

AnyQueue/PageSorter®

V1.0

Installation and User's Guide

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What To Do Before You Call

Many questions can be answered by studying the proper sections of this manual. Also, review any README files on the product diskette or Help files created during the install process.

Verify that your hardware and software is configured according to the recommendations described in this manual. If you continue to have trouble in configuration or operation, please attempt to write down a detailed description of the problem, when it occurs, and the steps necessary to repeat it.

For example:

- Has the software worked correctly at any time before the problem?
If yes, what has been changed?
- Can you reproduce the problem?
If yes, what steps were taken to produce the problem?
- Did any messages appear?
If yes, record all of the information.

When You Call

Please have the following information ready when calling for technical support:

- A. Customer ID, Company name, and Product name.
- B. Product version number. The version number for AnyQueue/PageSorter can be obtained by accessing the log, running the program with the /? Option, or from the original product diskette.
- C. Computer brand, model, and the brands and model numbers of any additional hardware.
- D. PC Operating system and version number.
- E. Contents of your configuration file.

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Summary of Releases

The following table contains the release numbers assigned to AnyQueue/PageSorter.

Release	Page
AnyQueue/PageSorter V1.0.001	page x
AnyQueue/PageSorter V1.0.002	page x
AnyQueue/PageSorter V1.0.003	page x
AnyQueue/PageSorter V1.0.004	page x
AnyQueue/PageSorter V1.0.005	page x
AnyQueue/PageSorter V1.0.006	page x
AnyQueue/PageSorter V1.0.007	page x
AnyQueue/PageSorter V1.0.008	page x
AnyQueue/PageSorter V1.0.009	page x
AnyQueue/PageSorter V1.0.010	page xi
AnyQueue/PageSorter V1.0.012	page xi
AnyQueue/PageSorter V1.0.013	page xi
AnyQueue/PageSorter V1.0.014	page xi
AnyQueue/PageSorter V1.0.015	page xi
AnyQueue/PageSorter V1.0.016	page xi
AnyQueue/PageSorter V1.0.017	page xi
AnyQueue/PageSorter V1.0.018	page xi
AnyQueue/PageSorter V1.0.019	page xi

AnyQueue/PageSorter V1.0.001

- Reordering of reports fixed. It would look correct, but when you saved and got back in, the order would be incorrect.
- Tabbing would not work unless you clicked on the screen outside of any of the fields.

AnyQueue/PageSorter V1.0.002

- Creating numerically incremented files of more than one position could cause a trap.

AnyQueue/PageSorter V1.0.003

- Creating a config file that has a null value for the Compare Value of an Identification record could cause a trap.
- The copies attribute will now default to 1 in .VPR files.

AnyQueue/PageSorter V1.0.004

- Copies was being set wrong.

AnyQueue/PageSorter V1.0.005

- A variable col Ident record that encountered a report with no lines long enough to test would loop.
- Extraction of fields on overprint lines could return an incorrect value. For consistency the rule for extraction is this:

If the line is comprised of overprint lines, the first sub line that is long enough to include at least one character for extraction will be used.

AnyQueue/PageSorter V1.0.006

- Maximum page size has been increased to 512k.

AnyQueue/PageSorter V1.0.007

- `/info` flag has been added to aid in the implementation. It will add additional information to the log file.
- ASA carriage control has been added as an option for output to AnyQueue destinations. This will allow AnyQueue to override carriage control on reports from AnyQueue/PageSorter.

AnyQueue/PageSorter V1.0.008

- Support for Dynamic Identification records has been added.
- Default attributes can be set with command line parameters.

AnyQueue/PageSorter V1.0.009

- When you would create new objects, the configurator would not always ask you to save when exiting.
- If there is an error processing the files, an attempt will be made to delete any AnyQueue format files.
- The Configurator window size will not be saved minimized.

AnyQueue/PageSorter V1.0.010

- You can now close a report in the Configurator.
Note: With AnyQueue/PageSorter 1.0.010 the key is no longer entered during installation. In the Configurator (npsrtcfg) there is an Engine pull down on the menu bar that is used to enter or change the product key.

AnyQueue/PageSorter V1.0.012

- AnyQueue Destination files now include an identifier so AnyQueue knows they are already in ASCII format. When being delivered by a route that has the Translate flag specified, the translation will be ignored.
- Multiple Identification blocks can now be created for a single report definition. They will be processed in order, one at a time, until one of the blocks match, or the last one is checked.
Note: AnyQueue/PageSorter 1.0.012 requires a new format for your configuration files. Only "Save" from the Configurator will actually write the new format out. Once the new format has been written, older versions of AnyQueue/PageSorter will not be able to access them.

AnyQueue/PageSorter V1.0.013

- **Discard First Page** flag added to Destinations.

AnyQueue/PageSorter V1.0.014

- Drag and Drop operations could corrupt the configuration file.

AnyQueue/PageSorter V1.0.015

- AnyQueue destinations would truncate the last byte of a report if the line contained no carriage control information.

AnyQueue/PageSorter V1.0.016

- Extra Form Feeds could be kept on AnyQueue destinations.

AnyQueue/PageSorter V1.0.017

- Increased the max size of the configuration file from 1 meg to 2 meg.

AnyQueue/PageSorter V1.0.018

- If an AnyQueue Destination was be saved with the check box **Discard 1st Page** checked, the next time the configuration file was opened the Attributes branch of the tree would not show in the configurator.
- If a configuration file and report is opened and the user tries to switch to another configuration file the configurator could trap (GPF).

AnyQueue/PageSorter V1.0.019

- Increased the max size of the configuration file from 2 meg to 9 meg.
- In Version 1.0.18 the engine (nps.exe) would not get copied over a previous version during an upgrade.



Chapter 1 Overview

Description

AnyQueue/PageSorter[®] runs on a personal computer and its purpose is to identify and extract reports from an ASCII input file, generating one or more output files.

AnyQueue/PageSorter uses a configuration file. Within this configuration file, **Report Definitions** are defined which contain **Identification Records** that determine how to create separate reports from a multi-page report.

For instance, now you may have a report that is generated every month. After the report has been generated and printed, someone must manually sort through the report and separate it by Divisions.

Using AnyQueue/PageSorter the entire process can be automated. (See [Figure 1-1](#) below.)

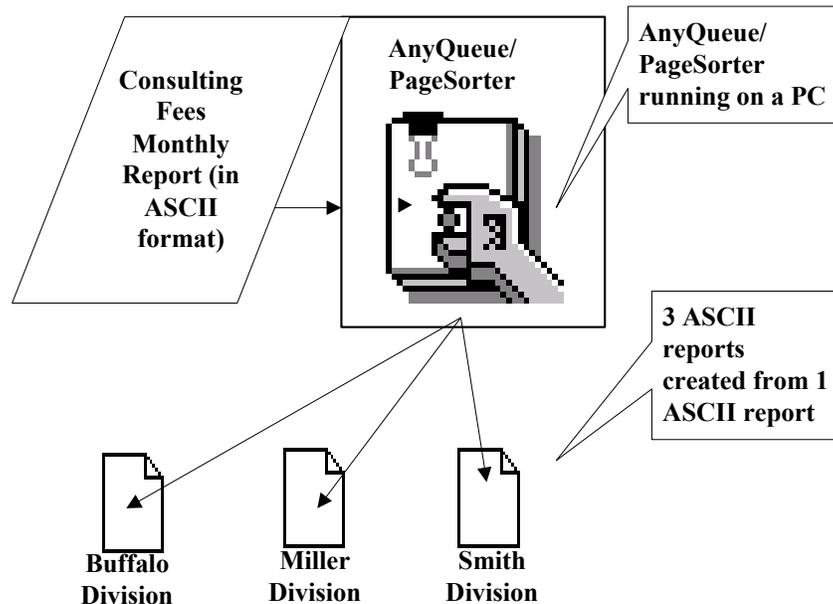


Figure 1-1: AnyQueue/PageSorter diagram

Destination Records

The process is taken a step further by creating **Destination Records** within the Report Definition. Destination Records tell AnyQueue/PageSorter where each individual report should be placed.

There are two types of Destination Records – Standard and AnyQueue. You can define as many Destination Records as you need to produce the required number of copies.

Standard types give the fully qualified path where the new reports should be placed.

AnyQueue types can be used if the LRS AnyQueue product should receive the new reports. The new reports can be sent to a directory that AnyQueue monitors and, based upon Route definitions within VPS/Any-Queue, the reports can be sent to an e-mail recipient, a LAN printer, an LPD, a file, etc.

In [Figure 1-2 on page 1.3](#), the Buffalo report (Buffalo.VPR) could be sent to an e-mail user; the Miller report (Miller.VPR) could be sent to a LAN print queue; and the Smith report (Smith.VPR) could be sent to a file on a network drive.

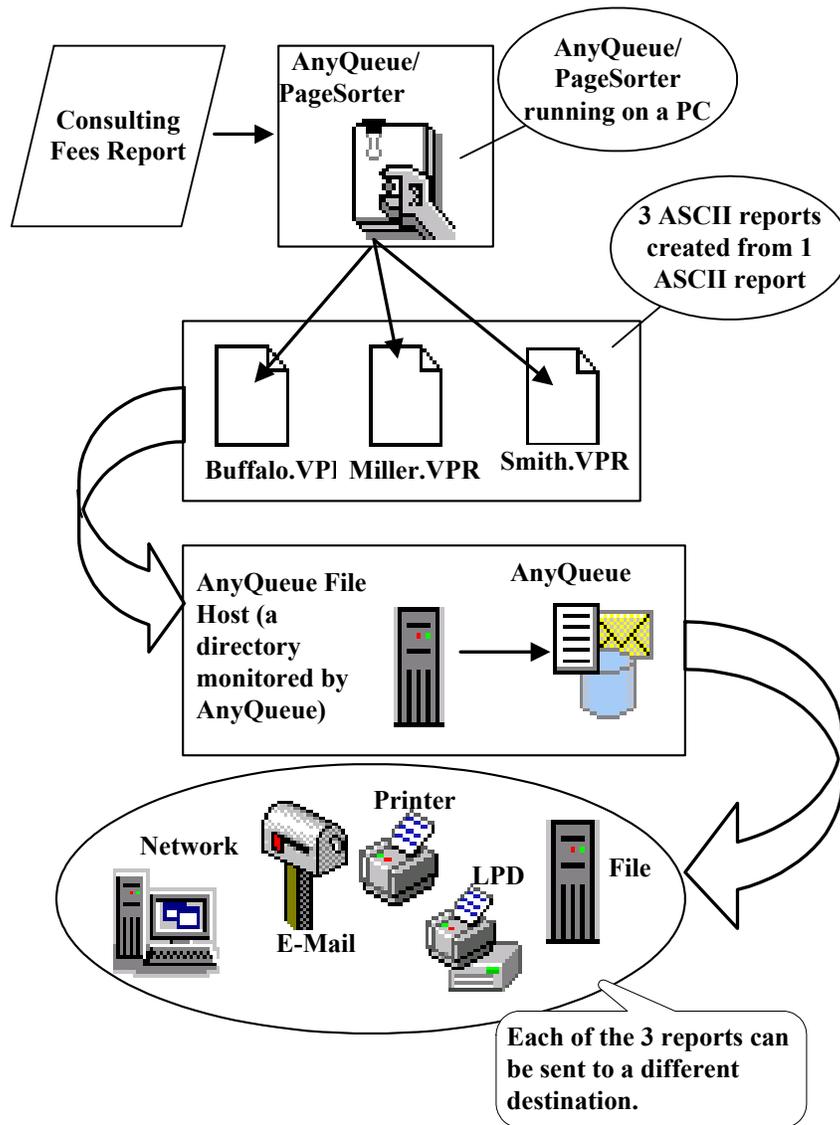


Figure 1-2: AnyQueue/PageSorter sending to AnyQueue

Can AnyQueue/PageSorter receive files from AnyQueue?

Yes, AnyQueue/PageSorter can receive files from AnyQueue as well as send files to AnyQueue.

Looking back at [Figure 1-2](#), AnyQueue/PageSorter sent the Division reports to AnyQueue and AnyQueue then distributed the reports.

Let's say the initial report (before it was sorted) was generated by an application on a mainframe. You could:

1. Send the report on the mainframe to a VPS printer that has a connection with AnyQueue (the connection can be APPC or TCP/IP);
2. AnyQueue will receive the file and, based upon attributes on the file, send it to a Route definition that has a Backend defined to send the file to AnyQueue/PageSorter;
3. AnyQueue/PageSorter would sort the report into Division reports;
4. AnyQueue/PageSorter would then send the Division reports back to AnyQueue to be distributed.

See [Figure 1-3 on page 1.5](#) for a diagram detailing the flow of the initial report.

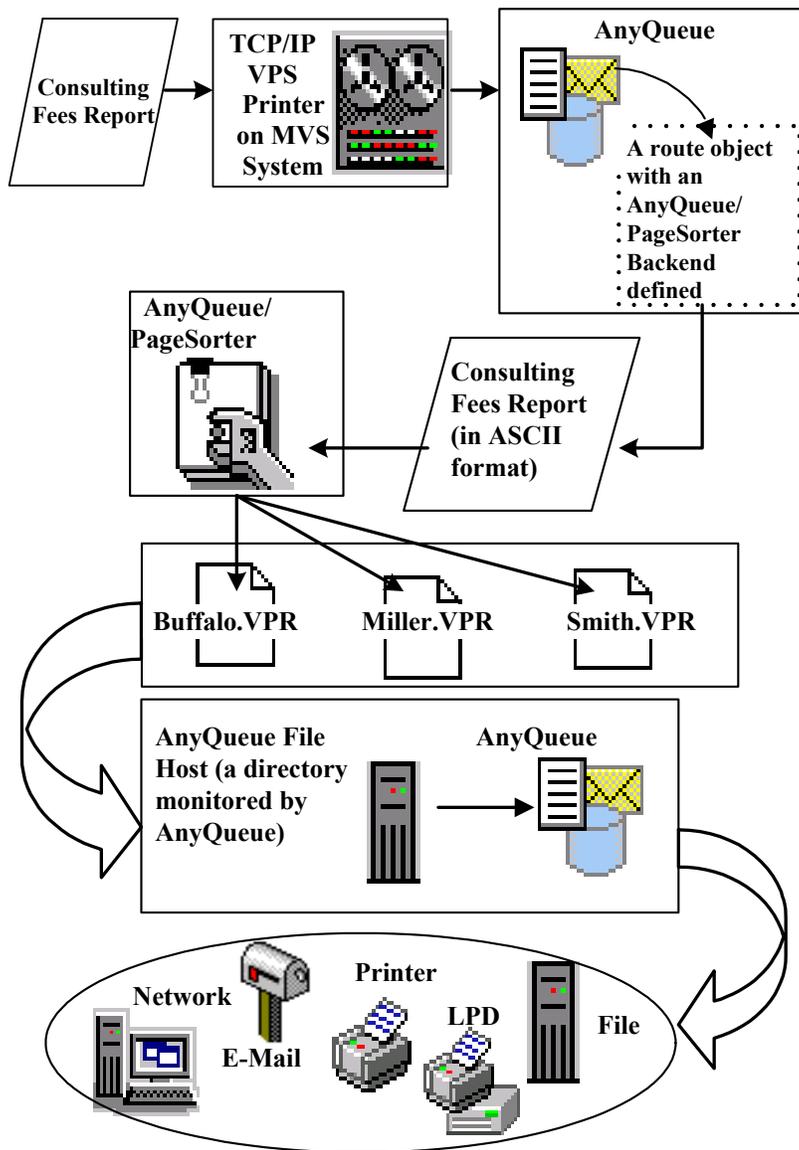


Figure 1-3: AnyQueue/PageSorter receiving files from AnyQueue

More information

The previous pages in this section have given you a basic overview of how AnyQueue/PageSorter works and how it can be used with AnyQueue. For more information on AnyQueue, please contact your LRS Marketing Representative or, if you already have the product, see the AnyQueue Installation and User's Guide.

Section 2 in this manual will lead you through the process of installing AnyQueue/PageSorter.

Section 3 gives detailed instructions on creating a AnyQueue/PageSorter configuration file.

Section 4 will explain how to operate AnyQueue/PageSorter.

Chapter 2 Installation

Install Procedure

Follow the steps below to begin the installation procedure.

STEP	PROCEDURE
1	Insert AnyQueue/PageSorter [®] installation disk into the diskette drive and make that drive the current drive. (Example: A: <ENTER>) Note: If you do not make 'A' the current drive, on-line help will not be available.
2	Execute the installation program – NPSINST.EXE Result: The AnyQueue/PageSorter Installation dialog will appear.
3	Add the LRS product key.

Diagram

Figure 2-1 below illustrates the screen that will appear after executing NPSINST.EXE.

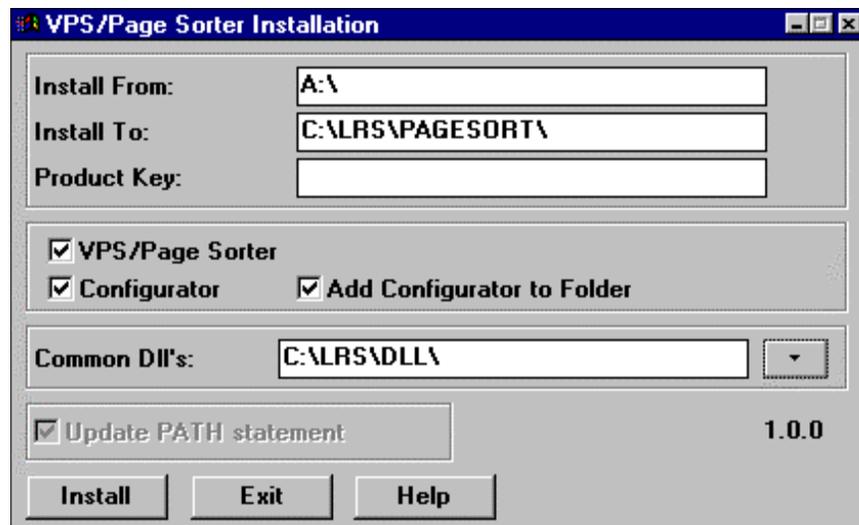


Figure 2-1: AnyQueue/PageSorter Installation dialog

continued on next page

AnyQueue/PageSorter Installation, continued

Continue with the table below for an explanation of each field on the dialog.

FIELDS	DESCRIPTION
Install From	The location of the installation files.
Install To	The location where the executable and help files should be copied.
Product Key:	The product key provided by Levi, Ray & Shoup for AnyQueue/PageSorter.
Common DLL Location	The directory where the DLL files should be copied.

CHECK BOXES	DESCRIPTION
The check boxes indicate which components to install and if program items should be created for them.	
AnyQueue/Page-Sorter	Install the AnyQueue/PageSorter program.
Configurator	Install the Configurator files.
Add Configurator to Folder	Add Configurator shortcut to folder.
Update PATH statement	Select this box if the path statement on the PC should be updated to include the path to the DLL location. This parameter is unavailable if the DLL LOCATION is found in the PATH environment for NT.

BUTTONS	DESCRIPTION
Install	Decompresses the files and copies them to the Install To and DLL Location specified.
Exit	Cancel the installation.
Help	Display the on-line help.

continued on next page

Uninstalling AnyQueue/PageSorter

NPSINST.EXE To uninstall AnyQueue/PageSorter, run the install executable with the /U flag.

For example: **NPSINST /U**

Diagram [Figure 2-2](#) below illustrates the screen that will appear after executing NPSINST /U.

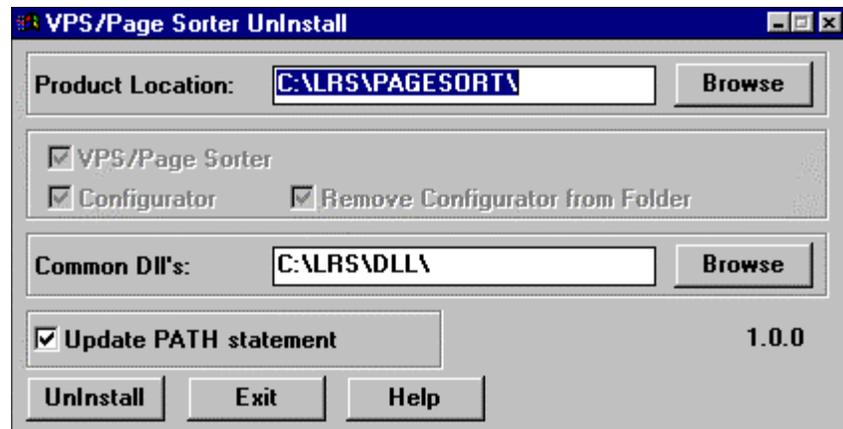


Figure 2-2: AnyQueue/PageSorter Uninstall dialog

Continue with the table below for an explanation of each field on the dialog.

FIELDS	DESCRIPTION
Product Location	The location of the AnyQueue/PageSorter files.
Components to uninstall	Check the appropriate boxes for the components you want to uninstall.
Common DLL's	The directory where the DLL files are located.
Update PATH statement	This parameter is available if the DLL LOCATION is found in the PATH environment for NT. Select the box if the location should be removed from the PATH statement.

BUTTONS	DESCRIPTION
Uninstall	Select this button to uninstall the components selected on the dialog.
Exit	Cancel the uninstall procedure.
Help	Display context sensitive help.



Chapter 3 Configuration

What is the Configurator?

AnyQueue/PageSorter® Configurator is the utility used to create and modify a configuration file to hold Report Definitions that will be used to determine what report each page belongs to.

To execute AnyQueue/PageSorter, select the *AnyQueue/PageSorter Configurator* shortcut that was created during installation.

When AnyQueue/PageSorter Configurator is executed, the screen will look similar to [Figure 3-1](#) below.

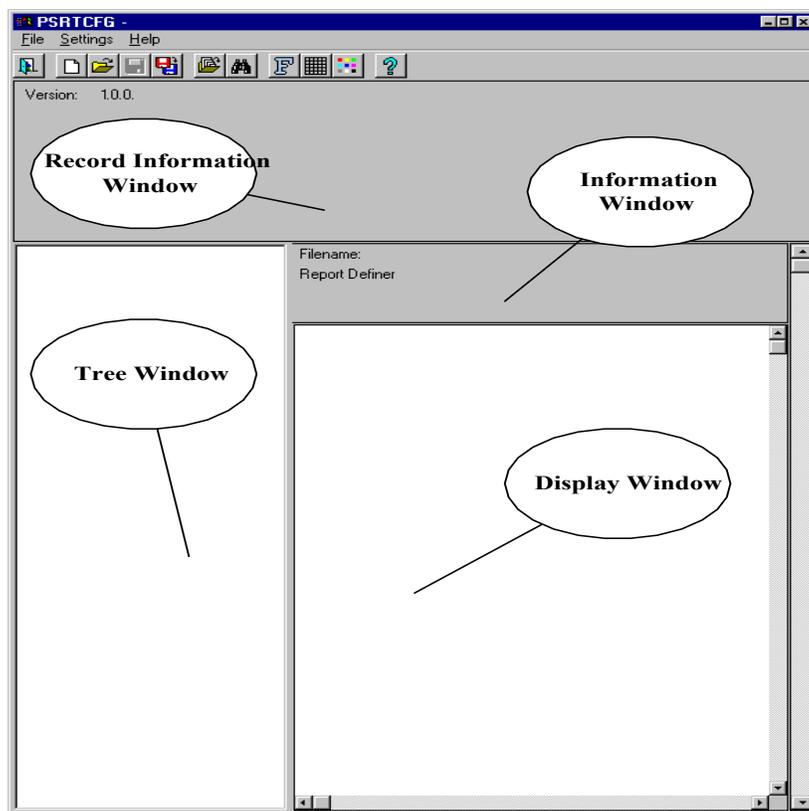


Figure 3-1: AnyQueue/PageSorter Configurator dialog

Menu Options

There are three options at the top of the AnyQueue/PageSorter Configurator dialog:

- File
- Settings
- Help

Select **File** or **Settings** to display more commands in a drop down box.

Select the **Help** command to display the on-line help file for AnyQueue/PageSorter. Help is also available by pressing the F1 key when the cursor is on an item you want information about.

An explanation of the **File** and **Settings** commands begins below.

File Menu

Figure 3-2 below illustrates the commands that are available from the File Menu.

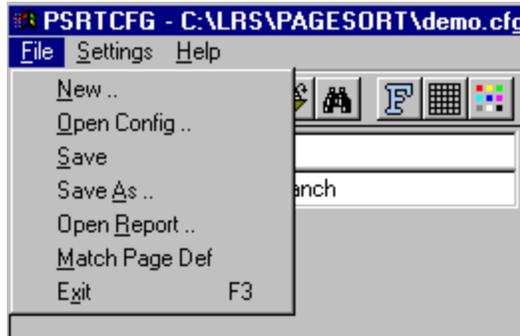


Figure 3-2: Configurator File Menu

New Clears the current configuration from the Tree Window and prepares the dialog to create a new one.

Shortcut icon: 

Open Config Displays an Open File dialog where you can select to open an existing configuration file.

Shortcut icon: 

Save Saves the configuration file that is currently open.

Shortcut icon: 

Save As Prompts you for a new name to save the configuration file as.

Shortcut icon: 

Open Report Displays an Open File dialog where you can select a text file to open for viewing.

Shortcut icon: 

Match Searches the currently loaded configuration file
Page for a matching definition to the text file being
Definition displayed in the Display Window.

Shortcut icon: 

Exit Terminates the program after prompting you to
save any configuration file changes.

Shortcut icon: 

Settings Menu

Figure 3-3 below illustrates the commands that are available from the Settings Menu.

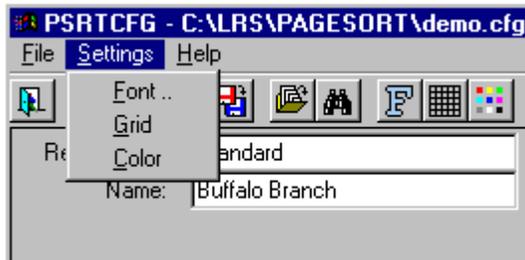


Figure 3-3: Configurator Settings Menu

Font - Displays a Font Selection dialog with only fixed spaced fonts. The font you select will be used in the Display Window. Your fonts may vary on your machine, depending on what is loaded.

Shortcut icon: 

Grid - Displays a grid in the Display Window.

Shortcut icon: 

Color - Displays the Color Settings dialog. You can change the colors for Identification and Attribute text that may be selected in the text file being displayed in the Display Window. If you select **Apply**, your changes will take effect without exiting the Color Settings dialog. Select **OK** to apply the color changes and close the Color Settings dialog.

Shortcut icon: 

Creating a Configuration File

Remember that the configuration file contains **Report Definitions** that are used to sort a multi-page report.

The easiest way to get started is to open the multi-page report you want sorted (in ASCII format). Then you can start selecting data in the ASCII file to create Identification Records.

Demo files

For demonstration purposes in this manual, an ASCII file was copied to the installation directory when AnyQueue/PageSorter was installed. The file name is *consult.txt*. This file contains 3 pages of client information for a consulting company. There are 3 divisions within the one report. *Consult.txt* will be used to demonstrate how AnyQueue/PageSorter can sort the report into 3 reports based upon the Division name.

A configuration file was also copied to the installation directory. That file name is *demo.cfg*. The configuration file (*demo.cfg*) has Report Definitions for the *consult.txt* file. The instructions in this manual will use these files to demonstrate AnyQueue/PageSorter.

Opening a report

After AnyQueue/PageSorter Configurator has been executed by selecting the *AnyQueue/PageSorter Configurator* shortcut that was created during installation:

- Select **File** from the Menu bar on the PSRTCFCG dialog.
- Select **Open Report**. (See [Figure 3-4](#) below.)



Figure 3-4: Configurator “Open Report” option

Selecting a report

On the Open Report dialog, you can change the location for the **Look in** field to find the report.

- For demonstration purposes, select *consult.txt* from the list of files displayed. (See [Figure 3-5](#) below.)

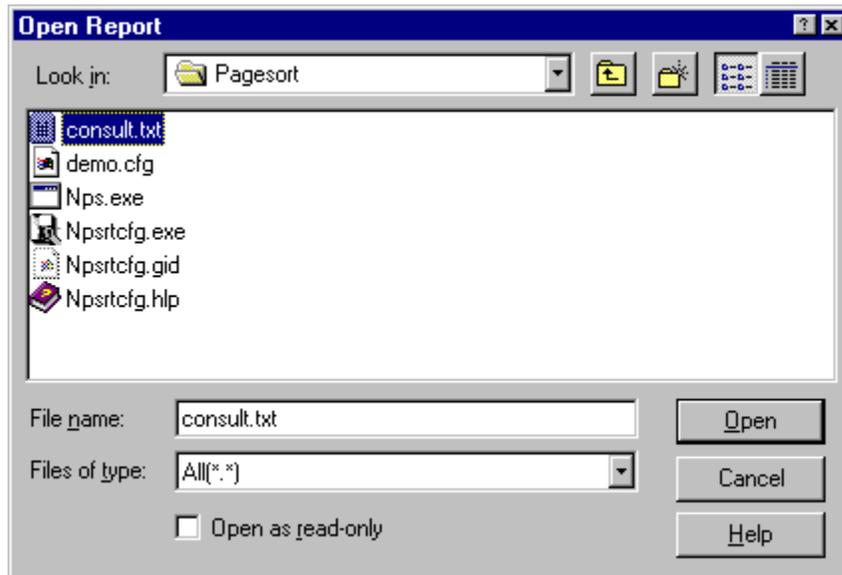


Figure 3-5: Configurator Open Report dialog

Continued on next page

Consult.txt

After opening *consult.txt* the PSRTCFCG dialog will appear as illustrated below.

The first page of the *consult.txt* file will appear in the Display Window.

The *Information Window* above the report will display the file name, page, and line information, cursor location and size information. (See [Figure 3-6](#) below.)

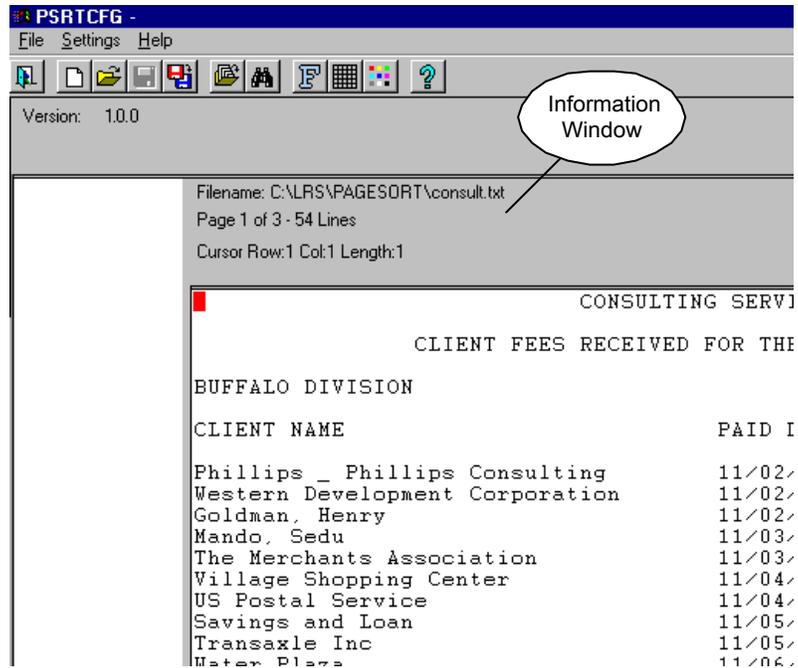


Figure 3-6: Configuration Information Window

Defining a Report Definition

Opening *demo.cfg*

Now that we have a report to work with (*consult.txt*), we can create Report Definitions that will tell AnyQueue/PageSorter how to sort the report. **Note:** Report Definitions can be created without opening the ASCII file if you know the exact location of the text in the file that will be used to create the Identification Records.

To give you an idea of what a Report Definition looks like, follow the steps below to open *demo.cfg* (the configuration file that was copied during installation).

- Select **File** from the Menu bar in the PSRTCFCG dialog.

The dialog will appear as illustrated in [Figure 3-7](#) below.

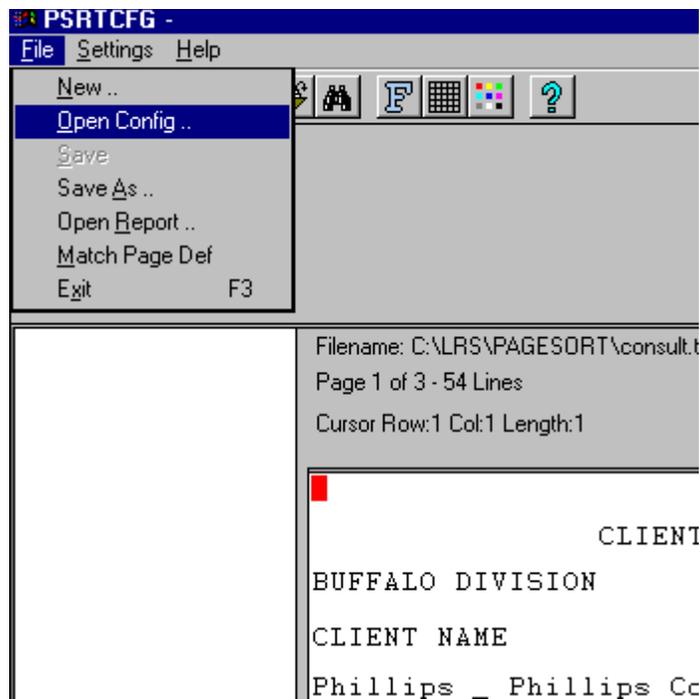


Figure 3-7: Configurator “Open Config” option

Continued on next page

Defining a Report Definition, continued

- Select **Open Config**.
The Open dialog will appear as illustrated in [Figure 3-8](#) below.

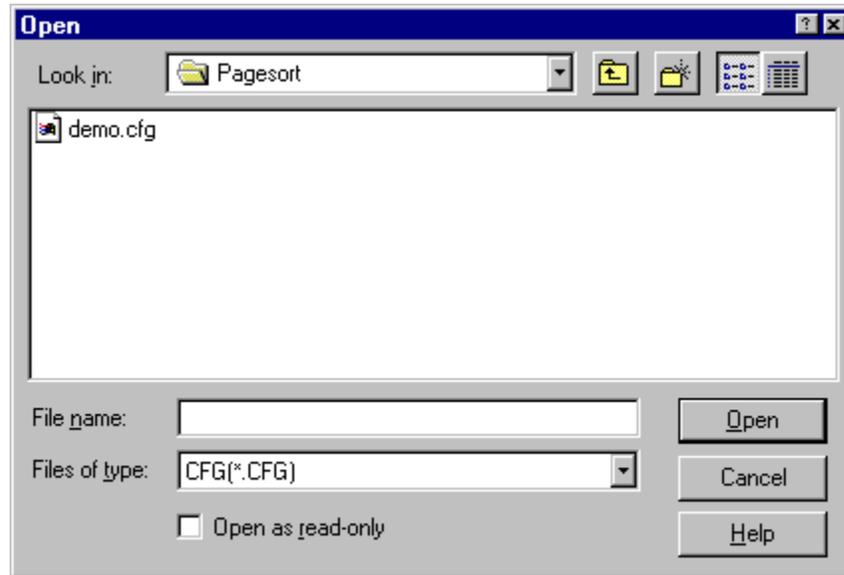


Figure 3-8: Open configuration dialog

Continued on next page

Defining a Report Definition, continued

- Highlight *demo.cfg* and then select the **Open** button on the dialog. The dialog will appear as illustrated in [Figure 3-9](#) below.

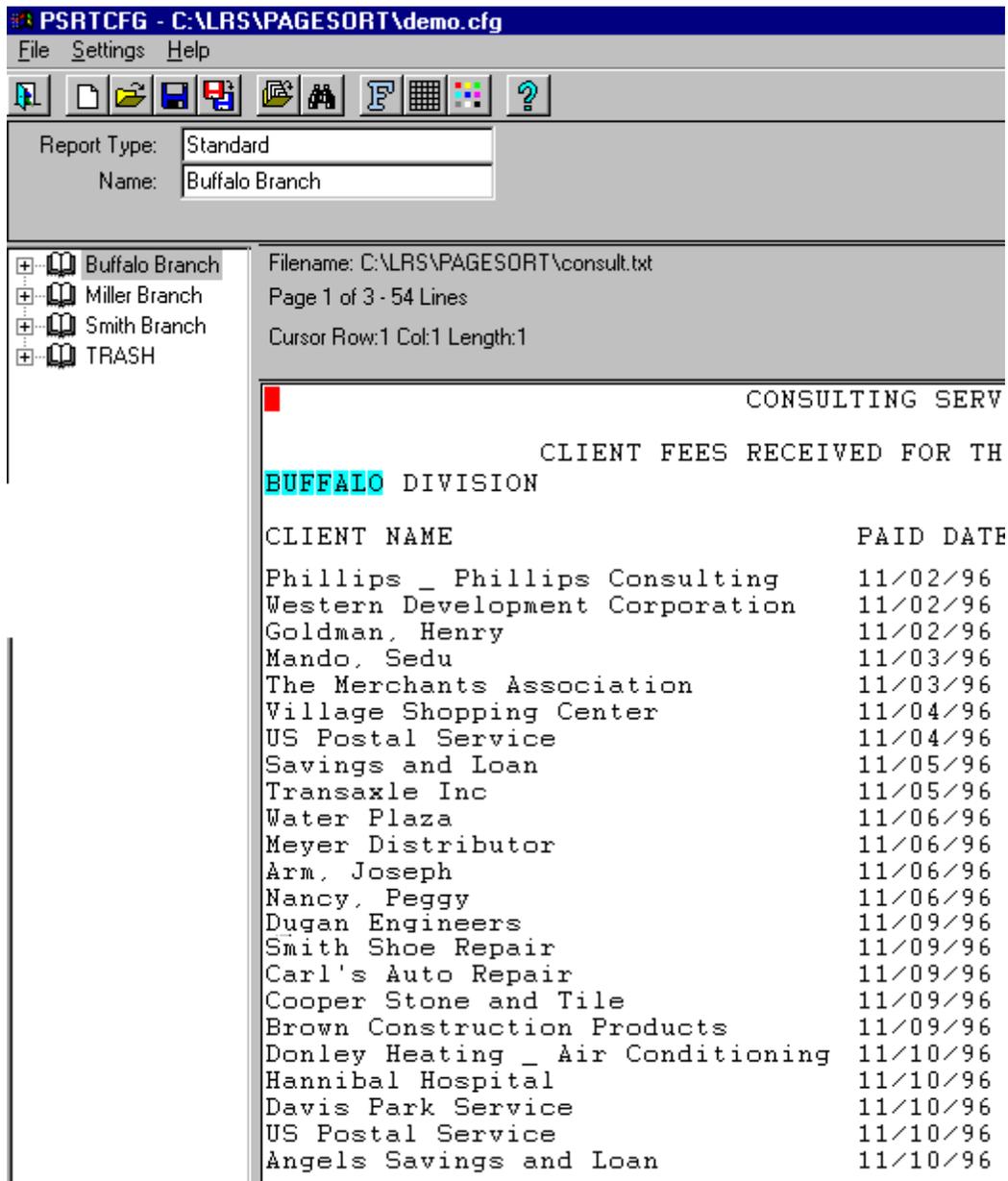


Figure 3-9: Configurator dialog with a .cfg file opened

Defining a Report Definition, continued

Tree Window

The left side of the dialog displays the Tree Window. [Figure 3-10 on page .14](#) shows the following Report Definitions:

- **Buffalo Branch**
- **Miller Branch**
- **Smith Branch**
- **Trash**

Each Report Definition within the tree can be expanded to show their branches by clicking on the + to the left of each Report Definition.

The '+' next to the branch indicates that there are more branches to display.

The '-' next to the branch indicates there are no more branches in the tree.

[Figure 3-10 on page .14](#) shows the *demo.cfg* file with all branches expanded within the tree.

Continued on next page

Defining a Report Definition, continued

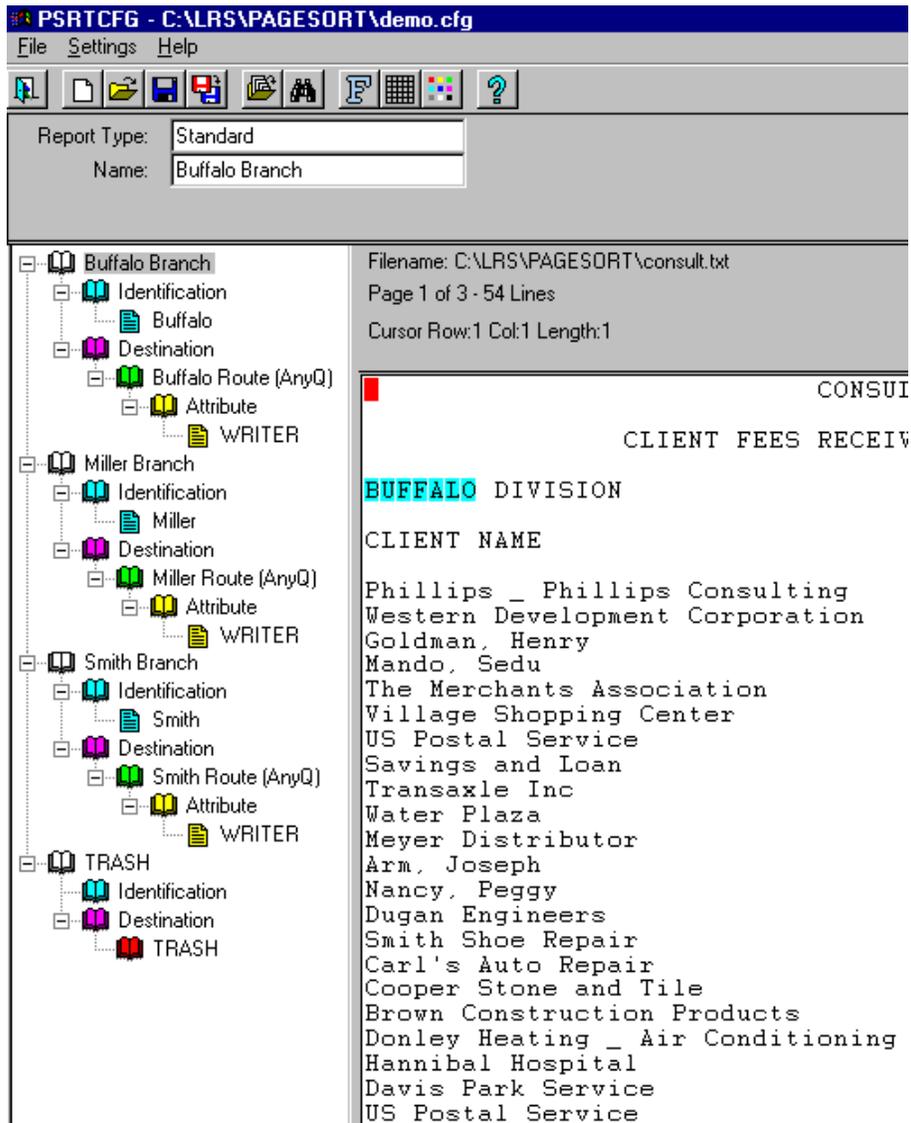


Figure 3-10: DEMO.CFG Report Definitions

Defining a Report Definition, continued

Creating a new configuration file

If you want to create a new configuration file (instead of opening a file like we did with *demo.cfg*), follow the steps below.

- Select **File** from the Menu bar in the PSRTCFCG dialog.
- Select **New** from the drop down dialog.

Now the Tree Window on the left side of the dialog will display empty. At this point, you can create Report Definitions that will tell AnyQueue/PageSorter how to sort the report.

What is a Report Definition?

A Report Definition defines information within the multi-page ASCII report that will be used to sort the report. A Report Definition is created for each report that will be created from the multi-page report.

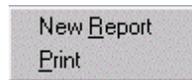
For instance, in the *demo.cfg* configuration file there are 4 Report Definitions – Buffalo Branch, Miller Branch, Smith Branch, and Trash.

The “Trash” Report Definition

The Trash Report Definition will receive any unidentified pages in the report that do not match any of the other Report Definitions. It is a good idea to create a “Trash” definition to hold these pages because all unidentified pages will be thrown away. The Trash definition should have no Identification Records created in it and it must be the last Report Definition in the tree. Its intent is to match everything. That way all unidentified pages will be added to this file.

Creating a Report Definition

- In the Tree Window (the left side of the dialog), click with the right mouse button, and a popup menu as illustrated below will display.



- Select **New Report** and a new Report Definition item will appear in the Tree Window. (See [Figure 3-11](#) below.)

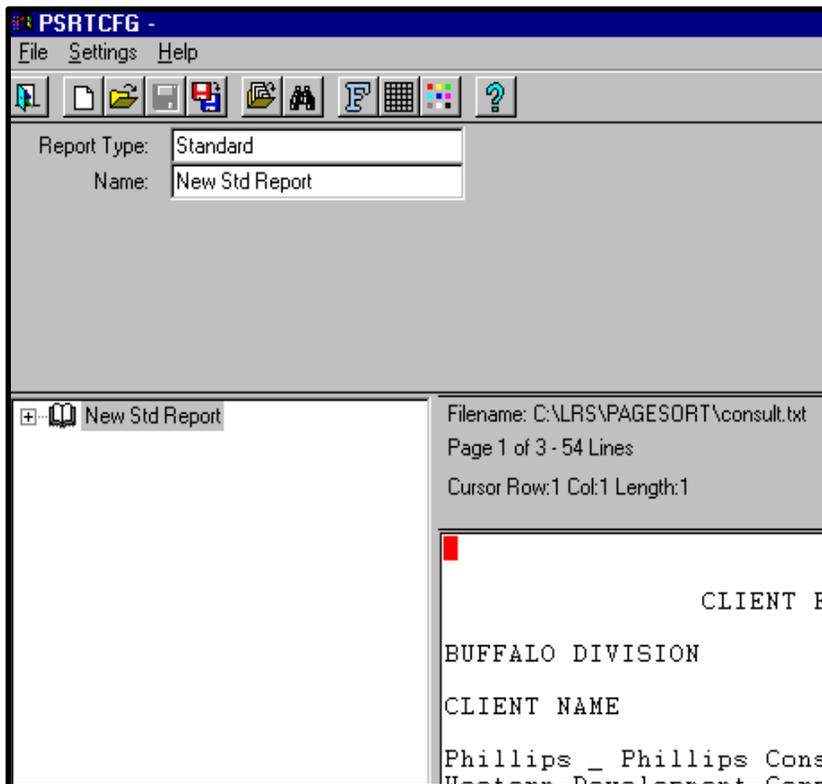


Figure 3-11: New Report Definition dialog

Changing the name of a Report Definition

By default, the new Report Definition item will be named “New Std Report”.

You can change the name by highlighting **New Std Report** in the **Name** field and typing a new name. Select another branch of the tree (expand the tree by clicking on the + and select the **Identification** branch), and the new name will appear in the tree view.

Defining Identification Records

What is an Identification Record?

An Identification Record defines items within the ASCII report that AnyQueue/PageSorter will use to sort the report. You can create as many Identification Records as needed to uniquely identify a report.

For instance, in the *demo.cfg* file, an Identification Record named **Buffalo** was created. The record indicates that in Row 5, Col 1, a value with a length of 7 characters should equal BUFFALO.

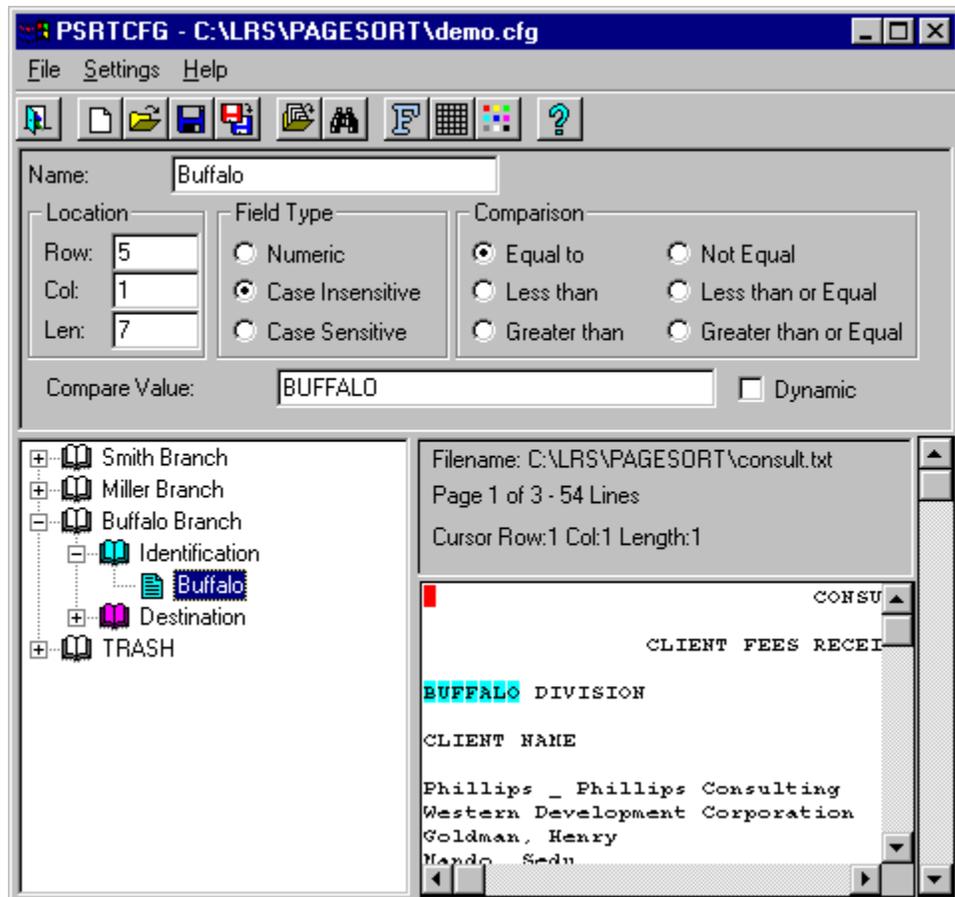


Figure 3-12: Identification Record dialog

Multiple Identification Records can be created within a single report. This allows you to do “or” logic for identifying a report.

For Example:

If you have a Report that has “Invoice” on line 4 and column 5, and then “Smith” or “Jones” on line 5 column 10, you would create two Identification Records. Each would have an Identification Field specifying “Invoice” in Row 4, Col 5. Then, the first Identification Record would have an additional Identification Field for Row 5, Col 10 specifying “Smith”, while the second Identification Record would have an additional Identification Field for the Same Row 5 Col 10, only specifying “Jones” instead.

Dynamic Identification Records

AnyQueue/PageSorter can dynamically create identification records based on the **Location** fields (**Row, Column, Length**). The **Compare Value** field is not necessary as long as the **Dynamic** box is selected. AnyQueue/PageSorter will compare the **Location** fields in the Dynamic Identification Records to the report and dynamically create temporary reports based on the values.

The figure below shows a dynamic route. Any value specified at the position indicated by the **Location** fields will be considered a match.

For instance, the data in row 5, column 1, and length 7, will cause a new temporary page to be created which consists of this page of the report. The finished report will be sent to the location specified by the Destination Record.

When dynamic identification records are created the Destination Record **must** use the '+' variable to avoid duplicate file names. (See page 3.30.)

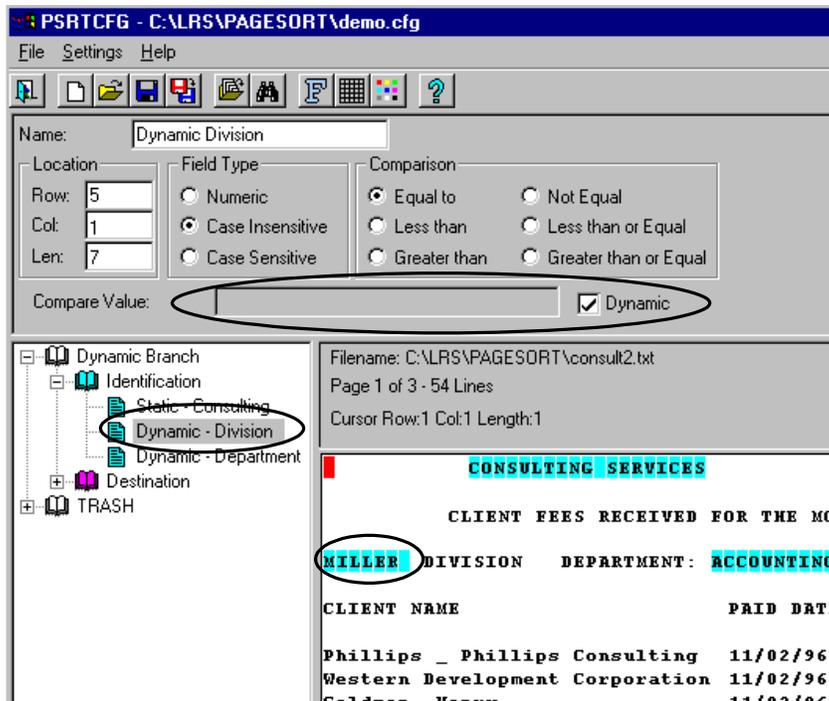
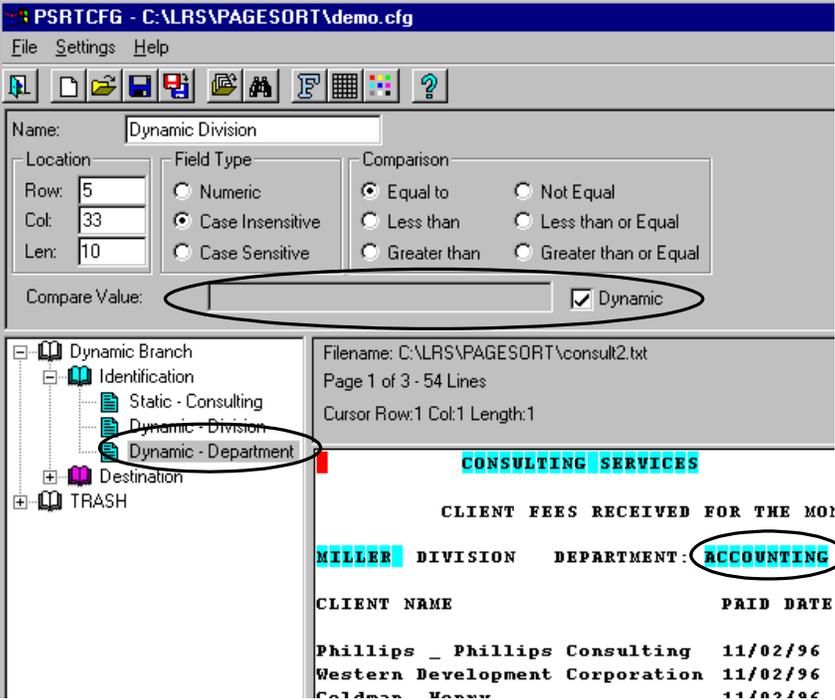
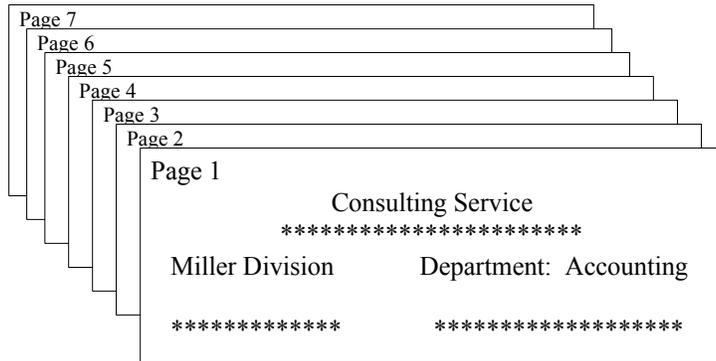


Figure 3-13: Dynamic Identification Record dialog

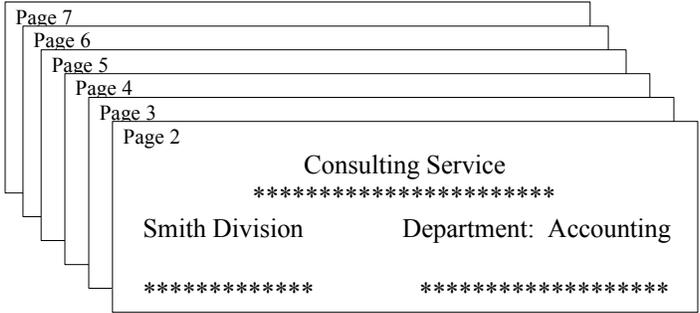
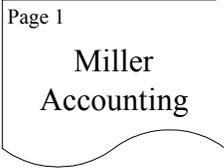
In the figure below, the data in row 5, column 33, and length 10, will cause a new temporary page to be created which consists of this page of the report.



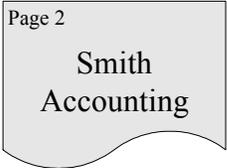
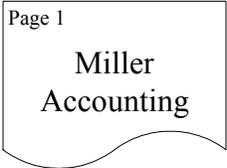
The figures on the following pages show the AnyQueue/PageSorter process when there are static and dynamic identification records defined in the config file.

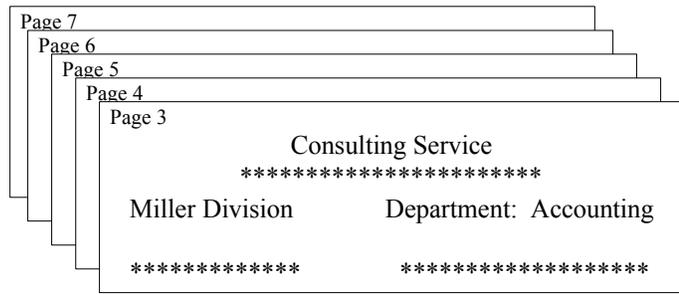


AnyQueue/PageSorter

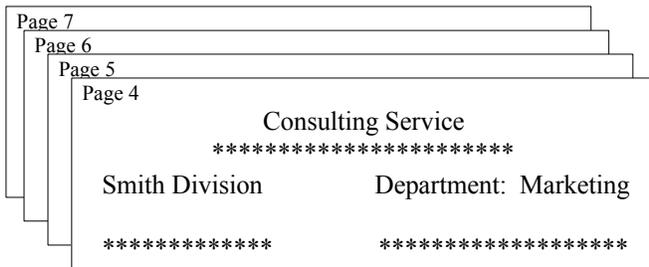
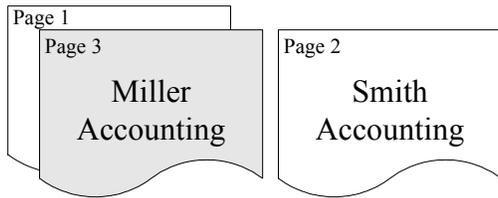


AnyQueue/PageSorter

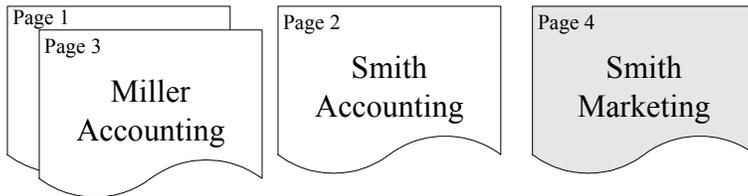


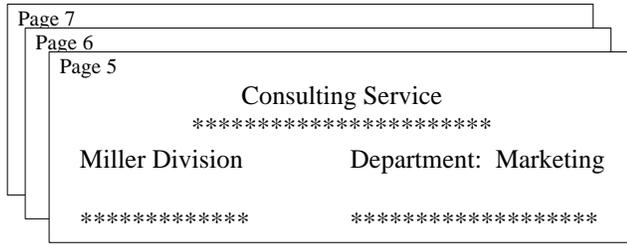


AnyQueue/PageSorter

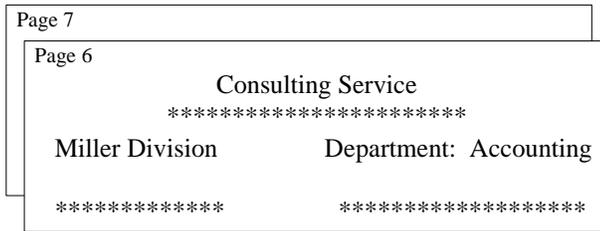
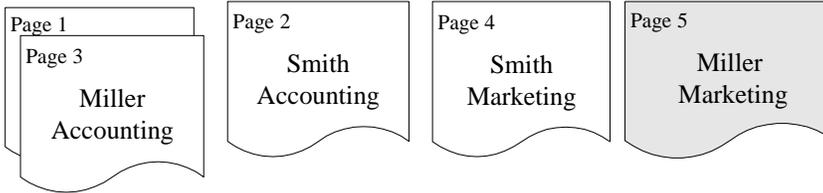


AnyQueue/PageSorter

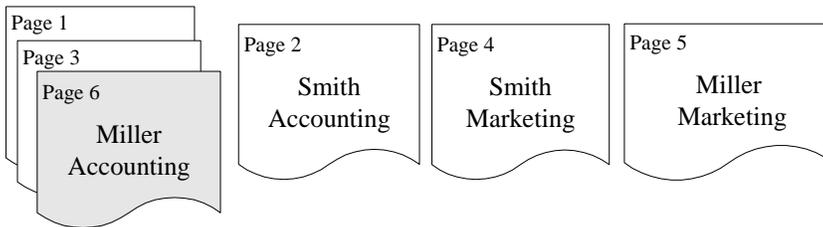




VPS/PageSorter™



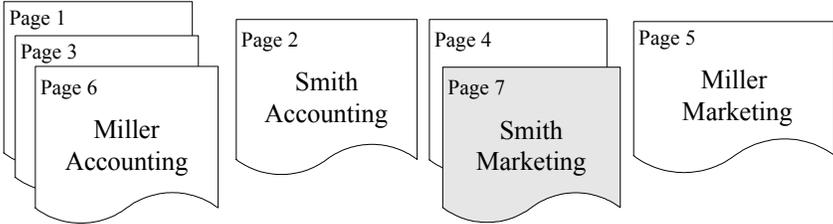
VPS/PageSorter™



Page 7
Consulting Service

Smith Division Department: Marketing
***** *****

AnyQueue/PageSorter



Creating an Identification Record

There are two ways to create Identification Records.

Procedure #1:

- Click the left mouse button over the text in the Display Window; hold it down; drag it over the data you want to use to identify the report you are defining. Once you have highlighted the information you want, release the mouse button.
- Click on the highlighted area with the right mouse button and a popup menu as illustrated below will display.

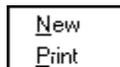


Create New Ident

- Click on **Create New Ident** and a new Identification record will be created.

Procedure #2:

- Click the left mouse button over the text in the Display window, hold it down, and drag it over the data you want to use to identify the report you are defining. Once you have highlighted the information you want, release the mouse button.
- In the Tree Window, use the right mouse button and click on Identification under the Report Definition you want to create a record for.
The popup menu illustrated below will display.



New
Print

- Select **New**.

Identification Record fields

The **Row**, **Col**, **Len**, and the **Compare Value** fields are automatically filled in when you create an Identification Record using Procedure #1 or Procedure #2 on the previous page.

You can change the **Field Type**. The default is **Case Insensitive**. Other options are **Numeric** and **Case Sensitive**.

You can also change the **Comparison**. The default is **Equal to**. Other options are **Less than**, **Greater than**, **Not Equal**, **Less than or Equal**, and **Greater than or Equal**.

Changing the name of the Identification Record

When new Identification Records are created, they are given a default name of **New Ident Field**.

Highlighting **New Ident Field** and typing over it changes the name.

Click on another branch in the Tree Window and the new name will appear in the tree.

Making changes to an Identification Record

There are two ways to change an Identification Record.

Procedure #1:

- Select the Identification Record in the Tree Window and the information for that record will be displayed at the top of the screen.

Procedure #2:

- Click with the right mouse button on the highlighted value in the ASCII report that was used to create the Identification Record.
- A popup will display listing the Identification Record name. Select the name.

Identifying a page

When AnyQueue/PageSorter attempts to identify a page, it will search all the Report Definitions in the configuration file from top to bottom, comparing each Identification Record against the page. If all Identification Records match, that page(s) will be selected and output will be sent to all of the defined Destination Records for that report.

For flexibility, you can specify a row, a column, or both as 0. When AnyQueue/PageSorter encounters a 0, it will look in every row or column when matching.

Example

If the Identification Record specifies:

```
Row=0  
Col=5  
Len=4  
Compare Value=Test  
Field Type=Case Sensitive  
Comparison=Equal to
```

AnyQueue/PageSorter will start on line 1 of the page in column 5 and see if the four characters there = Test. If they do, a match is found, and the next Identification Record will be checked.

If it does not match, line two of the page in column 5 would be checked. This would continue until either a match was found, or the end of page was encountered.

By specifying row=0 and col=0 the entire page would be searched for “Test”. This should only be used when necessary because the matching process will be slower.

Destination Records

What is a Destination Record?

Destination Records define where identified reports should be sent.

You can define as many Destination Records that are required to produce the number of copies of the output that is needed.

There are two types of Destination Records - **Standard** and **AnyQueue**.

For instance, in *demo.cfg* a Destination Record was defined for the Miller Branch Report Definition. (See [Figure 3-14 on page .28.](#))

The **Dest Type** is **AnyQueue**, which means when a report is created, after matching the Identification Record, it will be formatted so that the LRS AnyQueue product can read it. For more information on AnyQueue, please contact your LRS Marketing Representative or, if you already have the product, see the AnyQueue Installation and User's Guide.

The report will then be sent to the path indicated in the **Dest:** field. The report will be given a name of *Miller.VPR*. If AnyQueue will be receiving the report, the filename extension must be VPR.

The value in the **Name:** field is the name that will be given to this Destination Record in the configuration file.

Continued on next page

Destination Records, continued

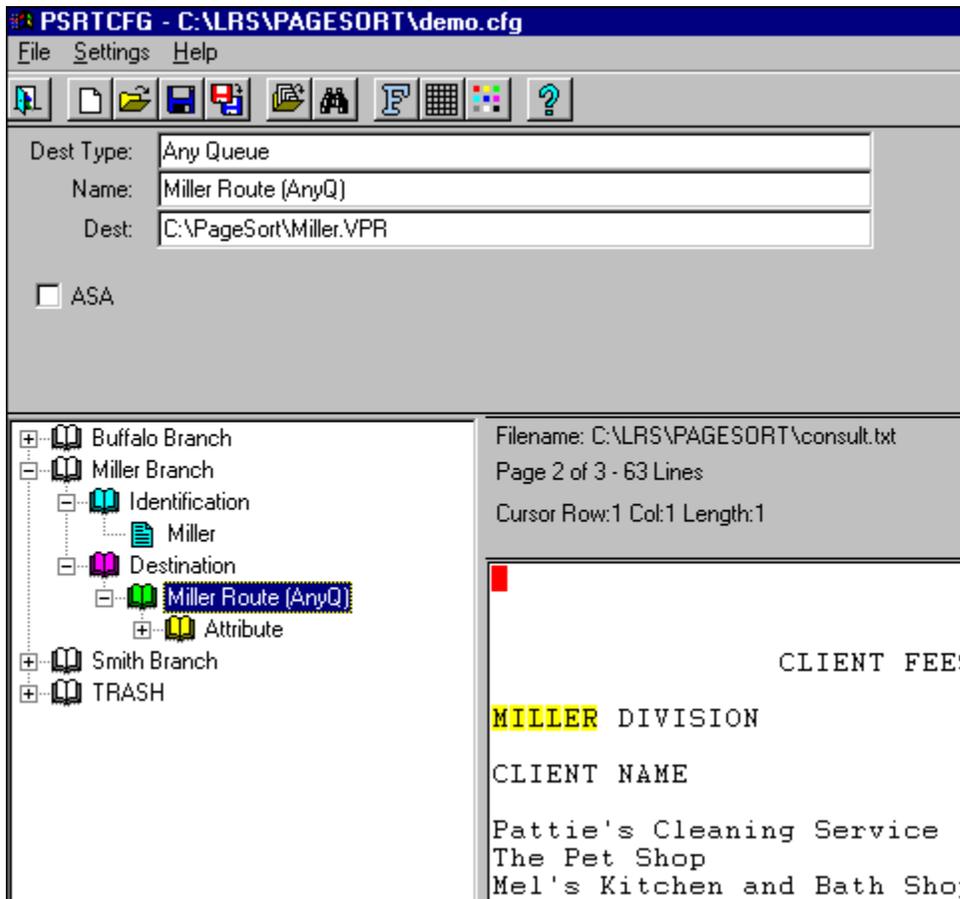
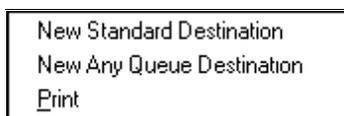


Figure 3-14: Destination Records Example

Creating a Destination Record

- Click the right mouse button on the Destination branch for the appropriate Report Definition. A popup menu will appear as illustrated below.



- Select the destination type and the corresponding Destination Record will display at the top of the screen.

Standard Destination

- By default, the name of the Destination Record will be **New Std Dest**. Highlight the default name and type a new name for the record. Click on another branch in the Tree Window and the new name will display.
- In the **Dest:** field type the physical location and name of the file you want to be created when AnyQueue/PageSorter creates the new report. The file can be created on the local PC or on a network. UNC names may be used (Example: \\servername\alias\filename.ext).
- For network files, you must be able to access the target network where the files will be created when AnyQueue/PageSorter executes.
- **Append box:** If the Dest specified exists, the output will be added to the end of the file if the Append box is checked. If the Dest does not exist, it will be created as usual.
- **Discard 1st Page:** If you want to discard the first page of a Report, check this flag. For example, in some instances, a header page is sent that holds information that is required for Attributes, but you have no desire for the page to be printed.

AnyQueue Destinations

For **AnyQueue** destinations, you can not append to the output. These files are in a specific format that VPS/Any Queue can read, and they can not be modified once they are created.

- By default, the name of the Destination Record will be **New AnyQueue Dest**. Highlight the default name and type a new name for the record. Select another branch in the Tree Window and the new name will display.
- In the **Dest:** field type the physical location and name of the file to be created when AnyQueue/PageSorter creates the new report. The file can be created on the local PC or on a network (you must be able to access the target network). UNC names may be used (Example: \\servername\alias\filename.ext).

In order for AnyQueue to select the file, you must specify an extension of .VPR.

- **ASA box:** If this is checked, then the output that is created will contain ASA Carriage Control. This will allow AnyQueue to do ASA Carriage Control processing on the file for “Skip To Line 1 On New Page”, “Process Leading Form Feed”, “Space 1 Line”, Form Feeds, and Single Spacing. The data will be in ASCII format, so **do not** select the “Translate” Route Flag.

Duplicate file names

To avoid file name duplication, put '+' characters anywhere within the file name to cause the filename to be modified with an incrementing number.

Example:

C:\REPORTS\FILENAME.+++

Result: The first file created will be named:

C:\REPORTS\FILENAME.000

the second file created will be named:

C:\REPORTS\FILENAME.001

and so on.

Attribute Records

What is an Attribute Record?

AnyQueue Destination Records have the ability to add attributes to the report when it is created as an AnyQueue file.

The reason for the attributes is so AnyQueue can determine where to deliver the report.

AnyQueue can use attributes when selecting the Route (Routes are defined within AnyQueue to specify where the report will be distributed, i.e., LAN printer, e-mail recipient, etc.). AnyQueue can also substitute the attributes into variables. (See the AnyQueue Installation and User's Guide for more information on Variable Substitution.)

In *demo.cfg*, the Smith Branch Report Definition has an Attribute Record added.

The attribute being used in this definition is *WRITER*.

Notice the **Location** parameters on the Attribute Record in [Figure 3-15 on page .32](#).

This Attribute Record is telling AnyQueue/PageSorter that the 5 characters (Len=5) in Row 6 and Col 1 should be used as the *WRITER* attribute when this report is sent to AnyQueue. In [Figure 3-15 on page .32](#), the attribute would equate to SMITH.

Where the attribute (WRITER=SMITH) comes into play is when AnyQueue receives the file. For example, AnyQueue has a Route Assignment object defined to look for reports with **WRITER=SMITH** and send those reports to an e-mail Route object. (For more information on Route Assignment objects and Route objects, see the AnyQueue Installation and User's Guide.)

Continued on next page

Attribute Records, continued

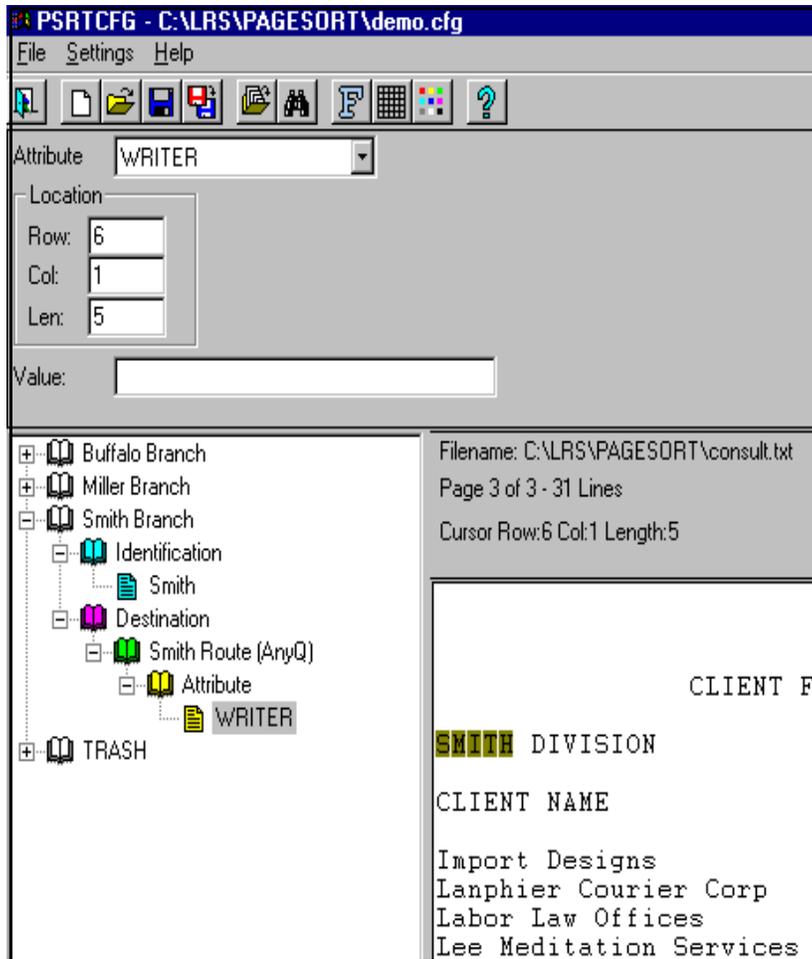


Figure 3-15: Attribute Record Example

Creating Attribute Records

There are two ways to define Attribute Records:

Procedure #1:

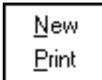
- In the ASCII report in the Display Window, highlight the value that will be used as the Attribute value.
- Click the right mouse button.
A popup will display as illustrated below.



- Click on the “Create New Attribute” and a new Attribute Record will be added in the Tree Window with a default name of CHARARGT1. (The default name comes from the list of attributes in the drop down box. CHARARGT1 is the first one in the list.)
- Select the Attribute name from the drop down list for the **Attribute** field. (See [Figure 3-16 on page .35](#) for a list of Attribute names and the maximum length for each Attribute.)

Procedure #2:

- In the ASCII report in the Display Window, highlight the value that will be used as the Attribute value.
- With the right mouse button, click on the Attribute branch under the appropriate AnyQueue Report Definition.
A popup menu will display as illustrated below.



- Select **New**.
An Attribute Record will be added in the Tree Window with a default name of CHARARGT1. (The default name comes from the list of attributes in the drop down box. CHARARGT1 is the first one in the list.)
- Select an Attribute name from the drop down list for the **Attribute** field. (See [Figure 3-16 on page .35](#) for a list of Attribute names and the maximum length for each Attribute.)

Attribute Record fields

- Attribute:** Use the drop down box for this field to select the attribute name that will be associated with the value selected in the ASCII file in the Display Window.
- Note:** You can assign only one Attribute of each type. For instance, if you create two Attribute Records named **WRITER**, the last one encountered in that tree branch will be used.
- Location:** The **Row**, **Column** and **Length** of the value selected in the ASCII file in the Display Window will be filled in automatically.
- Value:** Unlike the Identification Record, the **Value** field will not be filled in. This is because AnyQueue/PageSorter will resolve this value on the fly for the first page that matches the Report Definition. This way you can plug in variable information. If you want to force a **Value** to be assigned to an Attribute, simply type it in the **Value** field and set the **Row** and **Col** fields to 0.

Example

For instance, let's say you have a report that will be sorted by Divisions.

Each Division report will have a person's name on it but, of course, the name will be different on each report.

You can create an Attribute Record that tells AnyQueue/PageSorter to take the value on every Division report in Row 5, Col 1, Len 25 (Len=25 would be the **maximum** number of characters for a person's name), and store that value with the Attribute J4ADDR1.

Remember, Attribute Records are only valid for **Dest Type=AnyQueue** so that indicates that AnyQueue will be receiving the report. AnyQueue would have a MAPI Mail Route object defined that will send each Division report to the person that the variable J4ADDR1 gets resolved as. Of course, the value of J4ADDR1 would need to be resolved as the actual e-mail address of the person.

Forcing an Attribute Value

To force a value to be assigned to an Attribute, simply type it in the **Value** field and set the **Row** and **Col** fields to 0.

Attribute Records' names

The name of an Attribute Record comes from the value you selected in the drop down box for the **Attribute** field.

Continued on next page

Attribute Records, continued

Attribute	Maximum Length	Attribute	Maximum Length
CHARARGT1	4	J4ADDR4	60
CHARARGT2	4	J4BLDG	60
CHARARGT3	4	J4DEPT	60
CHARARGT4	4	J4NAME	60
CLASS	1	J4ROOM	60
COMPTBL	8	J4TITLE	60
COPYMODMOD	4	JOBID	8
DEST	8	JOBID_L3	3
FCBNAME	4	JOBNAME	8
FLASHFORMO	4	ODESTNAME	8
FORM	8	ONODENAME	8
FORMDEF	6	PAGEDEF	6
GROUPID	8	PRMODE	8
J4ADDR1	60	UCSNAME	4
J4ADDR2	60	WRITER	8
J4ADDR3	60		

Figure 3-16: Table of Attribute Names and Maximum Length

Reordering Records

Changing the search order for reports

Report Definitions are searched in the order that they appear in the configuration file.

To change the search order for reports you can move any Report Definition around by clicking on it with the left mouse button, dragging and dropping it.

The only other type of record that may benefit from reordering is the Identification Record. Placing Identification Records least likely to succeed first in the tree could improve the searching performance for AnyQueue/PageSorter.

Destination Records and Attribute Records derive no benefit to being reordered other than cosmetic.

Example

In *demo.cfg*, there are 4 Report Definitions – Buffalo Branch, Miller Branch, Smith Branch, and Trash.

If you want Smith Branch to be the Report Definition that is searched first, click on Smith Branch using the left mouse button; drag it on top of Buffalo Branch and release the mouse button. The order of the definitions will change in the Tree Window - Smith Branch would be searched first and Buffalo Branch would be searched second.

Copying Records

Copying records works like reordering but the right mouse button is used instead of the left mouse button. A '+' sign will appear on the drag icon indicating that this is a copy, not a move.

The record you are copying will be placed in front of the record you drop it on.

To place a record type at the end of the tree branch, drag and drop the record on the branch you want it under.

To copy a Report Definition and place it at the bottom of the Tree Window, just drag and drop it at the bottom of the Tree Window.

Copying Report Definitions from other configuration files

If you want to copy Report Definitions from one configuration file to another configuration file:

- Open a second copy of AnyQueue/PageSorter Configurator.
- Using the right mouse button, select the Report Definition to be copied and drag it to the second copy of AnyQueue/PageSorter Configurator.

Copying Records from other configuration files

If you want to copy records (Identification, Destination or Attribute) from one configuration file to another configuration file:

- Open a second copy of AnyQueue/PageSorter Configurator.

Using the right mouse button, select the record definition to be copied and drag it to the second copy of AnyQueue/PageSorter Configurator.

Note: When copying records, they must be copied to the same record type in the new configuration file. In addition, everything below that branch in the tree is copied also. A "Not" sign will indicate when a drop is not allowed.



Chapter 4 Operation

How is AnyQueue/PageSorter Executed?

AnyQueue/PageSorter[®] has no interface. It runs in a batch mode and processes files against configuration files.

AnyQueue/PageSorter can be executed from a command line, but in most cases will be executed as a Backend object in AnyQueue. For more information about AnyQueue see the *AnyQueue Installation and User's Guide* or, if you do not have this product, contact your LRS Marketing Representative.

AnyQueue/PageSorter parameters

The following are command line parameters that are used when AnyQueue/PageSorter (NPS.EXE) is executed:

- /c** Configuration File name (required)
- /f** Text file name to extract reports from (required)
- /delete** Delete the input text file when complete if 100% successful.
- /?** Display a brief summary of the input parameters.
- /va** Displays the AnyQueue/PageSorter variable substitution attributes as described below:

Flag	Variable	Length	Flag	Variable	Length
/ca1	CHARARGT1	4	/j4b	J4BLDG	60
/ca2	CHARARGT2	4	/j4d	J4DEPT	60
/ca3	CHARARGT3	4	/j4n	J4NAME	60
/ca4	CHARARGT4	4	/j4r	J4ROOM	60
/ctb	COMPTBL	8	/j4t	J4TITLE	60
/cpy	COPIES	3	/jnn	JNODENAME	8
cmm	COPYMODMOD	4	/jid	JOBID	8
/ddn	DDNAME	8	/odn	ODESTNAME	8
/fcn	FCBNAME	4	/onn	ONODENAME	8
/ffo	FLASHFORMO	4	/pgd	PAGEDEF	6
/fmd	FORMDEF	6	/prm	PRMODE	8
/gid	GROUPID	8	/prn	PROCNAME	8
/ja1	J4ADDR1	60	/stn	STEPNAME	8
/ja2	J4ADDR2	60	/ucn	UCSNAME	4
/ja3	J4ADDR3	60	/vsp	VPS_SEPAR	1
/ja4	J4ADDR4	60			

Executing NPS.EXE from a command line

The following command was executed from the DOS command line from the **lrs\pagesort** directory:

```
NPS /c:demo.cfg /f:consult.txt /delete
```

The above command will:

- **NPS** = execute NPS.EXE from path c:\lrs\pagesort,
- **/c:demo.cfg** = load the *demo.cfg* file that was created with the AnyQueue/PageSorter Configurator,
- **/f:consult.txt** = read each page of the *consult.txt* file and match it against the Report Definitions in the *demo.cfg* configuration file,
- **/delete** = delete *consult.txt* if processing is 100% successful.

Executing NPS.EXE from AnyQueue

AnyQueue/PageSorter can be executed from AnyQueue. AnyQueue is another LRS product that can receive files from other Hosts (including itself) and send the output to other destinations.

Example of a Backend Process

The following shows the steps involved when using AnyQueue/PageSorter as a Backend object within AnyQueue. Use [Figure 4-2 on page .6](#) as a flowchart to follow the path of the original file.

1. The output file coming from an MVS Host is the Consulting Fees report.
2. AnyQueue has a TCP/IP Host object defined to make a connection with VPS on the MVS Host.
3. VPS sends the Consulting Fees file to AnyQueue.
4. AnyQueue will look at the JES selection criterion that was sent with the report from the Host. In this example, the report has **writer=consult**.
5. AnyQueue will look through his configuration file for a Route Assignment object that matches this attribute (writer=consult). See [Figure 4-3 on page .7](#).
6. A match is found in the Route Assignment object named **FEES**. The Route Assignment object indicates that the file should be sent to the Route object named **Consulting Fees**.
7. AnyQueue looks for a Route object named **Consulting Fees**. He finds the Route.
8. The **Consulting Fees** Route object indicates that the file should be sent to the path `c:\lrs\pagesort\+writer.txt`. The job has **writer=consult** associated with it so `+writer.txt` gets resolved to `consult.txt`. The Consulting Fees Route object also indicates that a Backend object named **NPS** is associated with this Route object.
9. AnyQueue looks through his configuration file for a Backend object named **NPS**. He finds the Backend object.
10. The NPS Backend object defines the location for the Program Name to be executed (C:\LRS\PAGESORT\NPS.EXE) and indicates Parameters to use with the Program Name (`/c:demo.cfg /f:consult.txt`).

Continued on next page

Example of a Backend Process (continued)

11. Now AnyQueue/PageSorter takes over and sorts the report (*consult.txt*) according to the Report Definitions within *demo.cfg*. According to *demo.cfg*, each Division report should be sent to the **PageSort** sub-directory. Each file placed in the PageSort sub-directory must have a .VPR file extension to be selected by AnyQueue.
12. AnyQueue also has a Host File object defined with a File type that tells AnyQueue to monitor the **PageSort** sub-directory.

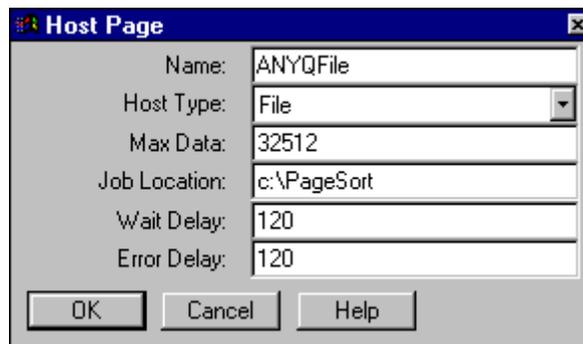


Figure 4-1: AnyQueue Host Page

13. When files are placed in the **PageSort** sub-directory, AnyQueue will select each file (if they have a .VPR file extension) and, according to attributes sent with each file (in this case the attributes were assigned from the Attribute Record definitions within *demo.cfg*) select the correct Route Assignment object.
14. Each Route Assignment object will in turn send each file to the appropriate Route object.
15. Each Route object will send the file to the destination defined in the Route object.

OPERATION, continued

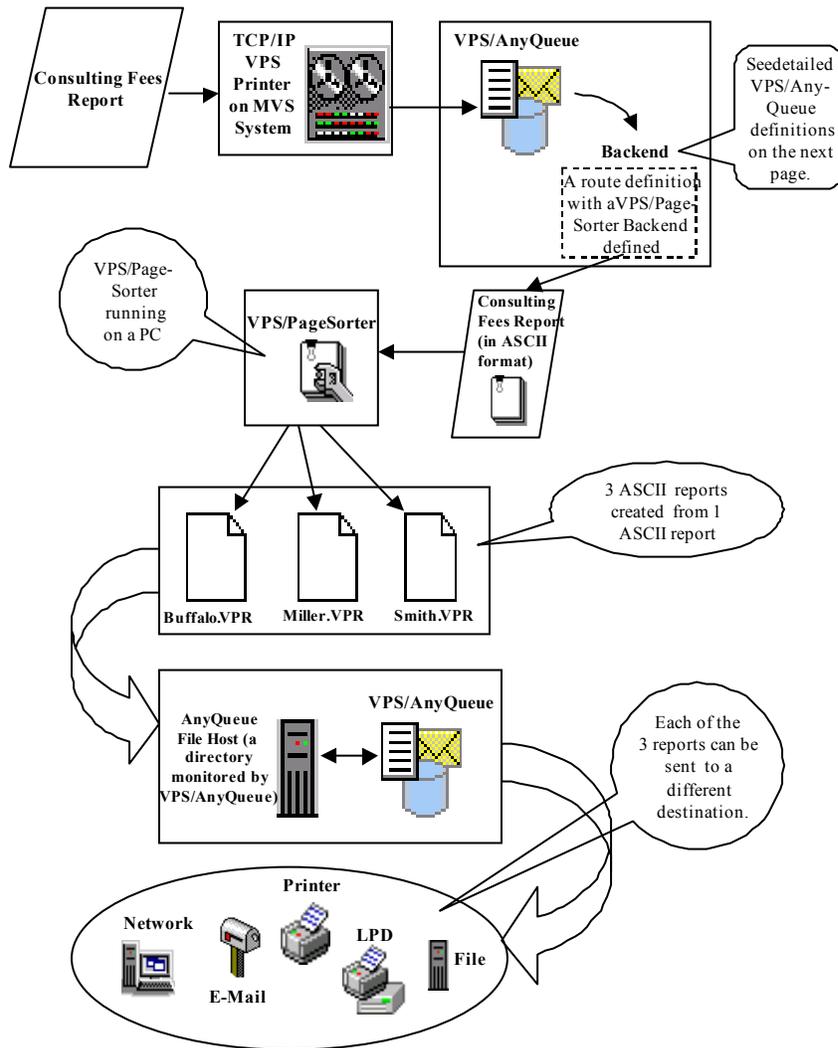


Figure 4-2: Backend Example

OPERATION, continued

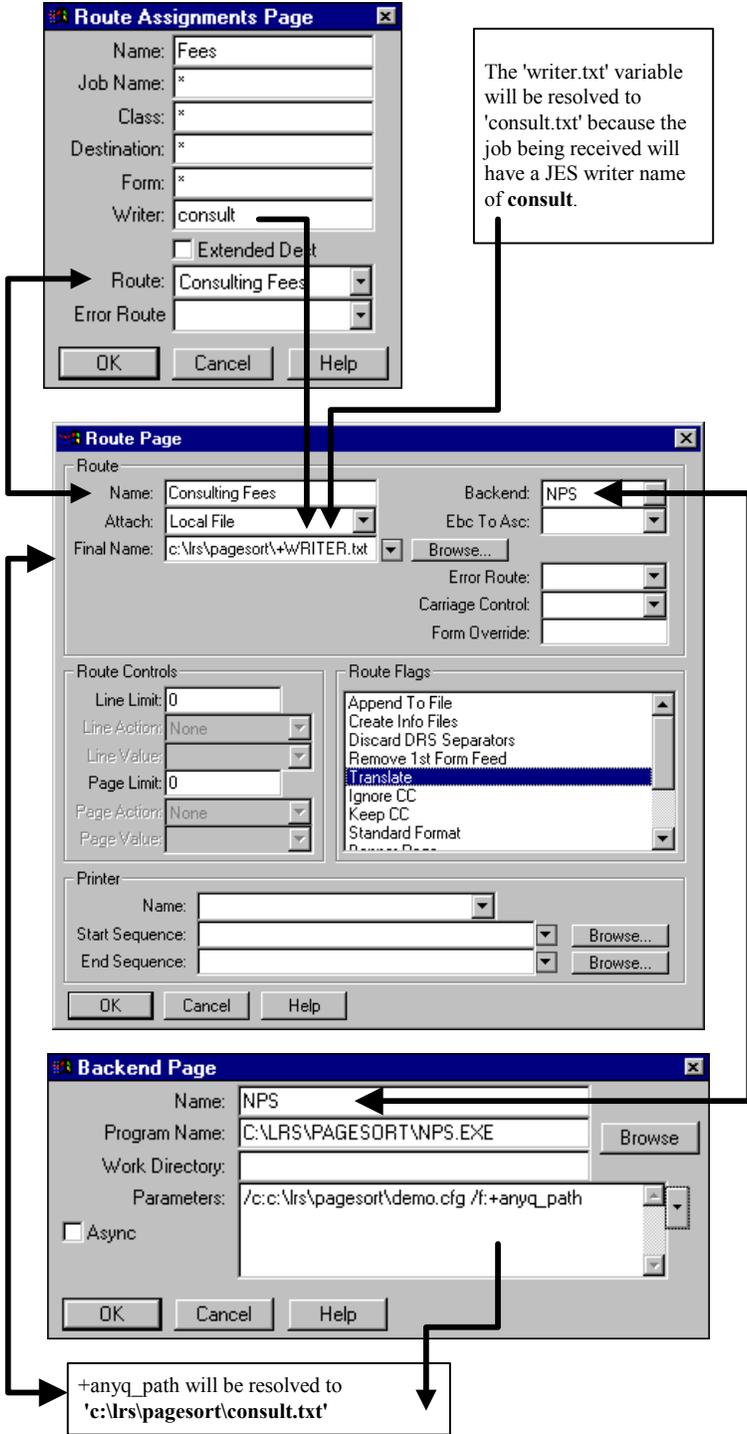


Figure 4-3: AnyQueue Backend Definitions

Log File

Every time NPS.EXE is executed, a log file will be created to record the events of AnyQueue/PageSorter. The log will be named the same as the configuration file, but with a .LOG extension. So if *demo.cfg* is the name of the configuration file being used, the log would be named *demo.log*.

Appendix A Documentation

The most recent version of this manual can be downloaded from the LRS Web site (www.lrs.com).

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