

Creating a printer – installing the print device either directly on a print server or on the network, and then configuring the printer software that controls the print device on the print server

Connecting to a printer means connecting to the share on the computer that created the printer

Installing and sharing printers – Exercise 5.2

Administering network printers

The primary print management tool is the Printers window

Installing additional print drivers. When printers are installed the first time they use drivers for Windows 2000, but if it is shared on a network, it might need drivers for other operating systems, such as windows 98 or XP. At this time you should install additional print drivers.

LPR Port – Line Printer Remote – used for computers that need to communicate with UNIX or VAX host computers in accordance with request for comments.

Setting a separator page – a file that contains print device commands. These perform 2 functions.

1. they identify and separate printed documents (waste paper)
2. they switch between print modes.

Windows 2000 uses 4 separator files.

1. pcl.sep – switches the print mode to PCL for HP-series print devices and prints a page before each document
2. pscript.sep – switches the print mode to Postscript for HP-series print devices but does NOT print a page before each document
3. sysprint.sep – prints a page before each document – compatible with PostScript print devices
4. sysprtj.sep – a version of sysprint.sep that uses Japanese characters

Pausing, restarting, resuming or canceling documents

- in the printer window, select the printer (double-click) the select pause, resume or cancel all. To remove a single print job, select it and right-click and delete

redirecting jobs to a different printer

- it can be done, but you must redirect all of them to the new printer, not a single document, and it must be the same type of printer, or at least use the same driver

setting notification, priority and printing time.

- you can notify someone that a job has been cancelled
- you can change the printing priority or specify a time to print the document
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Administrating printers from a web browser. To be able to do this, the computer in which the printer is installed must have IIS running on it. There are several advantages to this

1. you can administer printers from any computer running a web browser.
2. you can customize the web interface (make a floor plan showing where the printers are located)
3. provides a summary listing of all of the printers status
4. can report real-time print device data.

A Printer pool – one printer is connected to multiple print devices, each using a different port on the print server. Printers will process the job determining on which print device becomes available first.

All you do is add more ports and select the "Enable printer Pooling" box

Controlling printer access by using **printer permissions**. You can controller what users can do.
There are 3 permissions

1. **print** – print, pause, restart, resume and cancel print jobs from the user/group
2. **manage printers** – perform all task on that specific printer
3. **manage documents** – add printers, share them, and manage printers