Documentation Library

Web Spooled File Manager

User Guide

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Welcome to Web Spooled File Manager

Web Spooled File Manager helps you manage IBM i (System i, iSeries or AS/400) output queues and spooled files via the Internet from a browser. Typical tasks are:

- Search for spooled files
- Search output queues for spooled files
- Save the search criteria in folders and use them again
- Print spooled files
- Convert spooled files to HTML, PDF and/or text
- Download spooled files to your computer or mobile device

Once you have downloaded spooled files, you can include information from the spooled files into business applications like Microsoft Excel and Word.

This document describes how to use Web Spooled File Manager (WSFM).

For information about aXes products, refer to the aXes web site www.axeslive.com.

Road Map

Use the road map to find information about Web Spooled File Manager.

If you want to...	Refer to...
Get started quickly	Section 1 - Getting started (with Web Spooled File Manager) Installation, starting WSFM and log on instructions.
Understand how to perform tasks from start to end	Section 2 - What do you want to do? This section is task oriented, describing what to do to complete a task. Later sections provide the detailed instructions explaining each step in a task.
Work with spooled files and output queues	Section 3 - Spooled files and output queues This section contains instructions for tasks like retrieving a list of spooled files, viewing spooled files as HTML or PDF.
Manage searches, filters and folders.	Section 4 - Searches, filters and folders This section describes how to use searches, filters and folders.
Understand concepts behind WSFM	Section 5 - Concepts and configuration Conceptual information in this section describes the how WSFM works, including the concepts of operation, using filters for searches, viewing the content of spooled files and options for controlling WSFM behaviour.
Read reference material	Appendices

For information about Web Spooled File Manager server installation and administration refer to the aXes Web Spooled File Manager Administration Guides.

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Section 1 - Getting started

Getting started with Web Spooled File Manager (WSFM) provides an overview of WSFM including, the page content, layout and how WSFM helps you to work with spooled files.

This section describes how to install, start and log on to WSFM from your computer or mobile device.

What is Web Spooled File Manager?

WSFM is a Web application that you use to manage spooled files and output queues on an IBM i server. The WSFM page consists of two panes. The left hand pane is the search filter and folder navigation pane. It contains filters and folders where you save the filters used to search for spooled files and output queues. The right hand pane consists of one or more tabs. The tabs contain search criteria, search results, forms for editing filters and setting options.

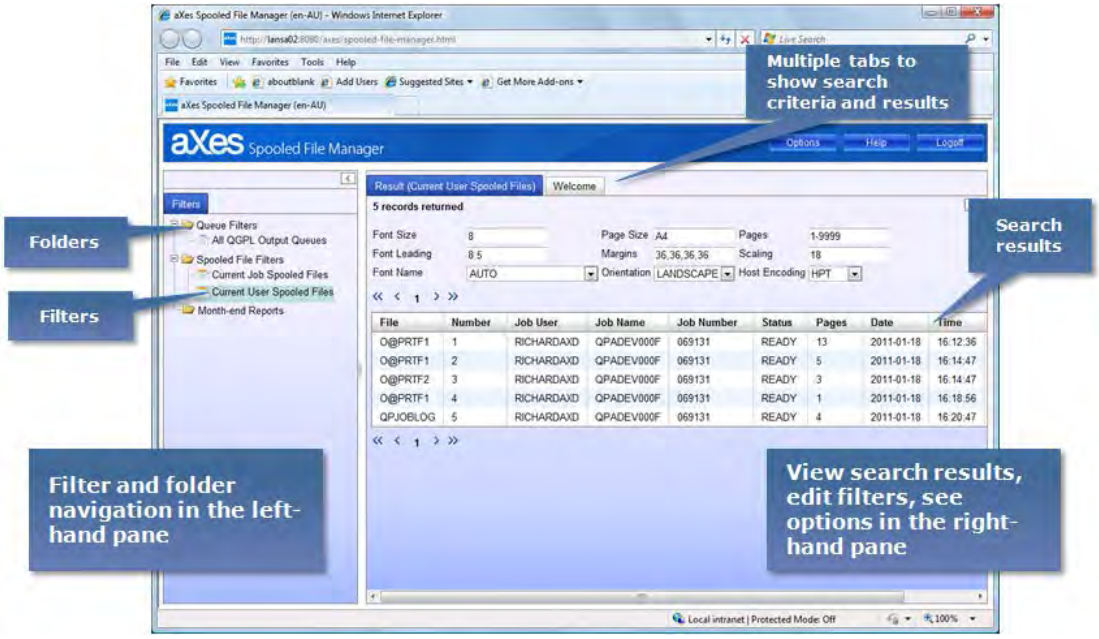

Figure 1: WSFM Page Components and Layout

Figure 1 (page 8) shows two tabs in the right hand pane. The visible tab, labelled “Result (Current User)”, presents a list of spooled files for the person currently logged on and shows the search results from running the Current User filter. The second tab (out of view) is the Welcome page.

Figure 2 (page 9) shows a floating menu with options for working with spooled files. The options are opening to view as PDF, PDF image, text or HTML, holding, releasing and deleting a spooled file.

Use the mouse pointer to highlight a row in the list of spooled files (a highlighted row has a coloured background). Clicking the left or right mouse button opens a floating menu showing options for displaying spooled files (as PDF, PDF image, HTML or text) and actions for holding, releasing or deleting the selected spooled file. The properties option displays the attributes (or metadata) associated with the selected spooled file.

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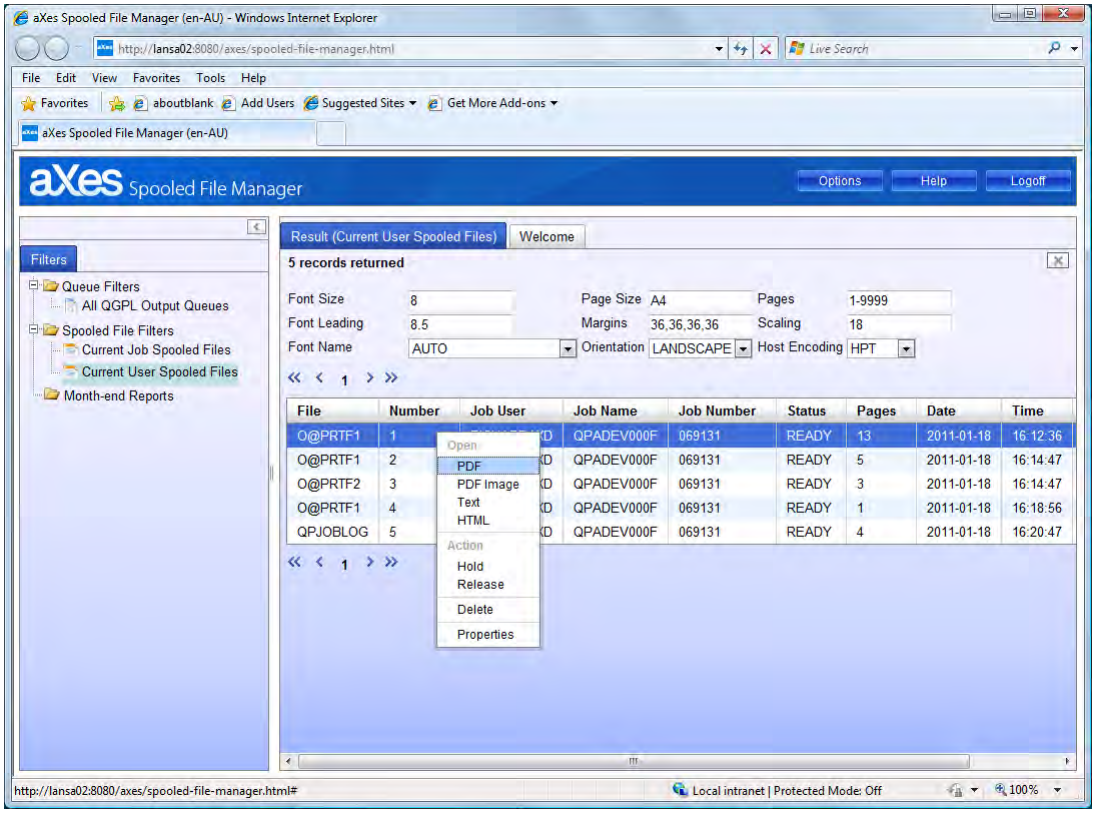

Figure 2: Options for Displaying the Content of Spooled Files

Clicking the HTML item from the floating menu opens a new window to reveal the content of the selected spooled file displayed as HTML.

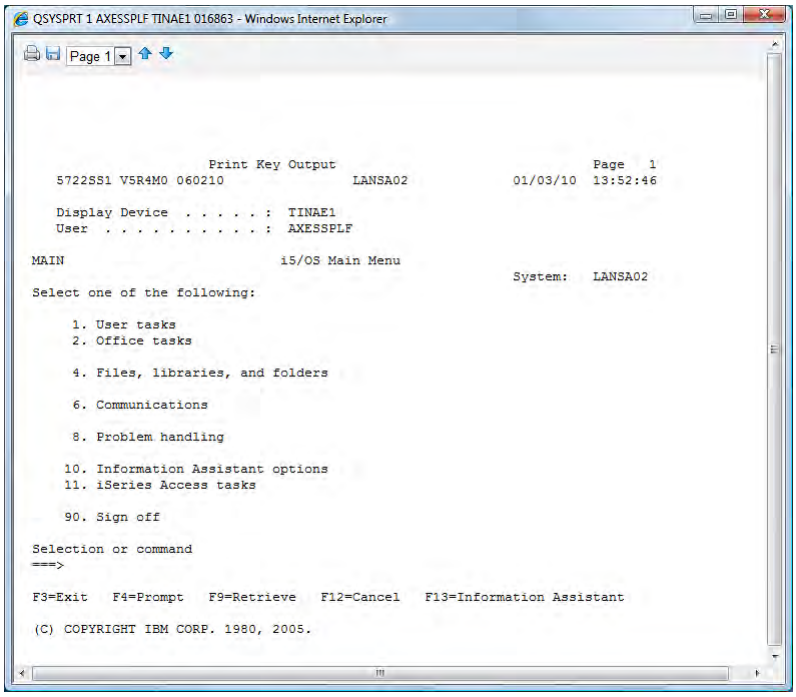

Figure 3: Display Spooled File Content as HTML

Figure 3 shows a spooled file displayed as HTML in its own window.

Installation

You do not need to install any software on your computer or mobile device to use WSFM.

The prerequisites for WSFM are:

- A supported browser - Chrome, Firefox, Internet Explorer and Safari
- A network connection to the Internet and/or corporate network (fixed line or wireless)
- The address (URL) for WSFM at your site

Obtain the address (URL) for WSFM from your administrator or your administrator may place an icon on your desktop.

Starting

From your browser

To start WSFM from your browser:

1.	Open the browser.
2.	Type the address (URL) into the location bar and press the Enter key or the Go icon.
3.	Wait for WSFM to display the Access log on page and then follow the log on instructions.

From a desktop shortcut

You or your administrator can set up a shortcut to open the browser and go to the address for WSFM immediately.

To start WSFM from a shortcut:

1.	Click on the shortcut (or open the shortcut) - the browser will start and connect to WSFM.
2.	Wait for WSFM to display the Access log on page and then follow the log on instructions.

To set up the desktop shortcut for Internet Explorer, create a new shortcut, open the properties and insert the equivalent of the following as the target property:

"C:\Program Files\Internet Explorer\iexplore.exe" www.myWSFM-URL.com

To set up the desktop shortcut for Firefox, create a new shortcut, open the properties and insert the equivalent of the following as the target property:

"C:\Program Files\Mozilla Firefox\firefox.exe" www.myWSFM-URL.com

The URL http://www.myWSFM-URL.com:80/axes/spooled-file-manager.html is an example of the actual URL for WSFM at your site. This example uses port 80 and the default page for WSFM.

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Log on

When WSFM starts, the browser will show the Access log on page and display the Access dialogue window.

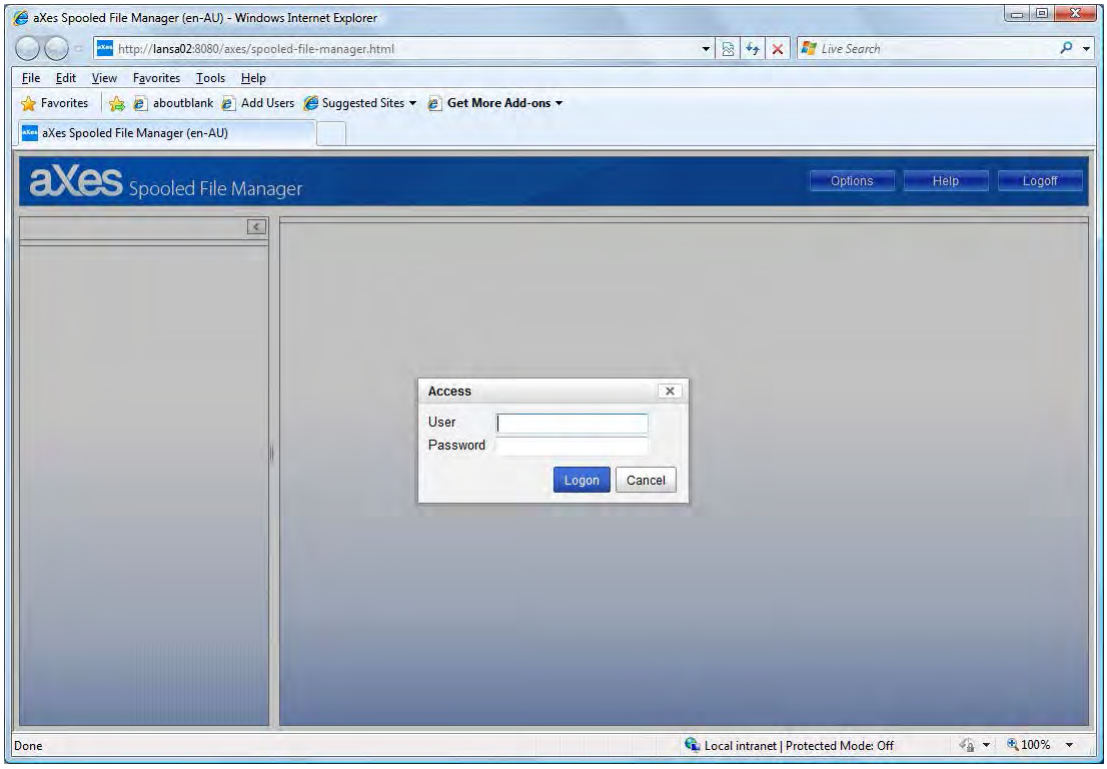

Figure 4: Access Logon Page

Your user identification and password

To log on to WSFM you must provide your user identification and password (credentials):

1.	Type your user identification.
2.	Type your password.
3.	Press the Logon button
4.	Wait while WSFM verifies your credentials. If your log on is successful, WSFM will display the next page. If your log on is unsuccessful, WSFM will display an error message.

What to do if log on fails

Log on will fail if you make a mistake typing the user identification and/or the password. Check you have the correct user identification and re-type the password.

If you forget your user identification and/or password contact your administrator.

If you do not know your user identification and/or password contact your administrator.

Cancel WSFM without logging on

To cancel WSFM without logging on click the Cancel button and wait while WSFM closes the browser.

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Section 2 - What do you want to do?

This section describes common tasks and the steps needed to complete the tasks. For example, the task “view the content of a spooled file” consists of a series of steps involving filters, searches, search results and displaying the content of the spooled file.

The later sections include detailed descriptions and instructions for performing the individual steps within tasks.

Filter tasks

Spooled file filter tasks

Create a spooled file filter

To create a spooled file filter:

1.	Create a spooled file filter.
2.	Define the search criteria in the filter.
3.	Save the filter and/or open the filter to perform the search.

Change a spooled file filter

To change a spooled file filter:

1.	Open the spooled file filter you want to change.
2.	Amend the search criteria in the filter.
3.	Save the filter and/or open the filter to perform the search.

Delete a spooled file filter

To delete a spooled file filter:

1.	Click on the spooled file filter you want to delete.
2.	Delete the spooled file filter.

Queue filter tasks

Create a queue filter

To create a queue filter:

1.	Create a queue filter.
2.	Define the search criteria in the filter.
3.	Save the filter and/or open the filter to perform the search.

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Change a queue filter

To change a queue filter:

1.	Edit the queue filter you want to change.
2.	Amend the search criteria in the filter.
3.	Save the filter and/or open the filter to perform the search.

Delete a queue filter

To delete a queue filter:

1.	Click on the queue filter you want to delete.
2.	Delete the queue filter.

Folder tasks

Create a folder

To create a folder:

1.	Click in the left pane.
2.	Choose New to create a folder.

Change folder name

To change a folder name:

1.	Edit the folder you want to rename.
2.	Amend the folder properties.
3.	Save the folder.

Delete a folder

To delete a folder:

1.	Click on the folder you want to delete.
2.	Delete the folder.

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Search tasks

Search for a spooled file

To search for a spooled file:

1.	Create a spooled file filter.
2.	Define the search criteria in the filter.
3.	Open the filter to perform the search.
4.	WSFM will display the search results as a list of spooled files.

Search for an output queue

To search for an output queue:

1.	Create a queue filter.
2.	Define the search criteria in the filter.
3.	Open the filter to perform the search.
4.	WSFM will display the search results as a list of output queues.
5.	Select an output queue from the search results list.
6.	Choose All to see all spooled files in the output queue, or Choose Current User to see only spooled files for the user logged on.

Spooled file tasks

Search for a spooled file

To search for a spooled file:

1.	Create a spooled file filter.
2.	Define the search criteria in the filter.
3.	Open the filter to perform the search.
4.	WSFM will display the search results as a list of spooled files.

View the content of a spooled file

To view the content of a spooled file:

1.	Create a spooled file filter or open a saved spooled file filter.
2.	Define the search criteria, if this is a new search. Amend the search criteria, if this a saved search (where necessary).
3.	Perform the search to retrieve a list of spooled files.
4.	View the content of a spooled file from the list of spooled files in the search results.

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Hold, release or delete a spooled file

To hold, release or delete a spooled file:

1.	Create a spooled file filter or open a saved spooled file filter.
2.	Define the search criteria in the filter.
3.	Open the filter to perform the search.
4.	WSFM will display the search results as a list of spooled files.
5.	Choose the spooled file from the list and apply the hold, release or delete action.

Display spooled file properties (attributes)

To display the properties of a spooled file:

1.	Click on a spooled file in the search results.
2.	Choose Properties from the menu.

Output queue tasks

Search for an output queue

To search for an output queue:

1.	Create a queue filter.
2.	Define the search criteria in the filter.
3.	Open the filter to perform the search.
4.	WSFM will display the search results as a list of output queues.

Retrieve a list of the spooled files in an output queue

To retrieve a list of the spooled files in an output queue:

1.	Create a queue filter or open a saved queue filter.
2.	Define the search criteria, if this is a new search. Amend the search criteria, if this a saved search (where necessary). Use explicit search criteria to ensure that the search will return the appropriate output queue.
3.	Perform the search to retrieve a list of spooled files.
4.	Browse the list of spooled files.

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Clear, hold or release an output queue

To clear, hold or release an output queue:

1.	Create a queue filter or open a saved queue filter.
2.	Define the search criteria if this is a new search. Amend the search criteria if this a saved search (where necessary). Use explicit search criteria to ensure that the search will return the appropriate output queue.
3.	Perform the search to retrieve a list of output queues.
4.	Choose the output queue from the list and apply the clear, hold or release action.

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Section 3 - Spooled files and output queues

This section describes how to perform the steps associated with tasks for managing spooled files and output queues.

Information in this section focuses on how to use WSFM to work with lists of spooled files, view and print individual spooled files, and manage output queues.

Spooled files

When you run a search for spooled files, WSFM will return a list of spooled files that match the search criteria. Figure 5 on page 17 is an example of spooled files in a search results list.

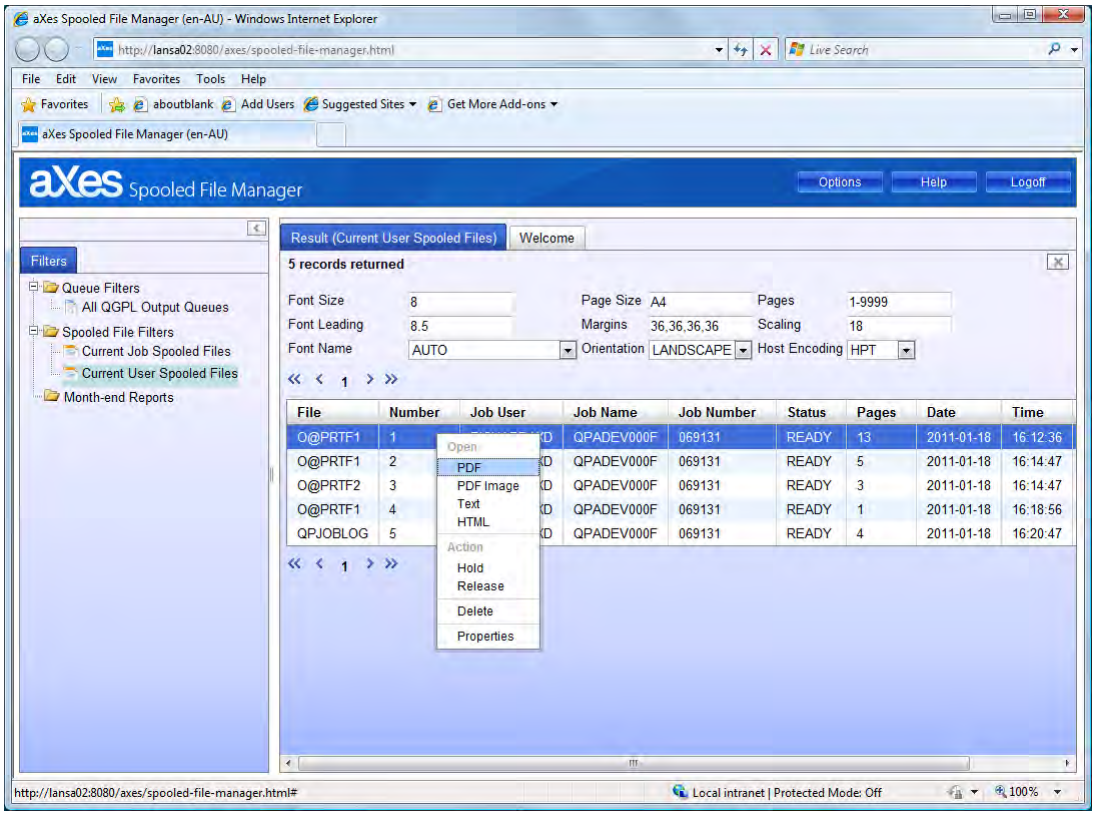


Figure 5: List of Spooled Files Returned from a Search with the Menu Options

Clicking on a row in the list of spooled files will display the menu with options for opening (in multiple formats), holding, releasing and deleting spooled files.

You can change the order of individual columns displayed in the search results and/or hide and show columns. Press the Options button to open the Options tab.

Open a spooled file

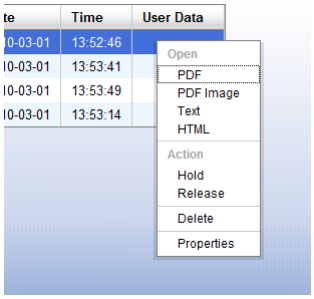
Open a spooled file to view the content of the spooled file. WSFM opens a new window each time you view a spooled file and you may close the windows at your convenience.

WSFM provides several ways to view the content of spooled files.

View as PDF

To open a spooled file and view the content as a PDF:

1.	Click on a row in the search results list to select the spooled file you want to open.
2.	From the floating menu choose Open - PDF.
3.	Wait while WSFM retrieves the spooled file content.
4.	WSFM will open a new window showing the content of the spooled file formatted as a PDF.
5.	Repeat the process to view another spooled file.

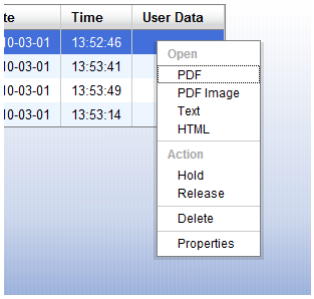


You can copy and paste the content of the PDF rendered this way.

View as PDF image

To open a spooled file and view the content as a PDF image:

1.	Click on a row in the search results list to select the spooled file you want to open.
2.	From the floating menu choose Open - PDF Image.
3.	Wait while WSFM retrieves the spooled file content.
4.	WSFM will open a new window showing the content of the spooled file formatted as a PDF image.
5.	Repeat the process to view another spooled file.



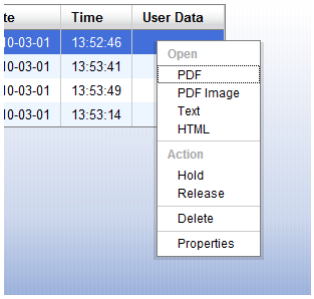
WSFM renders each page in the PDF as an image.

Selecting, copying and pasting the content of the pages from this type of PDF are impractical actions.

View as Text

To open a spooled file and view the content as text:

1.	Click on a row in the search results list to select the spooled file you want to open.
2.	From the floating menu choose Open - Text.
3.	Wait while WSFM retrieves the spooled file content.
4.	WSFM will open a new window showing the content of the spooled file formatted as plain text.
5.	Repeat the process to view another spooled file.



You can copy and paste the content of the spooled file rendered this way.

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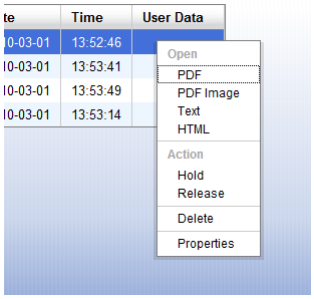
View as HTML

To open a spooled file and view the content as HTML:

1.	Click on a row in the search results list to select the spooled file you want to open.
2.	From the floating menu choose Open - HTML.
3.	Wait while WSFM retrieves the spooled file content.
4.	WSFM will open a new window showing the content of the spooled file formatted as a PDF.
5.	Repeat the process to view another spooled file.



Control how WSFM displays spooled files

The font name and host encoding influence the way WSFM displays spooled files.

Table 1: Use Font and Host Encoding to Control how WSFM Displays Spooled Files

Options	Font Name	Host Encoding	Comments
1	AUTO	HPT	Choose these settings first.
2	AUTO	CFS	Use option 2 when option 1 is unsatisfactory.
3	AUTO	You choose	Use option 3 when both option 1 and option 2 are unsatisfactory.
4	You choose	You choose	Use option 4 when you want absolute control of the font and host encoding.

The default settings for viewing spooled files are font name as AUTO and host encoding as HPT (Host Print Transform). In this case, WSFM uses the print transformations provided by IBM.

If the default settings do not display spooled files correctly, use font name as AUTO and host encoding as Copy Stream File (CFS).

If neither HPT nor CFS display spooled files correctly, you can choose the host encoding. Use font name as AUTO and host encoding as your choice of code page.

Choose values for font and host encoding when you want to absolute control.

If spooled files do not display correctly, the most likely explanation is that a required font has not been installed. WSFM will not display spooled files correctly if the appropriate fonts are not installed.

WARNING	WSFM cannot display spooled files correctly unless appropriate fonts have been installed on the IBM i server.

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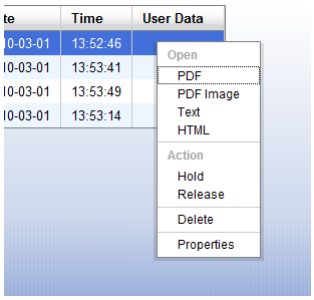
Hold a spooled file

Holding a spooled file prevents the spooled file from being printed.

To hold a spooled file:

1.	Click on a row in the search results list to select the spooled file you want to hold.
2.	From the floating menu choose Action - Hold.
3.	Wait until WSFM asks you to confirm the hold action.
4.	Answer Yes to hold the spooled file. Answer No and WSFM will not hold the spooled file. WSFM will issue the hold command only if you answer yes.



You must release the spooled file before it will print.

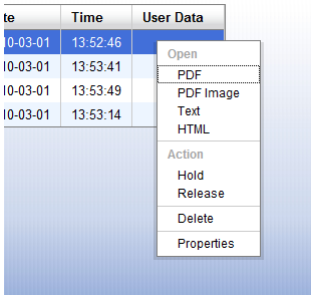
The hold action does not apply to spooled files that have begun printing.

Release a spooled file

Releasing a spooled file allows the spooled file to print.

To release a spooled file:

1.	Click on a row in the search results list to select the spooled file you want to release.
2.	From the floating menu choose Action - Release.
3.	Wait until WSFM asks you to confirm the release action.
4.	Answer Yes to release the spooled file. Answer No and WSFM will not release the spooled file. WSFM will issue the release command only if you answer yes.



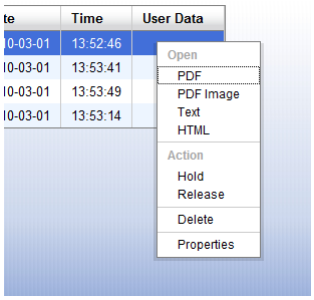
The release action applies only to held spooled files.

Delete a spooled file

Deleting a spooled file removes the spooled file from the output queue.

To delete a spooled file:

1.	Click on a row in the search results list to select the spooled file you want to delete.
2.	From the floating menu choose Action - Delete.
3.	Wait until WSFM asks you to confirm the delete action.
4.	Answer Yes to delete the spooled file. Answer No and WSFM will not delete the spooled file. WSFM will issue the delete command only if you answer yes.



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WARNING	You cannot undelete a deleted spooled file. Exercise care when deleting spooled files.

Spooled file properties

WSFM will display the properties (or attributes) of a spooled file.

The properties contain metadata describing the nature of the spooled file.

You can view and optionally change the properties.

To view the spooled file properties:

1.	Click on a row in the search results list to select the spooled file you want to use.
2.	From the floating menu choose Action - Properties.
3.	Wait until WSFM creates a new tab in the right hand pane and presents the list of spooled file properties.
4.	Browse and/or change the properties.
5.	Press the Save button to keep the changes.
6.	While until WSFM asks you to confirm saving the changes.
7.	Answer Yes to save the properties. Answer No and WSFM will not save the properties.

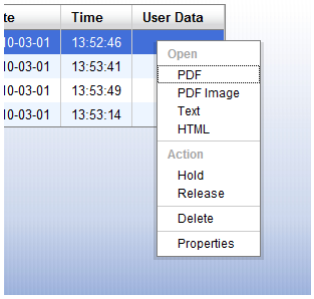

Figure 6 (page 22) shows an example of the properties tab. This is a partial list of the spooled file properties.

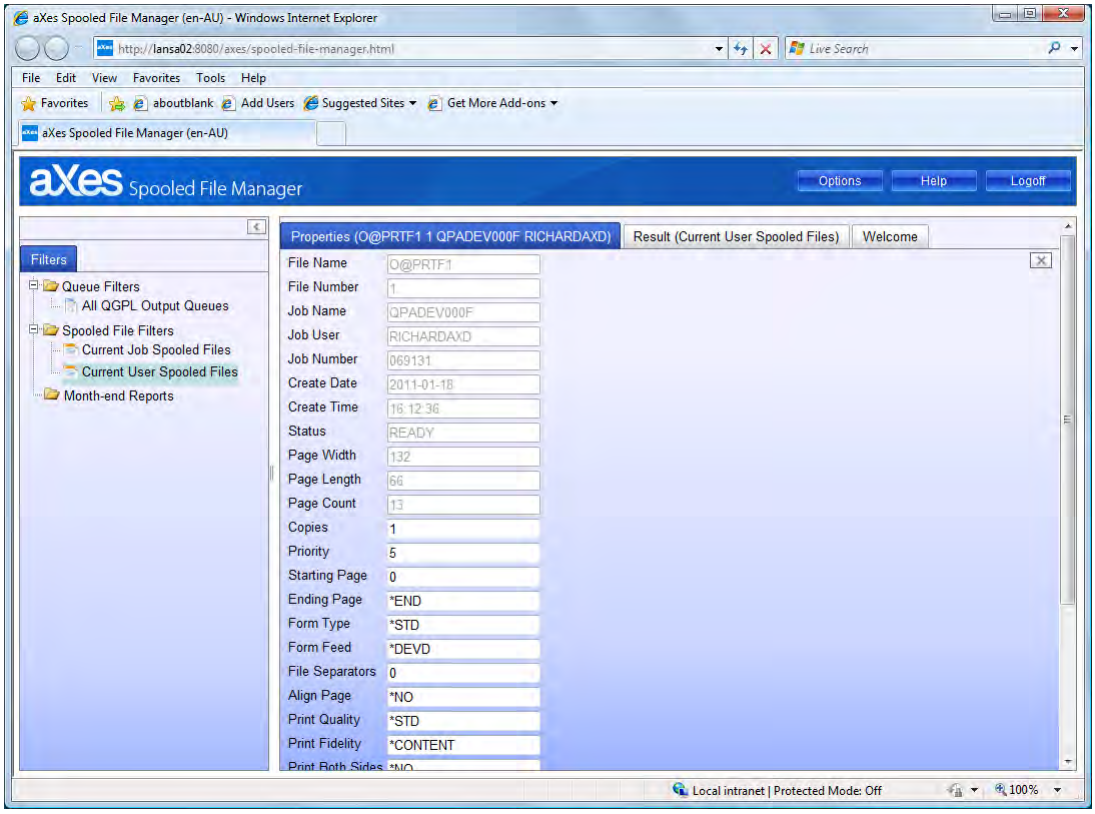

Figure 6: Spooled File Properties

You will need an understanding of what the properties represent. This information is available from the IBM i Center on the IBM Website.

Output queues

Searching for output queues with a filter will return a list of output queues that match the search criteria defined in the filter. The list of output queues will display in a tab in the right-hand pane.

View lists of spooled files in output queues

To view a list of spooled files in an output queue, search for the output queue using an output queue filter. When WSFM completes the search it will show a tab containing the list of output queues that fit the search criteria.

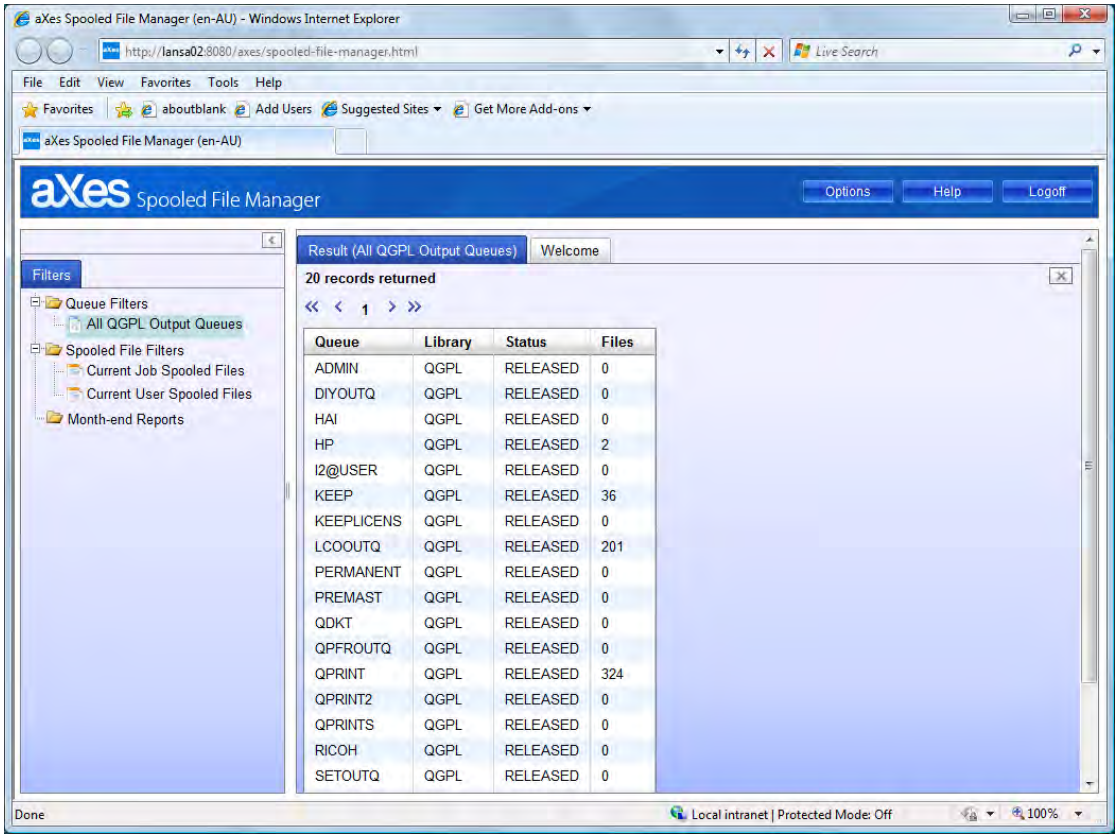

Figure 7: View a List of All Spooled Files in an Output Queue

In this example the output queue filter searches for all output queues in the library QGPL (Figure 7, page 23).

View all spooled files in an output queue

To view all spooled files in an output queue:

1.	Search for the output queue using an output queue filter to create a list containing a: • specific output queue • selection of output queues • list of all output queues
2.	Click on the row in the search results list to select the output queue you which to view.
3.	From the floating menu choose View - All.
4.	Wait until WSFM shows a new tab containing a list of all spooled files in the output queue.

View spooled files in output queues for the current user

To view spooled files in output queues for the current user:

1.	Search for the output queue using an output queue filter to create a list containing a: • specific output queue • selection of output queues • list of all output queues (Library *ALL and Output Queue *ALL) Set the User as *CURRENT
2.	Click on a row in the search results list to select the output queue you which to view.
3.	From the floating menu choose View - Current User.
4.	Wait until WSFM shows a new tab containing a list of the spooled files in the output queue belonging to the person currently logged on.

Clear an output queue

Clearing an output queue removes all of the spooled files from the output queue.

Figure 8 (page 24) shows a list of all output queues in the QGPL library. You create this list by running a search using an output queue filter with search criteria set for all output queues in library QGPL.

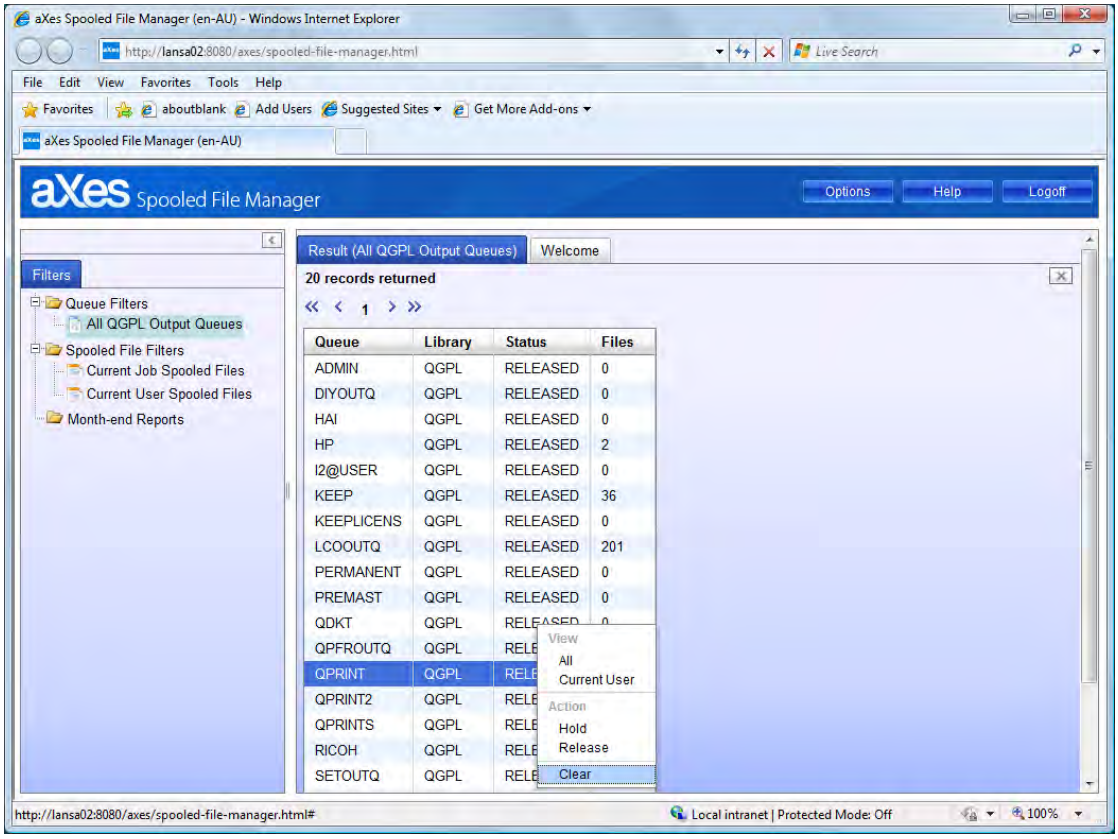

Figure 8: Clear an Output Queue

To clear an output queue:

1.	Search for the output queue using an output queue filter to create a list containing a: • specific output queue • selection of output queues • list of all output queues
2.	Click on a row in the search results list to select the output queue you which to clear.
3.	From the floating menu choose Action - Clear.
4.	Wait until WSFM asks you to confirm the clear action.
5.	Answer Yes to clear the output queue. Answer No and WSFM will not clear the output queue. WSFM will issue the clear command only if you answer yes.

Use with care - the clear command removes all spooled files from the output queue.

Hold an output queue

Holding an output queue prevents spooled files in an output queue from being printed (Figure 9, page 25). The hold command applies to all spooled files in the output queue waiting to start printing and all new spooled files added to the output queue, after issuing the hold output queue command.

Spooled files printing when the hold command is issued will continue to print.

You must release the output queue to resume printing spooled files in the output queue.

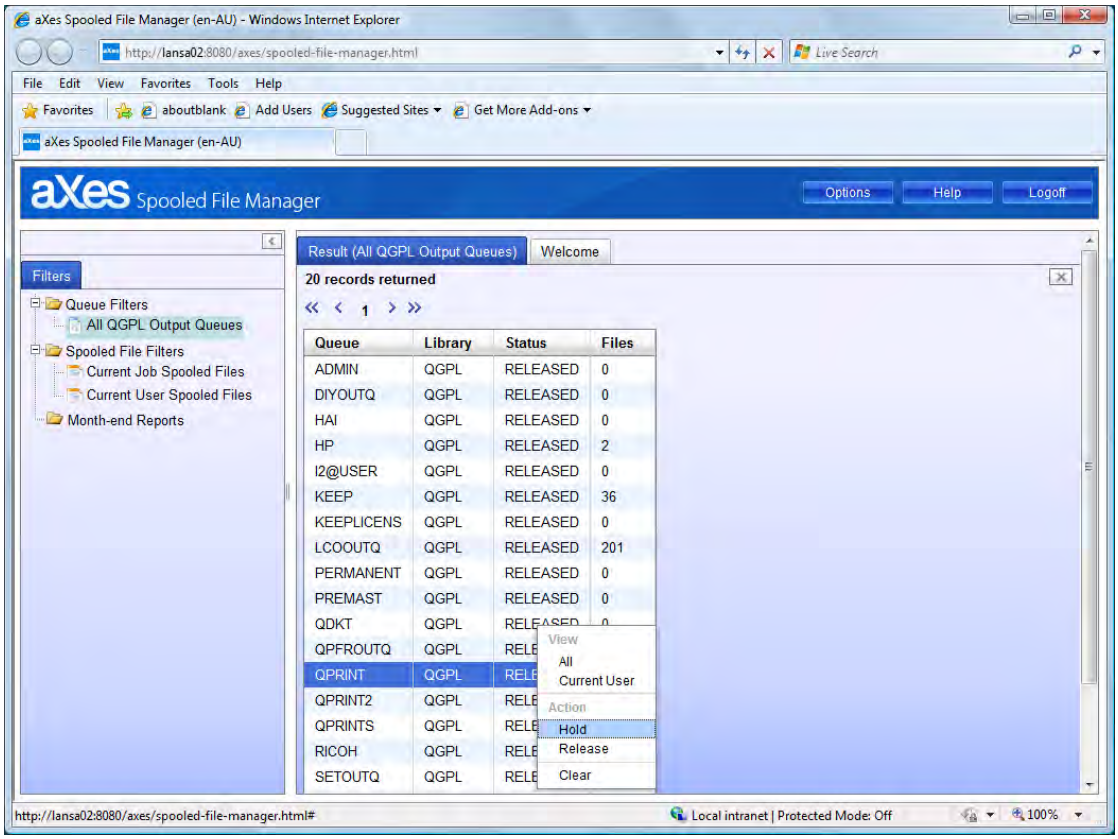

Figure 9: Hold an Output Queue

To hold an output queue:

1.	Search for the output queue using an output queue filter to create a list containing a: • specific output queue • selection of output queues • list of all output queues
2.	Click on a row in the search results list to select the output queue you which to hold.
3.	From the floating menu choose Action - Hold.
4.	Wait until WSFM asks you to confirm the hold action.
5.	Answer Yes to hold the output queue. Answer No and WSFM will not hold the output queue. WSFM will issue the hold command only if you answer yes.

Use the release option to reverse the effect of the hold.

Release an output queue

Releasing an output queue resumes printing for spooled files in an output queue (Figure 10, page 26). The release command applies only to held output queues.

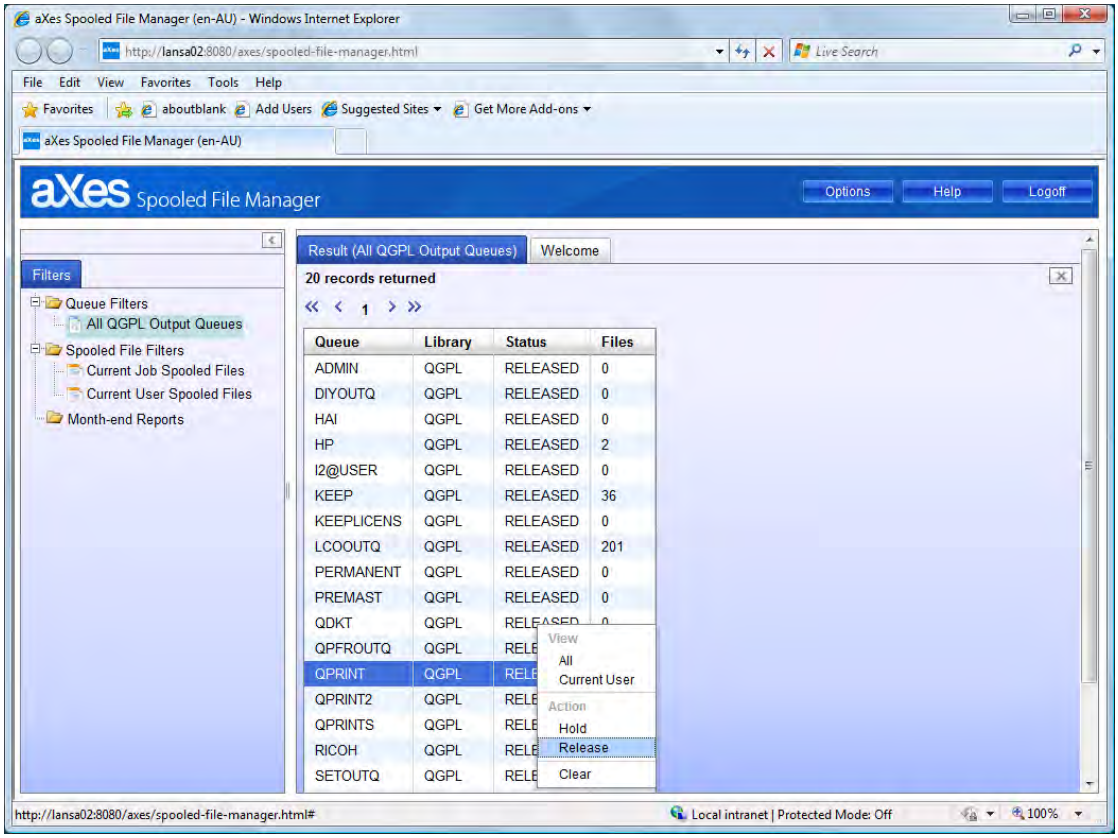

Figure 10: Release an Output Queue

To release an output queue:

1.	Search for the output queue using an output queue filter to create a list containing a: • specific output queue • selection of output queues • list of all output queues
2.	Click on a row in the search results list to select the output queue you which to release.
3.	From the floating menu choose Action - Release.
4.	Wait until WSFM asks you to confirm the release action.
5.	Answer Yes to release the output queue. Answer No and WSFM will not release the output queue. WSFM will issue the release command only if you answer yes.

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Section 4 - Searches, filters and folders

This section describes how to use searches, filters and folders. Examples are:

- Define search criteria and the filters used for retrieving lists of spooled files
- Perform a search
- Save search criteria
- Create and manage folders

Searches

You search for spooled files by opening a filter. There are two types of filters, spooled file filters and queue filters (or output queue filters).

Spooled file filters search for spooled files in any output queue. Use this type of filter when you know the spooled files but not a specific output queue. This is the slower way to search.

Queue filters search for spooled files by output queue and library. Use this type of filter when you know the output queue (or queues) and want to search for spooled files in the output queue(s). Searching one output queue is the faster way to search.

Filters

Spooled file filters

WSFM comes with a sample spooled file filter saved in the Spooled File Filters folder.

Use the sample spooled file filter as a model for creating your spooled file filters.

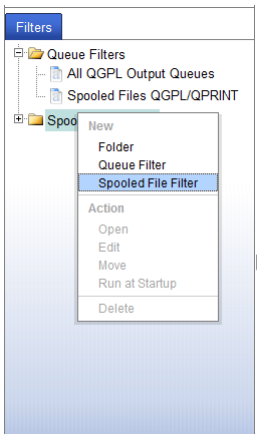
Searching with a spooled file filter

You search with a spooled file filter by opening the spooled file filter.

Create a spooled file filter

To create a spooled file filter:

1.	In the filters pane click on a folder name.
2.	From the floating menu choose New - Spooled File Filter.
3.	Wait until WSFM shows the tab to edit the filter.
4.	Type your search criteria and filter details.
5.	Press the Reset button to clear the tab and start over.
6.	Press the Save button to save the filter in a folder.
7.	WSFM will ask you to confirm the save action: Answer Yes to save the filter. Answer No and WSFM will not save the filter.
8.	Press the Search button to start searching immediately. You can search without saving the filter.



You can move the filter to a folder of your choice at any time.

When creating a filter, define the search criteria for the spooled file filter on the tab (Figure 11, page 29).

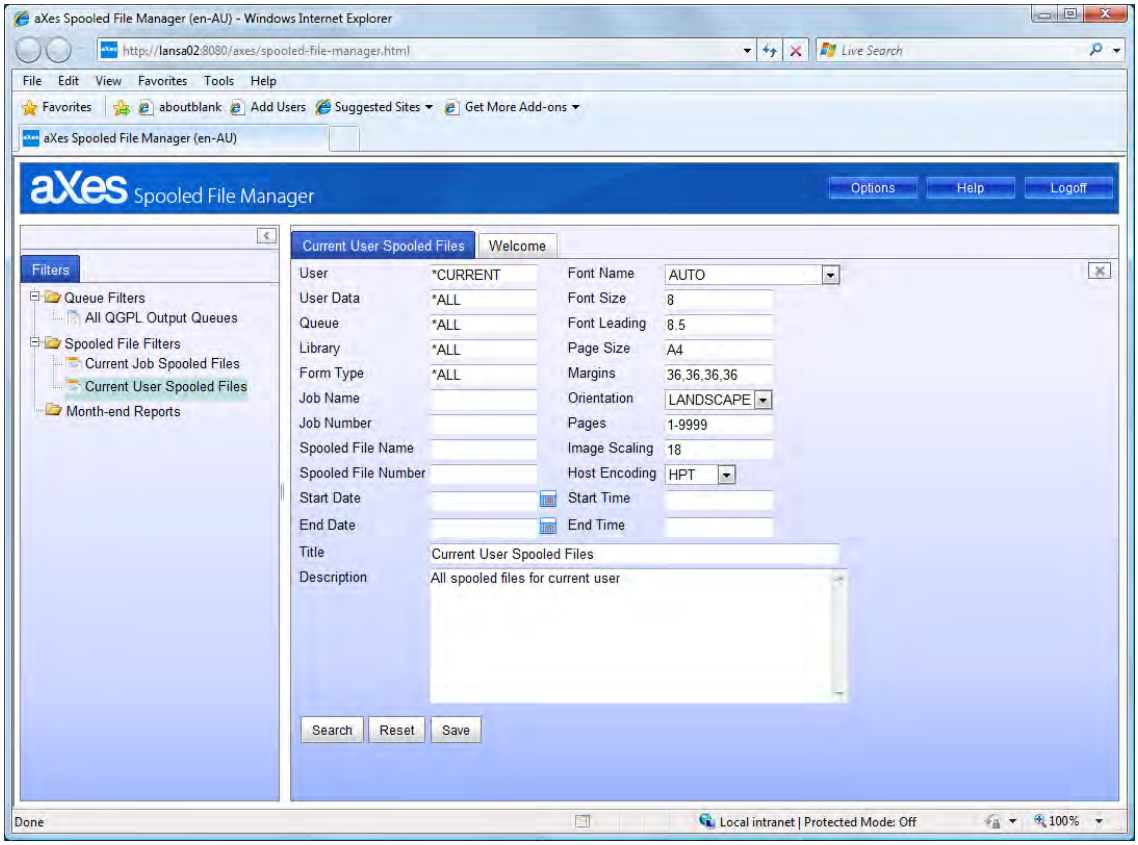


Figure 11: Create and Edit Spooled File Filter Tab

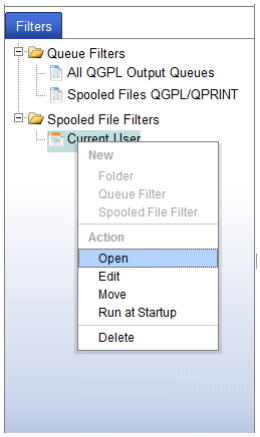
Table 3 (page 41) describes the items in the search criteria and filter details for a spooled file filter.

Open a spooled file filter

Opening a spooled file filter starts the search for spooled files based on the search criteria described in the filter.

To open a spooled file filter:

1.	In the filters pane click on the filter name.
2.	From the floating menu choose Action - Open.
3.	Wait while WSFM performs the search.
4.	View the search results. WSFM displays the search results in a new tab in the right-hand pane.



Edit a spooled file filter

To change the search criteria described by the filter you edit the filter.

To edit a spooled file filter:

1.	In the filters pane click on the filter name.
2.	From the floating menu choose Action - Edit.
3.	Wait until WSFM shows the tab to edit the filter.
4.	Type your search criteria and filter details.
5.	Press the Reset button to clear the tab and start over.
6.	Press the Save button to save the filter in a folder. WSFM will ask you to confirm the save action: Answer Yes to save the filter. Answer No and WSFM will not save the filter.
7.	Press the Search button to start searching immediately. You can search without saving the filter.

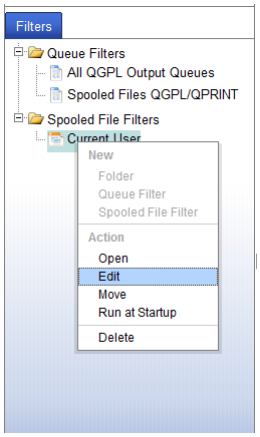


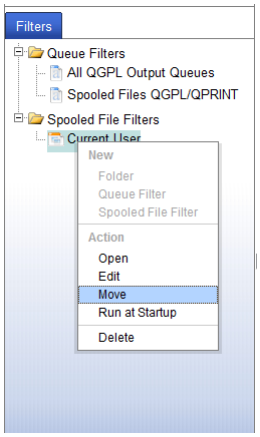
Figure 11 (page 29) shows an example of an edit tab for a spooled file filter.

Move a spooled file filter

Move allows you relocate a spooled file filter from its existing folder to another folder.

To move a spooled file filter:

1.	In the filters pane click on the filter name.
2.	From the floating menu choose Action - Move.
3.	Wait until WSFM shows the list of folders available as destinations for the move (Figure 12, page 31).
4.	Choose a folder from the list and click on the name.
5.	Press OK to complete the move.
6.	Press Cancel to stop the move.



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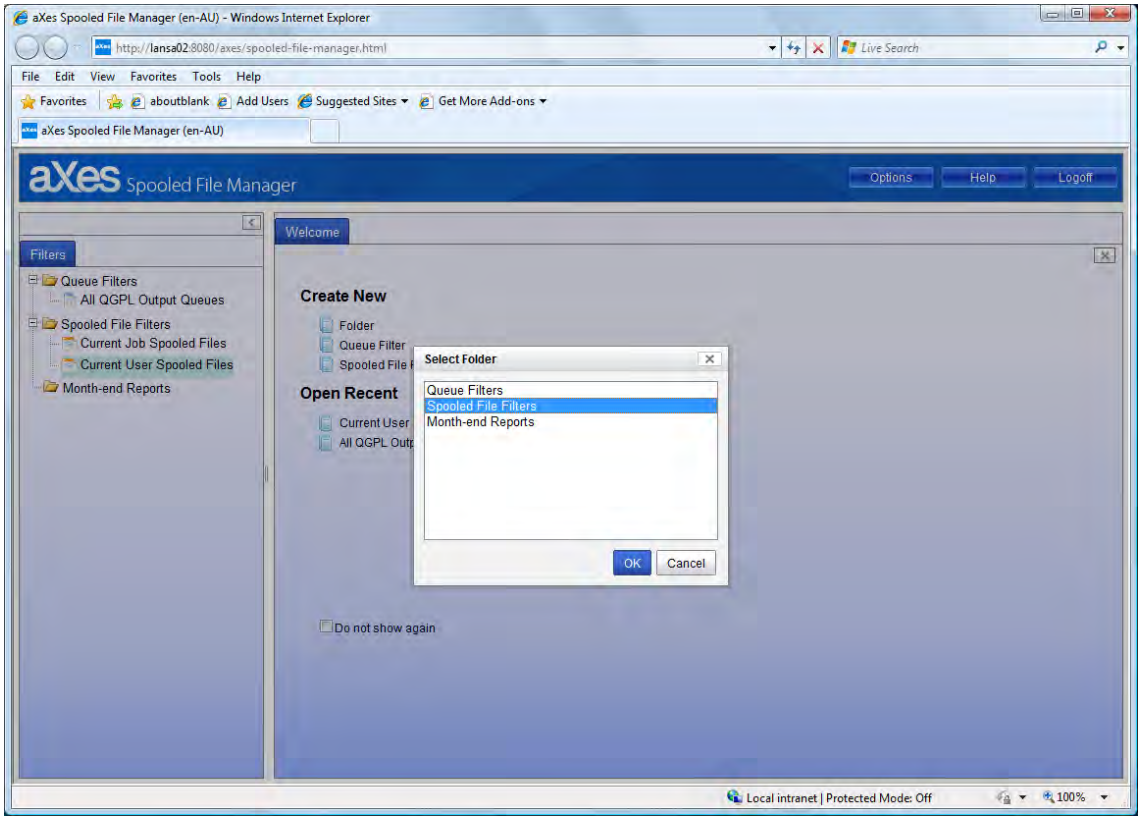


Figure 12: Moving a Spooled File Filter - Select Folder Dialog

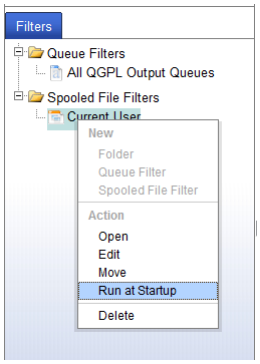
Figure 12 (page 31) shows the list of folders available as destinations when moving a spooled file filter.

Run a spooled file filter when WSFM starts

If you want to run a filter immediately when WSFM starts, set the start-up action for the filter you want to run.

To run a spooled file filter when WSFM starts:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Run at Startup.
3.	WSFM will change the filter name on the Options tab



WSFM will run only one filter when it starts.

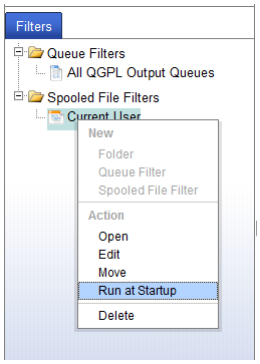
Running a filter when WSFM starts may take some time, depending on the search criteria described in the filter.

Change the spooled file filter that runs when WSFM starts

To change the spooled file filter that runs immediately when WSFM starts, set the start-up action for another filter you want to run.

To change the spooled file filter that runs when WSFM starts:

1.	In the filters pane click on a folder name.
2.	From the floating menu choose Action - Run at Startup.
3.	WSFM will remove the original spooled file filter as the start-up filter.
4.	WSFM will change the filter name on the Options tab to the chosen spooled file filter

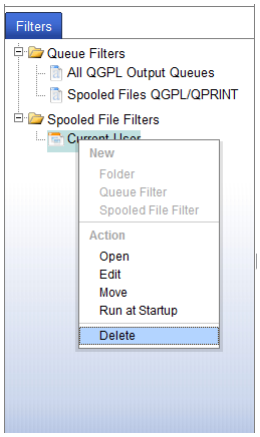


Delete a spooled file filter

Deleting a spooled file filter removes the filter from WSFM.

To delete a spooled file filter:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Delete.
3.	Wait until WSFM asks you to confirm the delete.
4.	Answer Yes to delete the filter. Answer No and WSFM will not delete the filter.



WARNING	You cannot undelete a spooled file filter. Exercise care when deleting spooled file filters.

Queue filters

WSFM comes with a sample queue filter saved in the Queue Filters folder.

Use the sample queue filter as a model for creating your queue filters.

Searching with a queue filter

You search with a queue filter by opening the queue filter.

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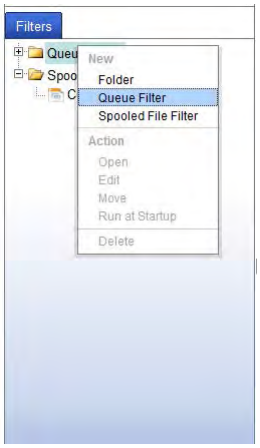
Create a queue filter

To create a queue filter:

1.	In the filters pane click on a folder.
2.	From the floating menu choose New - Queue Filter.
3.	Wait until WSFM shows the tab to edit the filter.
4.	Type your search criteria for the filter.
5.	Press the Reset button to clear the tab and start over.
6.	Press the Save button to save the filter in a folder. WSFM will ask you to confirm the save action: Answer Yes to save the filter. Answer No and WSFM will not save the filter.
7.	Press the Search button to start searching immediately. You can search without saving the filter.



When creating the filter, define the search criteria and details (Figure 13, page 33).

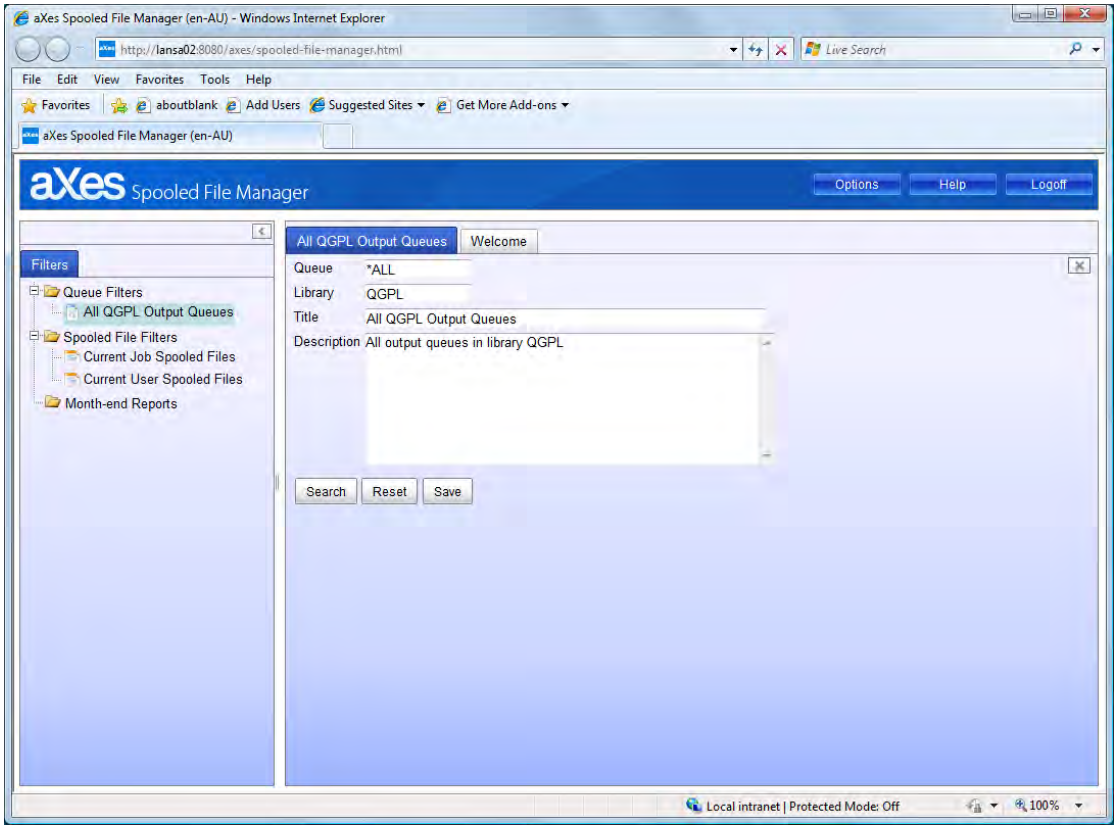


Figure 13: Create and Edit Queue Filter Tab

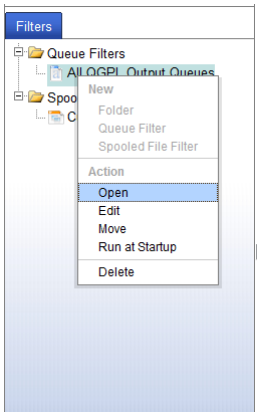
Table 4 (page 43) explains the items in the search criteria for a queue filter.

Open a queue filter

Opening a queue filter starts the search for spooled files based on the search criteria described in the filter.

To open a queue filter:

1.	In the filters pane click on the filter name.
2.	From the floating menu choose Action - Open.
3.	Wait while WSFM performs the search.
4.	View the search results. WSFM displays the search results in a new tab in the right-hand pane.



Edit a queue filter

To change the search criteria and filter details you edit the filter.

To edit a queue filter:

1.	In the filters pane click on the filter name.
2.	From the floating menu choose Action - Edit.
3.	Wait until WSFM shows the tab to edit the filter.
4.	Type your search criteria and filter details.
5.	Press the Reset button to clear the tab and start over.
6.	Press the Save button to save the filter in a folder. WSFM will ask you to confirm the save action: Answer Yes to save the filter. Answer No and WSFM will not save the filter.
7.	Press the Search button to start searching immediately. You can search without saving the filter.

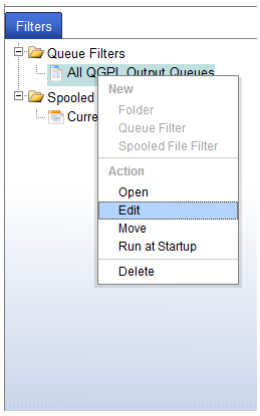


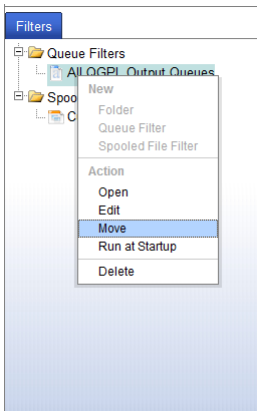
Figure 13 (page 33) shows an example of an edit tab for a queue filter.

Move a queue filter

Move allows you relocate a queue filter from its existing folder to another folder.

To move a queue filter:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Move.
3.	Wait until WSFM shows the list of folders available as destinations for the move (Select Folder dialog, Figure 14, page 35).
4.	Choose a folder from the list and click on the name.
5.	Press OK to complete the move.
6.	Press Cancel to stop the move.



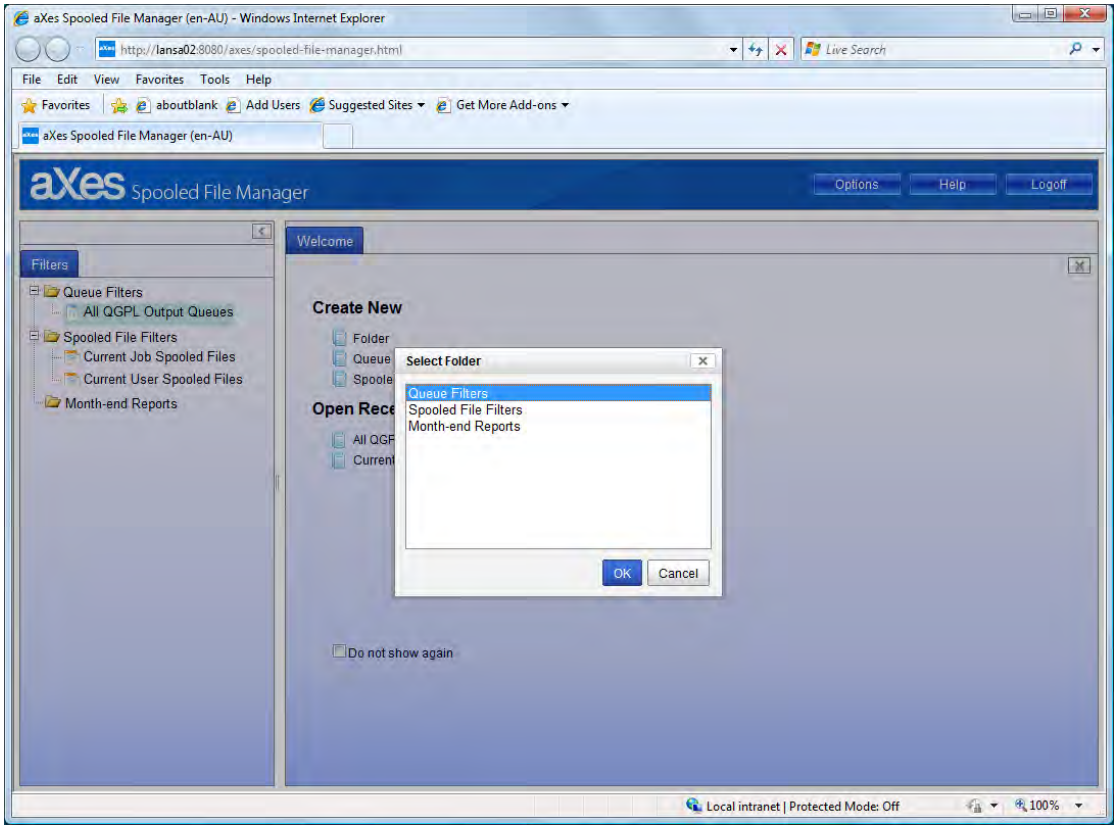


Figure 14: Moving a Queue Filter - Select Folder Dialog

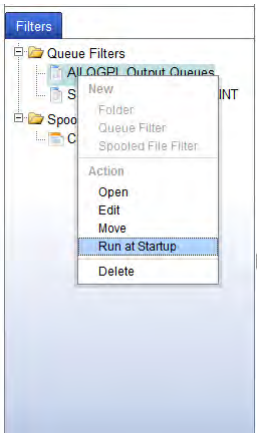
Figure 14 shows the list of folders available as destinations when moving a queue filter.

Run a queue filter when WSFM starts

To run a queue filter immediately when WSFM starts, set the start-up action for the filter you want to run.

To run a queue filter when WSFM starts:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Run at Startup.
3.	WSFM will change the filter name on the Options tab



WSFM will run only one filter when it starts.

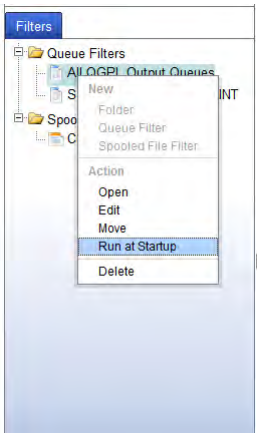
Running a filter when WSFM starts may take some time, depending on the search criteria described in the filter.

Change the queue filter that runs when WSFM starts

To change the queue filter that runs immediately when WSFM starts, set the start-up action for another filter you want to run.

To change the queue filter that runs when WSFM starts:

1.	In the filters pane click on the filter name that you want to run when WSFM starts.
2.	From the floating menu choose Action - Run at Startup.
3.	WSFM will remove the original queue filter as the start-up filter.
4.	WSFM will change the filter name on the Options tab to the chosen queue filter

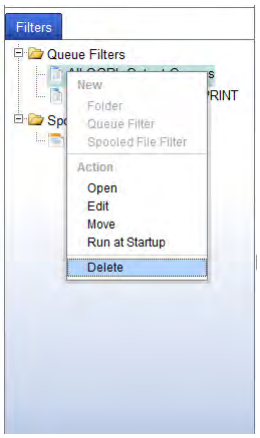


Delete a queue filter

Deleting a queue filter removes the filter from WSFM.

To delete a queue filter:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Delete.
3.	Wait until WSFM asks you to confirm the delete.
4.	Answer Yes to delete the filter. Answer No and WSFM will not delete the filter.



WARNING	You cannot undelete a queue filter. Exercise care when deleting queue filters.

Folders

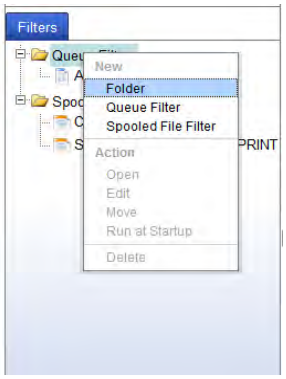
You can organise your filters by saving them in folders. You must create the folder or folders you want to use before you can save a filter in a folder.

When naming a folder avoid generic names. Instead, choose names that indicate the content of the folder. Using appropriate names will help you to find filters quickly.

Create a folder

To create a folder:

1.	In the filters pane click on a folder name.
2.	From the floating menu choose New - Folder.
3.	Wait until WSFM shows the folder title dialogue box.
4.	Type a title for the folder in the folder dialogue box.
5.	Press OK to save the folder. Press Cancel if you do not want to keep the folder.



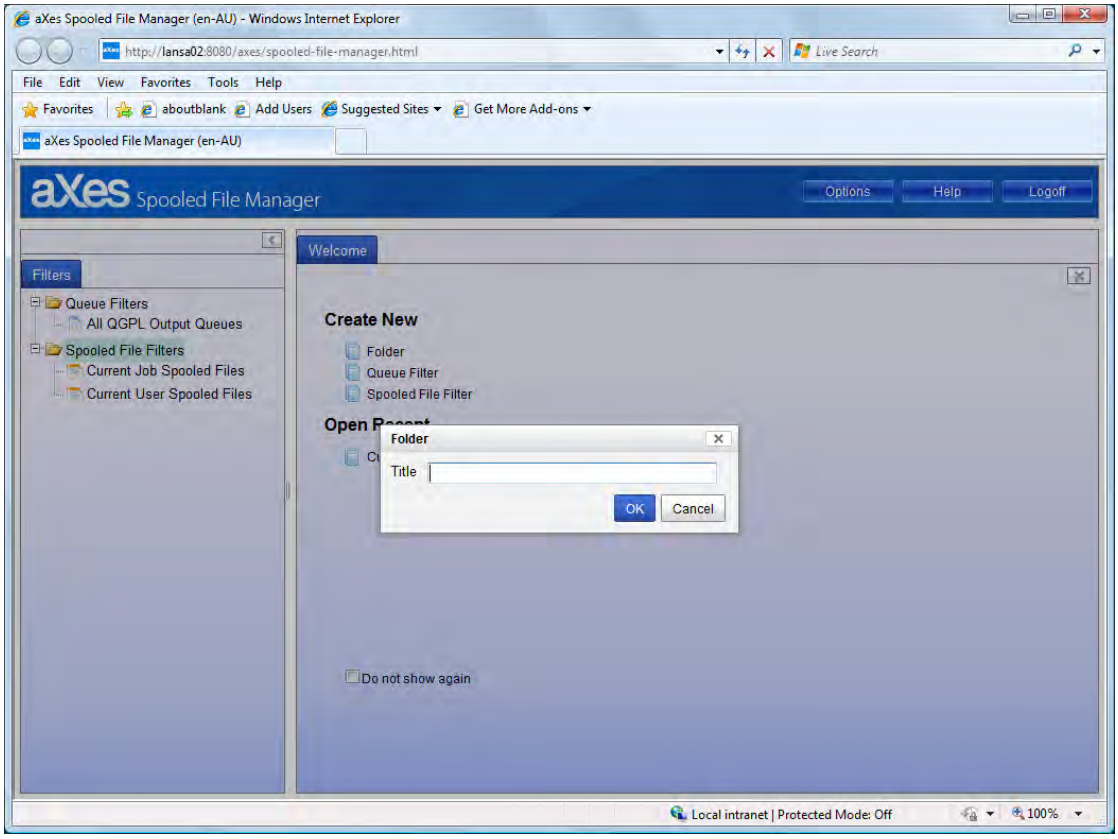


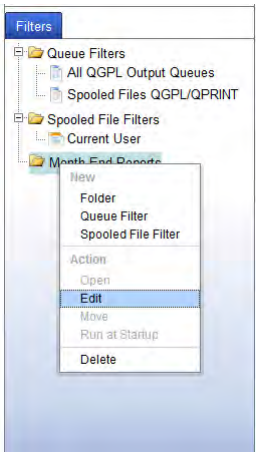
Figure 15: Create Folder - Define Folder Title

Figure 15 (page 37) shows the dialog to define a title (or name) for a new folder.

Edit folder properties

To edit a folder:

1.	In the filters pane click on a folder name.
2.	From the floating menu choose Action - Edit.
3.	Wait until WSFM shows the folder dialogue box.
4.	Edit the folder title in the folder dialogue box.
5.	Press OK to save the folder. Press Cancel if you do not want to change the folder title.



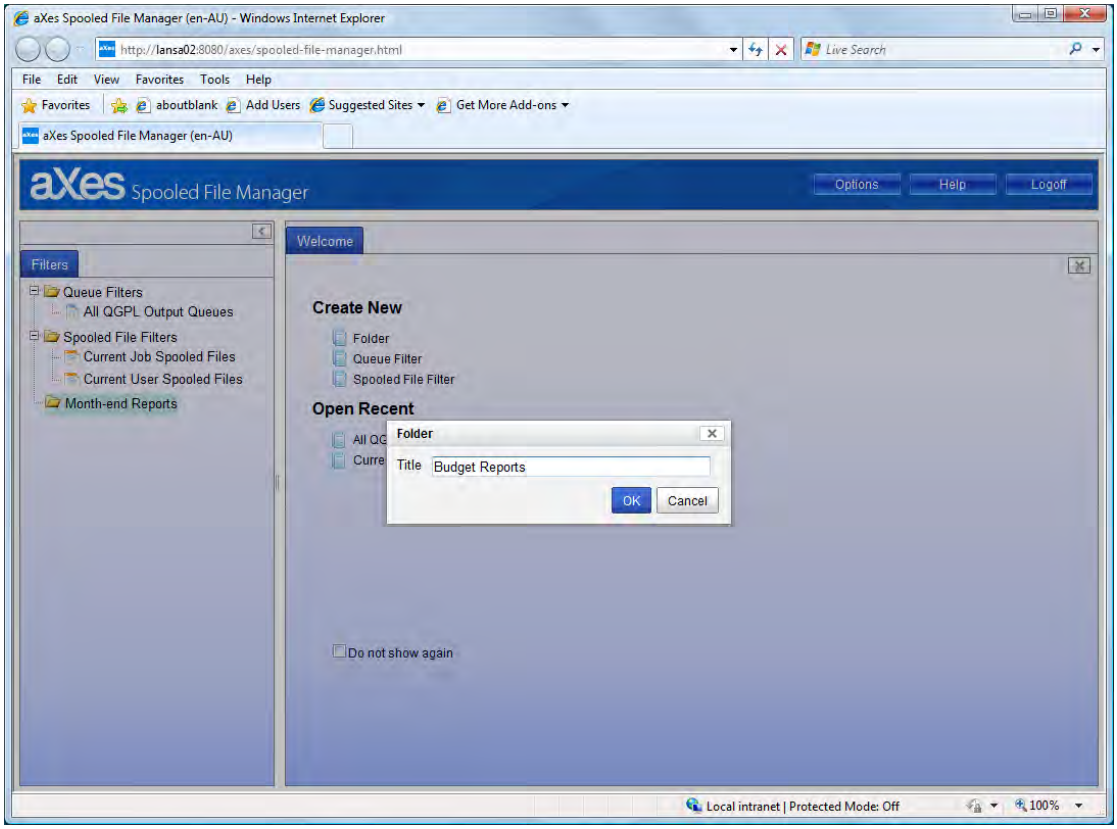


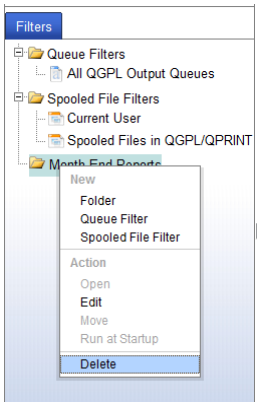
Figure 16: Edit Folder Title

Figure 16 (page 38) shows the folder title changed from "Month End Reports" to "Budget Reports".

Delete a folder

To delete a folder:

1.	In the filters pane click on the folder name.
2.	From the floating menu choose Action - Delete.
3.	Wait until WSFM asks you to confirm the delete.
4.	Answer Yes to delete the folder. Answer No and WSFM will not delete the folder.



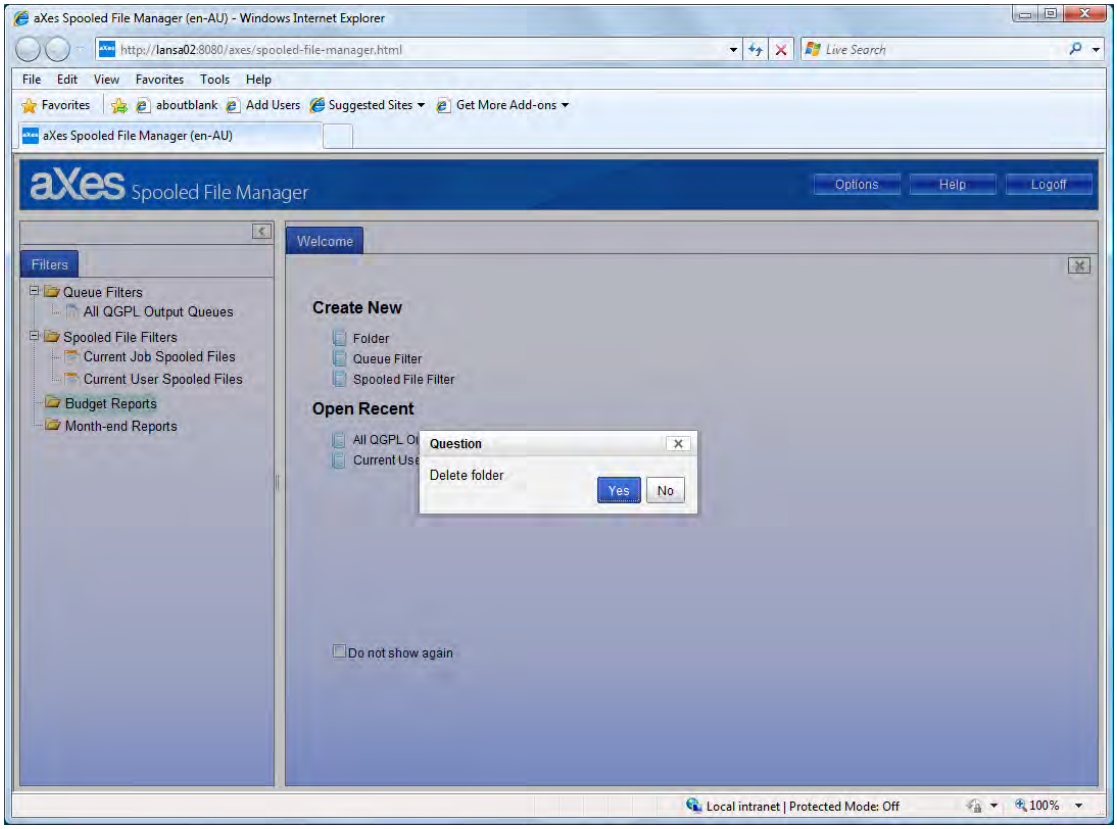


Figure 17: Delete Folder - Confirm Delete

When you delete a folder WSFM asks you for confirmation before it deletes the folder (Figure 17, page 39).

Section 5 - Concepts and configuration

The information in this section describes the components of WSFM.

Filters

About filters

Filters contain the search criteria WSFM uses when performing searches. There are two types of filters, spooled file filters and queue filters (or output queue filters).

Use spooled file filters to search for spooled files across one or more output queues. For example, search for all spooled files associated with the person currently logged on (this is the current user filter).

Use queue filters to search for spooled files by specific output queues. For example, search for all spooled files in the output queue QPRINT in the library QGPL.

Table 2: Filter Questions and Answers

Questions	Answers
Can I save filters?	Yes, you save filters in folders. Use the default folders or create your own folders.
Can I edit the name of the start-up filter on the Options tab?	No. You set the start-up filter from the filter itself. There is no need to edit the filter name on the Options tab.
Do I need to save a filter to perform a search?	No. You can create a filter, perform the search, select a spooled file from the search results and view the content of the spooled file as one task. If you do not want to keep the filter, close the tab.
How do I close a filter tab?	Press the close icon on the tab.
Why are there two types of filters?	The primary reason for different types of filters is to simplify the way you define search criteria. Searching for output queues has fewer search criteria than searching for spooled files. Searching for spooled files provides a more detailed method for searching but also introduces more complexity in the search. WSFM comes with a sample spooled file filter and a sample queue filter. Use these filters as models when building your filters.

WSFM recognises that you might want to save searches and use them again. Folders provide places for you to save the filters that define your searches.

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Spooled file filters

Search criteria

Figure 18 (page 41) shows the edit tab for a spooled file filter and highlights the search criteria. Notice that the search criteria properties are a subset of all the properties.

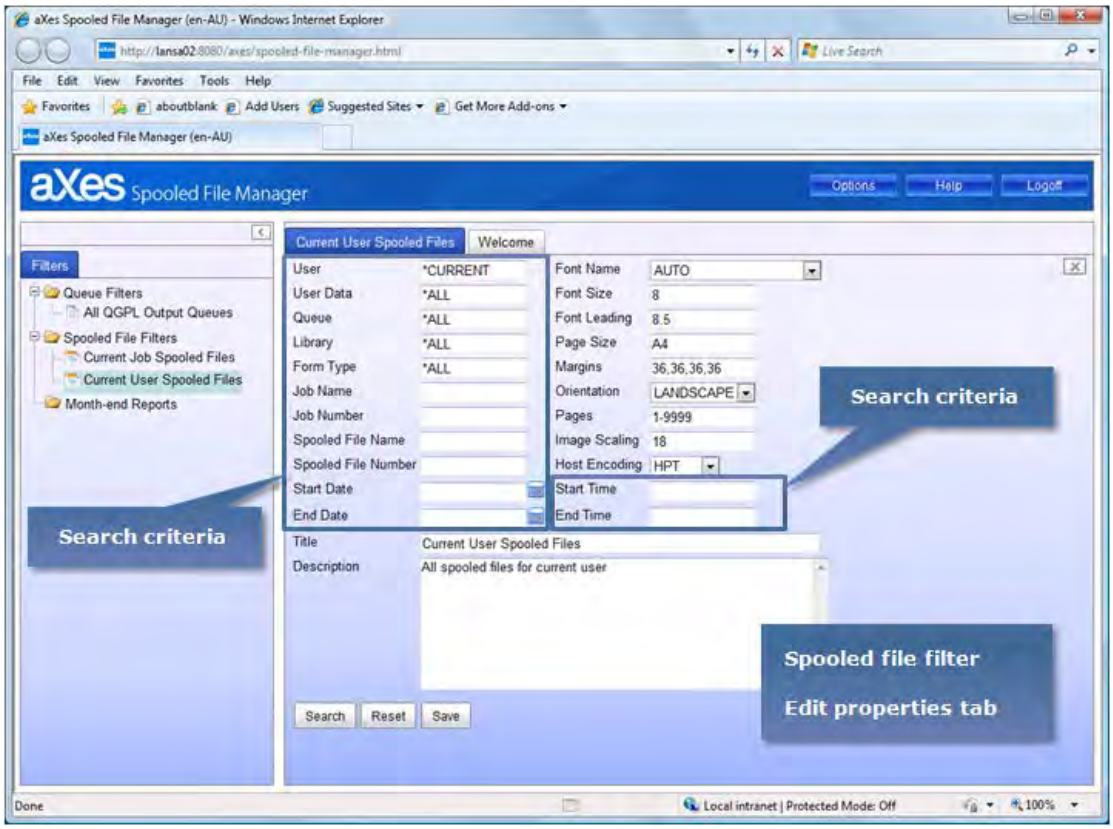

Figure 18: Spooled File Filter Search Criteria

WSFM uses the properties labelled as search criteria when searching. You may use any combination of these properties for searches.

Refresh spooled file search results

Right clicking on empty space on the search result tab will open a floating menu.

Choose the Refresh option to have WSFM refresh the search results.

Properties

Table 3 (page 41) contains a list of properties associated with a spooled file filter. Column one is the property name, column two defines the searchable properties and column three describes the way WSFM uses the property.

Table 3: Spooled File Filter Properties

Properties	Search	Descriptions
Description	No	The description provides an extended explanation for the search
End Date	Yes	Last date in date range search criteria
End time	Yes	Finish time in time range search criteria

Properties	Search	Descriptions
Font Leading	No	Controls the way WSFM displays PDF spooled file content
Font Name	No	Controls the way WSFM displays PDF spooled file content
Font Size	No	Controls the way WSFM displays PDF spooled file content
Form Type	Yes	
Host Encoding	No	Controls the way WSFM displays spooled file content
Image scaling	No	Controls the way WSFM displays PDF image spooled file content by defining how much to increase or decrease the page size expressed as a percentage (for example 30%).
Job Name	Yes	
Job Number	Yes	
Library	Yes	Full name, partial name or *ALL
Margins	No	Controls the way WSFM displays spooled file content
Orientation	No	Controls the way WSFM displays spooled file content
Page Size	No	Controls the way WSFM displays spooled file content
Paging	No	Controls the way WSFM displays spooled file content
Queue	Yes	Full name, partial name or *ALL
Spooled File Name	Yes	
Spooled File Number	Yes	
Start Date	Yes	First date in date range search criteria
Start Time	Yes	Begin time in time range search criteria
Title	No	Provide a title for the filter. The title is the name you see in the Filters pane.
User	Yes	
User data	Yes	

The search criteria conventions WSFM uses when you define searches for spooled files follows the conventions for partial names and wildcards implemented by the IBM i operating system.

Queue filters

Search criteria

Figure 19 (page 43) shows the edit tab for a queue filter and highlights the search criteria.

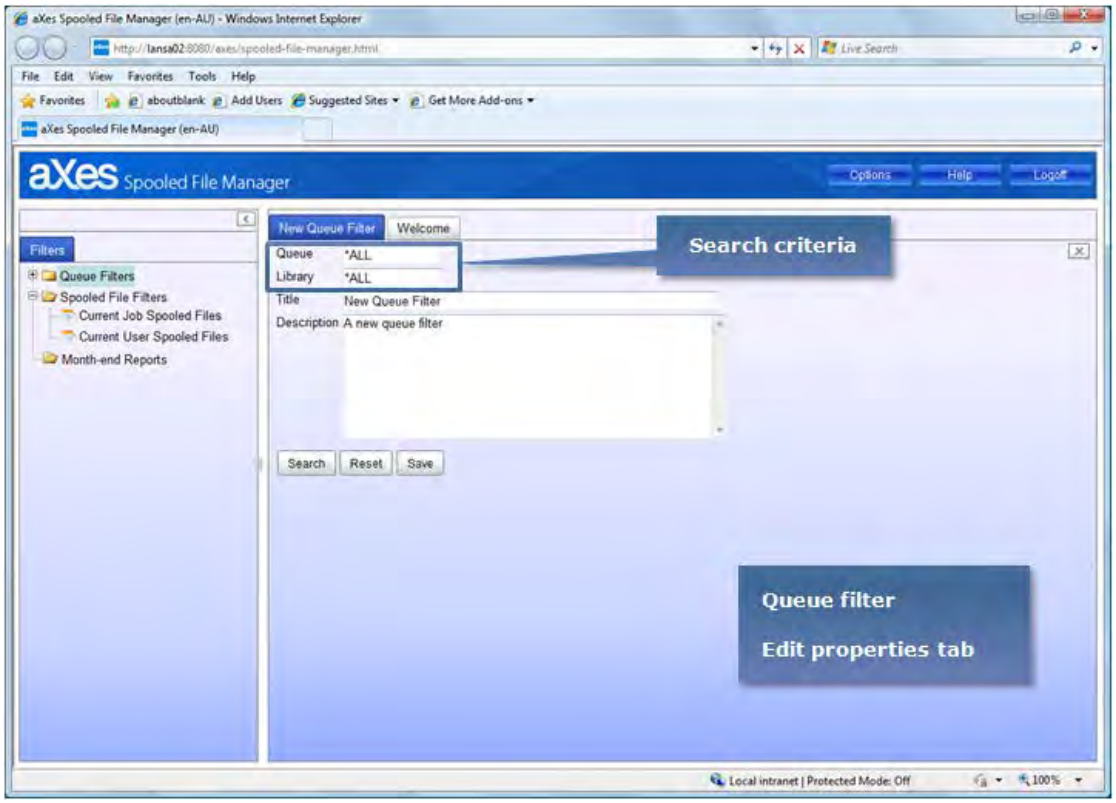

Figure 19: Queue Filter Search Criteria

WSFM uses the output queue name and the library name as search criteria. You may use any combination of these properties for searches.

Refresh queue search results

Right clicking on empty space on the search result tab will open a floating menu.

Choose the Refresh option to have WSFM refresh the search results.

Properties

Table 4 (page 43) contains a list of the properties of a queue filter.

Table 4: Queue Filter Properties

Properties	Search	Descriptions
Queue	Yes	Search using full name, partial name or *ALL
Library	Yes	Search using full name, partial name or *ALL
Title	No	Provide a title for the filter. The title is the name of the filter you see in the Filters pane.

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Properties	Search	Descriptions
Description	No	The description provides an extended explanation of the search criteria. Use the description to explain what the filter searches for to remind you of the purpose of the filter.

The search criteria conventions WSFM uses when you define searches for output queues follows the conventions for partial names and wildcards implemented by the IBM i operating system.

Running filters at start-up

One of the options on the filters menu sets the filter to run when WSFM starts. This is the only way to set the start-up filter. WSFM will run only one filter when it starts. If you want to change the start-up filter, choose the filter you want to run at start-up and WSFM will remove the original start-up filter and replace it with your new choice.

To stop a filter running automatically when WSFM starts, use the Clear-Startup-Filter button on the Options tab.

Running a filter when WSFM starts may take some time, depending on the search criteria described in the filter. You can take no other action while the filter runs. You should decide whether it is better for you to run the filter automatically and wait when WSFM starts, or have immediate access to WSFM and open the filter yourself.

Folders

WSFM recognises that you might want to save searches and use them again. Folders provide places for you to save the filters that define your searches.

Table 5: Folder Questions and Answers

Questions	Answers
Can I save all filters in one folder?	Yes. However, finding filters will become more difficult as the list of filters grows, unless you implement precise conventions for naming your filters.
Can I undelete folders?	No
Can I move a folder?	No
Is there a limit to the number of folders?	WSFM imposes no limit to the number of folders.
What happens to the filters in a folder when I delete the folder?	Deleting a folder deletes all filters in the folder and the folder itself. If you want to delete a folder but retain the filters, move the filter(s) to another folder before deleting the folder.
What is the maximum number of characters allowed in folder titles?	Eighty (80) characters, including spaces.
Why use multiple folders?	Multiple folders will help you find saved filters. They provide a way to organise filters into subject matter groups.

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WSFM provides two default folders, Queue Filters and Spooled File Filters and each folder contains a model filter. These folders and filters are examples of how you might save your filters.

Options

The Options tab allows you to control the way WSFM behaves.

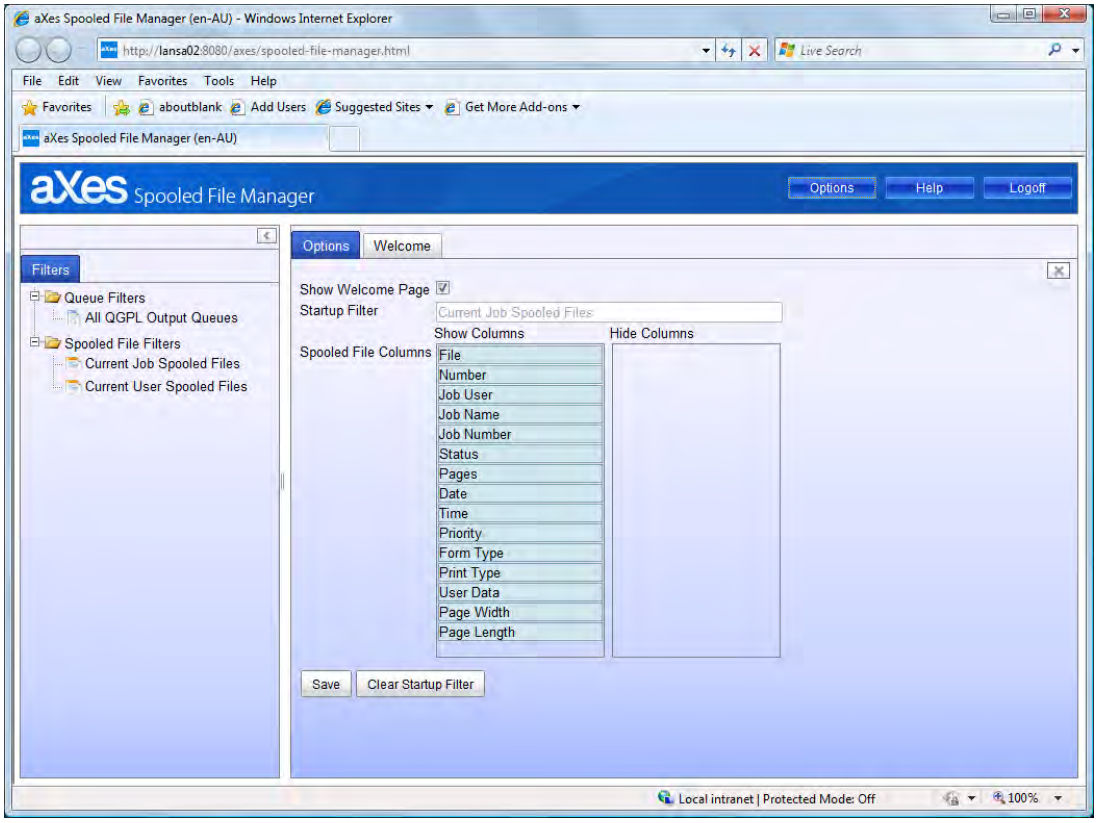
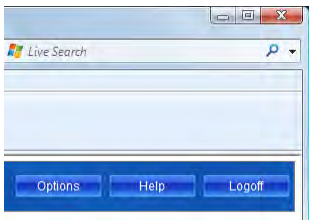


Figure 20: Options Tab

Options tab

To open the Options tab:

1.	Click the button labelled Options (upper right of page).
2.	Wait until WSFM displays the Options tab.
3.	Once the Options tab is in view you can change any of the available options.



The Options button resides at the top of the page on the right-hand side, adjacent to the Help and Logoff buttons.

Welcome page

Page content

The Welcome page is the default page displayed when you start WSFM for the first time. The Welcome page will show each time WSFM starts unless you choose to hide it.

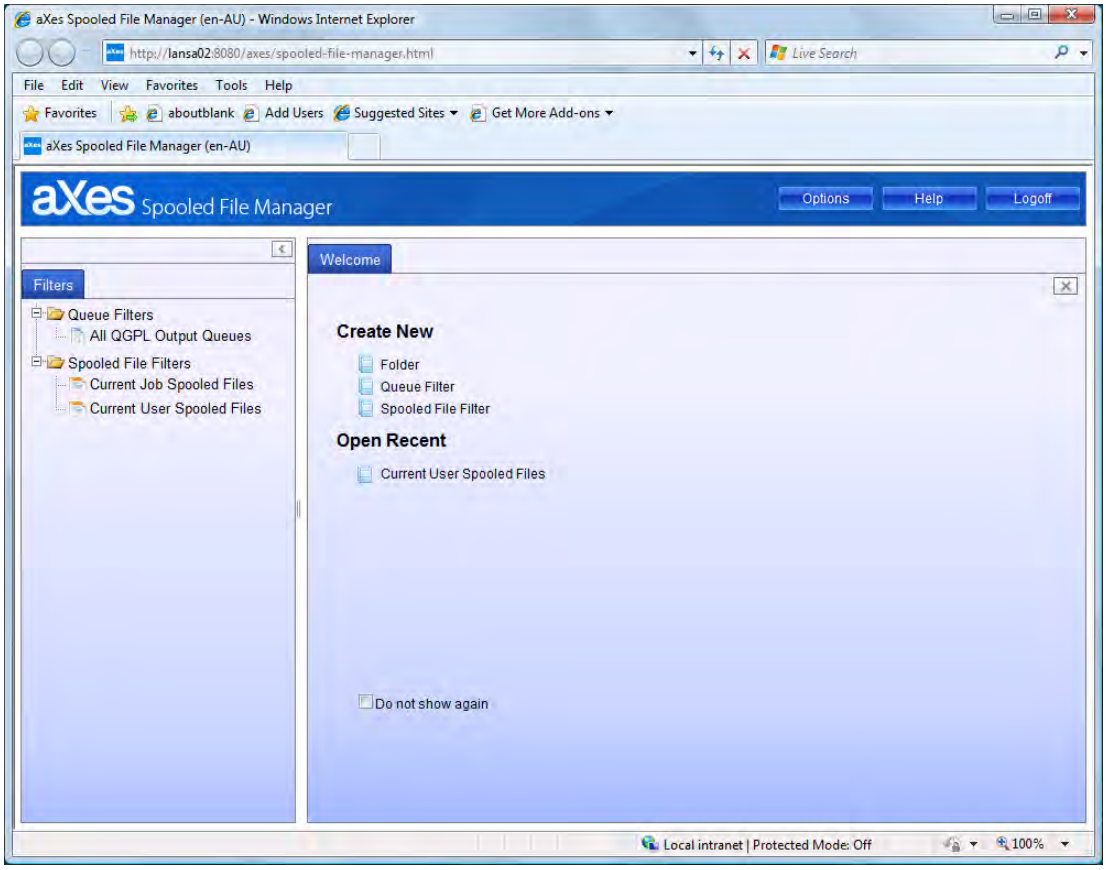


Figure 21: Welcome Page

The Welcome page consists of a tab showing a list of the recently used filters, options for creating folders and filters and links to the documentation.

Create New	Click on Folder to create a folder. Click on Queue Filter to create a search by output queue. Click on Spooled File Filter to create a search for spooled files.
Open Recent	Open Recent is the list of recently used filters Clicking on a filter in the list will open a new tab and perform the search.

Hide the Welcome page

If you prefer not to see the Welcome page each time you start WSFM, tick the box adjacent to "Do not show again". This action will turn off the Welcome page and it will not show the next time WSFM starts.

Close the Welcome page by pressing the Close icon located at the top right of the Welcome page tab.

Show the Welcome page

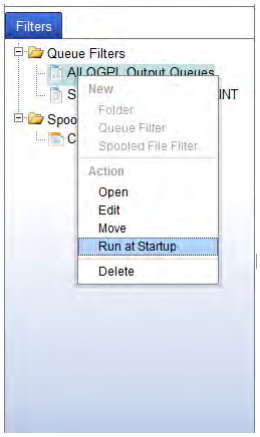
If the Welcome page is turned off and you want to see the Welcome page, turn the Welcome page on from the Options tab. Click the Options button at the top of the page and click the box adjacent to the Show Welcome Page label so that it shows a tick (☑) image.

Run a filter automatically when WSFM starts

Run a filter when WSFM starts

To run a filter immediately when WSFM starts, set the start-up action for the filter you want to run. To run a filter when WSFM starts:

1.	In the filters pane click on a filter name.
2.	From the floating menu choose Action - Run at Startup.
3.	WSFM will change the filter name on the Options tab

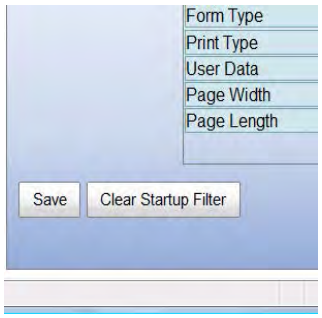


WSFM will run only one filter when it starts.

Stop a filter running when WSFM starts

To stop a filter running when WSFM starts, clear the start-up filter:

1.	Press the button labelled Options.
2.	Wait until WSFM displays the Options tab.
3.	Press the Clear Startup Filter button.
4.	Wait until WSFM asks you to confirm the clear.
5.	Answer Yes to clear the start-up filter. Answer No and WSFM will not clear the start-up filter.



You cannot change the start-up filter by editing the name of the filter on the Options tab.

Manage the columns in the results list

WSFM displays a set of columns in the search results. These columns are a subset of the spooled file properties.

You can change the columns that WSFM displays by hiding one or more of the columns. In addition, you can alter the sequence of the columns in the search results list.

The Options tab includes two lists, one labelled Show Columns and the second labelled Hide Columns. The spooled file properties under the Show Columns label will appear in the search results. The spooled file properties under the Hide Columns label will not appear in the search results.

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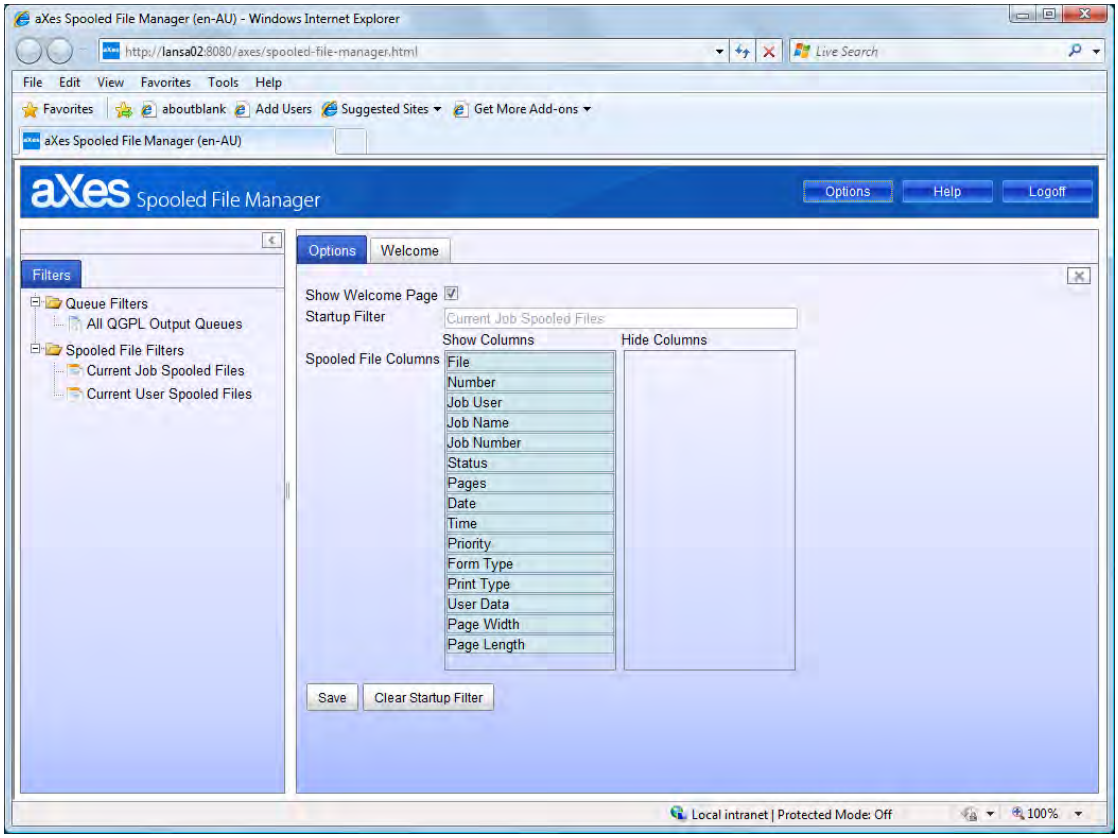

Figure 22: Manage Columns in Search Results

Figure 22 (page 48) illustrates the situation where WSFM will show all columns in the search results list. This is the default configuration and the Hide Columns list is empty.

Hide and show columns in the search results

To change the columns you wish to see in the search results list, drag spooled file property columns from Show Columns to Hide Columns or drag spooled file property columns from Hide Columns to Show columns.

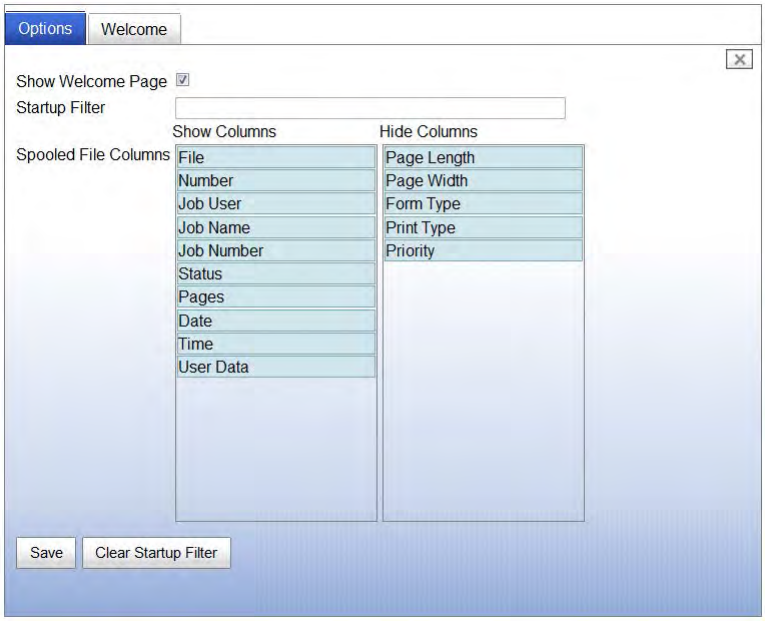

Figure 23: Show and Hide Columns Displayed in Search Results

Figure 23 (page 49) shows an example of hiding columns. The spooled file columns under Hide Columns will not appear as columns in the search results.

To hide columns:

1.	Press the button labelled Options.
2.	Wait until WSFM displays the Options tab.
3.	Click on the column in the Show Columns list that you want to hide and hold. The drag icon (four arrows) will appear.
4.	Drag the spooled file property into Hide Columns and release.

To show columns:

1.	Press the button labelled Options.
2.	Wait until WSFM displays the Options tab.
3.	Click on the column in the Hide Columns list that you want to show and hold. The drag icon (four arrows) will appear.
4.	Drag the spooled file property into Show Columns and release.

Set the order of columns in the search results

The spooled file properties in the Show Columns list display as columns in the search results. The column sequence from left-to-right is determined by the top-to-bottom position of the property in the Show Columns list. The top item in the Show Columns list will be the first column on the left in the search results list and the bottom item will be last column on the right of the search results list.

You set the order in which WSFM displays the columns in the search results by dragging the spooled file properties up or down inside the Show Columns list.

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Spooled files

Table 6 (page 50) contains questions and answers related to spooled files.

Table 6: Spooled Files Questions and Answers

Question	Answer
Can I view the content of multiple spooled files simultaneously?	Yes. WSFM opens a new window each time you view a spooled file. You can leave the windows open while you perform other searches. You need to configure your browser to open new windows. It is your responsibility to close the open windows.
Can I hold a spooled file when it is printing?	Not once the spooled file has started to print.

Display options - why and when to use

WSFM provides several options for displaying the content of a spooled file. Table 7 (page 50) explains what you see with each option and suggests why and when you might choose a particular option.

Table 7: Options for Displaying the Content of Spooled Files

Display As	What You See
HTML	WSFM presents the spooled file as one or more pages formatted for display using HTML. WSFM inserts the page navigation. The browser manages printing. Use this display format when you want to publish the spooled file content as a Web page.
PDF	WSFM converts the spooled file to a PDF. Adobe Acrobat Reader manages displaying the content and printing. Use this display format when you want to distribute the spooled file as an email attachment and/or save the PDF in a content management system.
PDF image	WSFM converts each page to an image and inserts the images into a PDF document. Adobe Acrobat Reader manages displaying the content and printing. Copying the content of the spooled file is more difficult when it is displayed as an image. Use this display format when you want to distribute the spooled file as an email attachment and/or save the PDF in a content management system.

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Display As	What You See
Text	WSFM presents the spooled file as one or more pages formatted for display using text wrapped with HTML. The text display option includes no page navigation. The browser manages printing. Use this display format when you want to copy the content of a spooled for use in office tools such as Microsoft Excel.

When WSFM creates spooled files as PDF or PDF image it inserts the following information into the PDF document properties (Table 8, page 51).

Table 8: PDF Document Properties Set by WSFM

Properties	Values Set by WSFM
Title	Spooled file name
Author	Spooled file job user
Subject	Spooled file user data
Keywords	Spooled file user data

Keyboard shortcuts when viewing spooled files

Table 9 (page 51) presents the keyboard shortcuts available when viewing spooled files as HTML or text. To use shortcuts that have one key, such as F8, press the key. For shortcuts such as CTRL+P, hold down the first key (CTRL) and press the second key (the letter P).

Table 9: Keyboard Shortcuts When Viewing Spooled Files

Shortcuts		What They Do
CTRL+A	Select all	Selects all the content of the spooled file.
CTRL+C	Copy to clipboard	Copies the selected part (or all) of a spooled file to the clipboard. You need to open an office application like Microsoft Word or Notepad and then use CTRL+V to paste the content of the spooled file into the application.
CTRL+F	Find	Opens a find dialogue so that you can search the spooled file.
CTRL+P	Print	Opens a print dialogue for you to choose a printer to print the content of the spooled file. Equivalent to the printer icon at the top of the page (HTML view).
CTRL+S	Save	Opens a save as dialogue so that you can save the spooled file to a location and file name of your choice. Equivalent to the disk icon at the top of the page (HTML view). Not available as a keyboard shortcut in Internet Explorer.

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Shortcuts		What They Do
F8	Hide and show	This shortcut acts as a switch to hide and show the page navigation when viewing spooled files as HTML. Not available as a keyboard shortcut when viewing spooled files as text.

Different shortcuts apply when viewing spooled files as PDF or PDF image. Consult the documentation supplied by Adobe for more information.

Formatting printed spooled files

WSFM can apply formatting when printing the content of spooled files. Table 10 (page 52) presents the list of available formatting controls.

Table 10: Format Controls for Printing Spooled File Content

Properties	Descriptions
Font Leading	Defines the white space between the lines expressed in points Example: 15
Font Name	Font or font family to use for printing the spooled file
Font Size	Font size in points
Host Encoding	Code page identification
Margins	Margin size in points expressed as: left, right, top, bottom Example: 20,20,30,25
Orientation	Landscape or portrait
Page Size	Page dimensions definition Example: A4
Pages	Pages to display or print expressed as: start page-end page Examples: 1, or 1-5, or 4,7,12 or 1,4,6-10
Image scaling	Defines how much to increase or decrease the page size expressed as a percentage. Example: 30% Applies to: PDF image only

The format control properties are members of the spooled file properties population.

Properties and IBM spooled file attributes

WSFM properties include a subset of the IBM spooled file properties. Table 11 (page 52) presents a list of the WSFM properties you may change, together with the equivalent IBM spooled file attribute names.

Table 11: Spooled File Properties and IBM Spooled File Attributes

WSFM Property	Corresponding IBM Spooled File Attribute
Align Page	Align Page
Copies	Copies

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WSFM Property	Corresponding IBM Spooled File Attribute
Create Date	Creation Date
Create Time	Creation Time
Ending Page	Page range to print - Ending Page
File Name	File
File Number	File Number
File Separators	File Separators
Form Definition	Form Definition and Form Definition Library
Form Feed	Form Feed
Form Type	Form Type
Job Name	Job
Job Number	Job Number
Job User	Job User
Page Count	Total Pages
Page Length	Page Size Length
Page Width	Page Size Width
Pages Per Side	Pages Per Side
Print Both Sides	Print on Both Sides
Print Fidelity	Print Fidelity
Print Quality	Print Quality
Print Sequence	Print Sequence
Priority	Output Priority
Restart Printing	Restart Printing
Save	Save File
Source Drawer	Source Drawer
Starting Page	Page range to print - Starting Page
Status	Spooled File Status
User Data	User Defined Data

You can see the properties for a spooled file by choosing the Properties option from the menu available when working with search results.

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Fonts

Choosing fonts

Font and host encoding (code page) determine the font WSFM uses when displaying spooled files. You can choose the font and host encoding or allow WSFM to make the choice. You set values for the properties Font Name and Host Encoding when you wish to choose the way for WSFM to display spooled files.

The default settings are Font Name set as AUTO and Host Encoding set as HPT. In this case, WSFM uses the IBM Host Print Transform and the system host encoding to determine the font. In most cases, the default mode of auto selection of font and HPT for host encoding will provide the best results.

WSFM includes a set of internal fonts. Administrators can obtain and install additional fonts.

HPT as host encoding

WSFM will determine the font automatically when you choose HPT as the Host Encoding and set Font Name as AUTO. Using HPT and choosing a specific font forces WSFM to use this font. You cannot choose HPT with another host encoding.

CSF as host encoding

WSFM will determine the font automatically when you choose CSF as the Host Encoding and set Font Name as AUTO. Using CSF and choosing a specific font forces WSFM to use this font.

Using CSF allows WSFM to determine an encoding automatically.

When you choose a specific encoding (other than CSF and HPT), WSFM uses CSF and your choice determines the encoding (WSFM no longer determines it automatically).

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Section 6 - Using Classic Spooled File Server

This section provides information about using the aXes Classic Spooled File Server to view and convert spooled files in the browser. Please note that Classic Spooled File Server has been superseded by Web Spooled File Manager. It is recommended to use WSFM instead of the aXes Classic Spooled File Server.

Starting the Classic Spool File Session

To start a spool file session, specify the system name and port, if other than 80

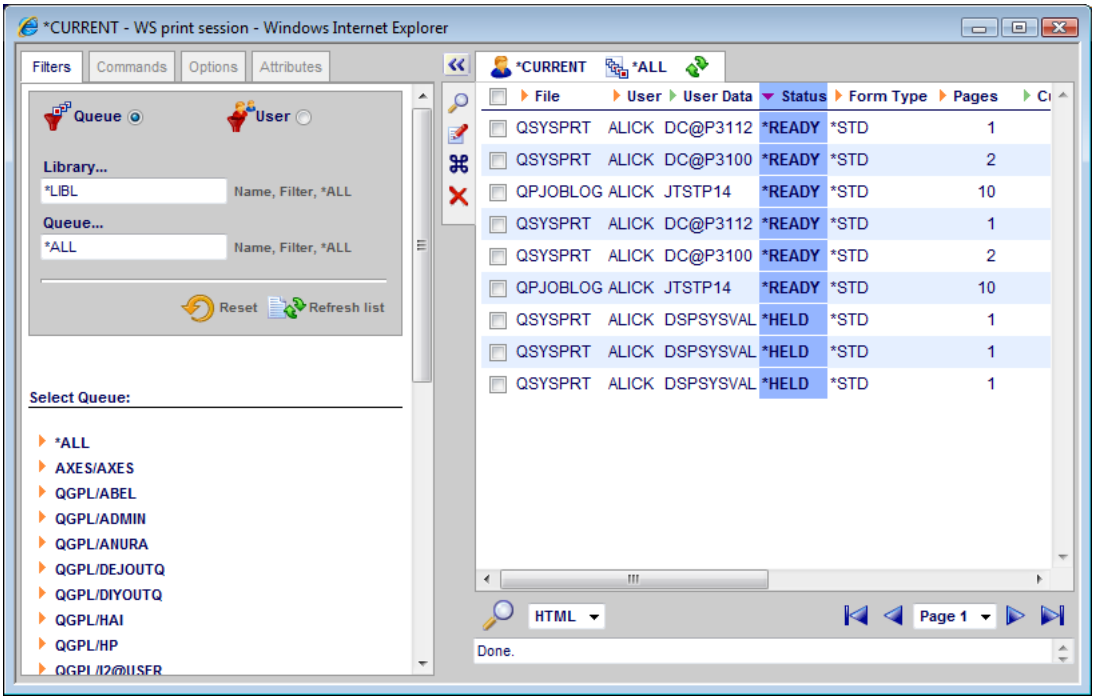
Specify a URL in the form:

http://system:port/axesws

Where **system** is the name of your IBM i server and **port** is the port on which the aXes Application Server is listening.

The port number is required only if it is not 80.

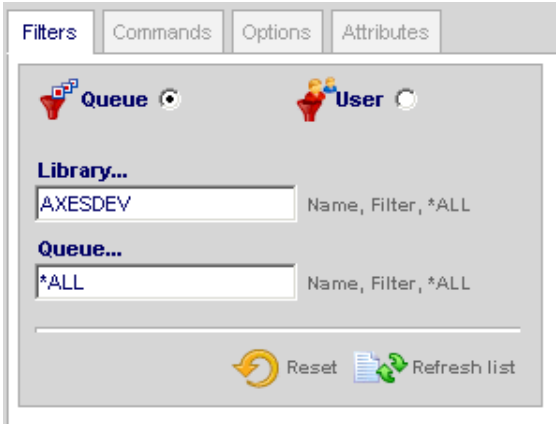
Enter your IBM i user profile name and password. A successful logon will cause a list of spooled files to be displayed. The default view displays only the list of available spooled files but you can click the icon in the top-left corner to make the Action Tabs panel appear.



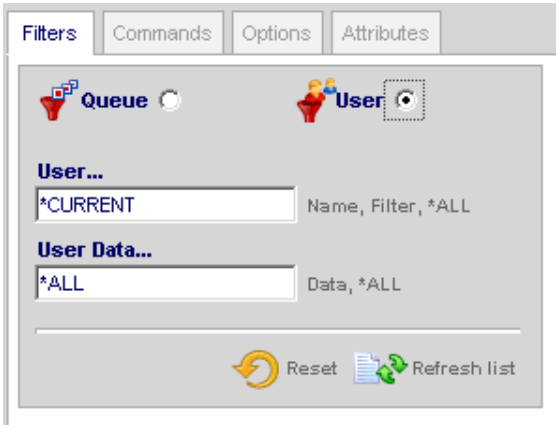
The Action Tabs panel lets you subset list spooled files by output queue or user, filter the list of output queues or users, run spooled file commands, set preferences, and change spooled file attributes. The current subset values are shown above the list of spooled files.

Filtering Lists

The Filters tab gives you control over the items displayed in the lists of output queues, users, and spooled files. Regardless of the values you specify you will only see items to which you are authorised.



Type the values by which to filter the output queue list and click the Refresh list icon.



Type the values by which to filter the user list and click the Refresh list icon.

Commands, Options, and Attributes Tabs

The Commands tab lets you run and save spooled file commands.

The Options Tab lets you set personal preferences for the columns shown in the spooled file list, the default output type, the number of files displayed in the list, the default font and orientation for PDF output, and the default output queue and library.

The Attributes tab lets you change the attributes for a selected spooled file if you have sufficient authority to the spooled file.

Converting Files

You can select one or more spooled files from the list by clicking in the checkbox then choose the output type and click the view icon.

The list of available output types will change according to the types of the selected spooled files. For example, PDF is the only output type allowed for AFPDS, IPDS, and Final Form Text spooled files. If you select multiple spooled files at the same time the available output types will be subset to only those types allowed for all the selected spooled files.

A new window will open for each selection containing the spooled file data. The following image shows an example of TEXT output.

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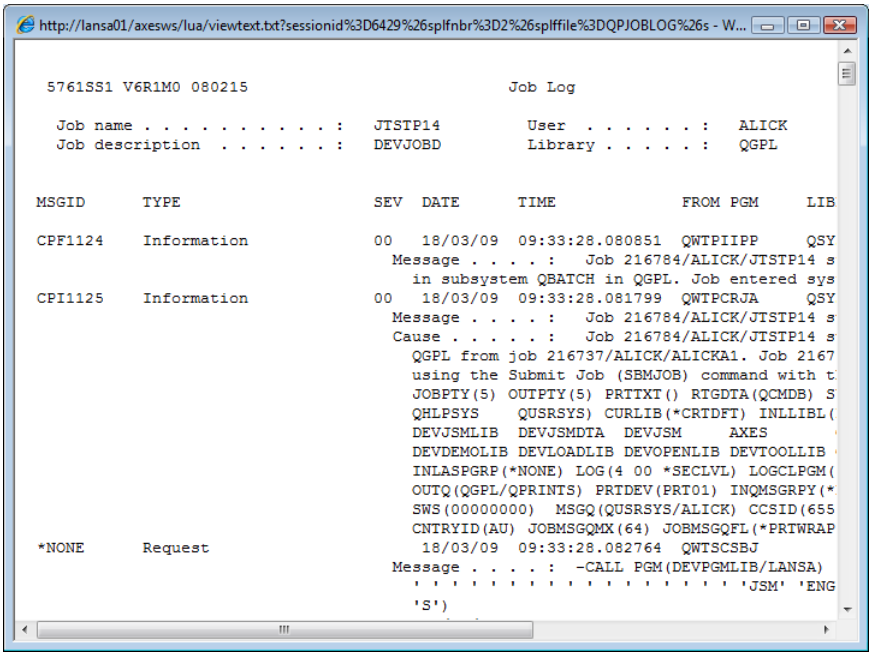


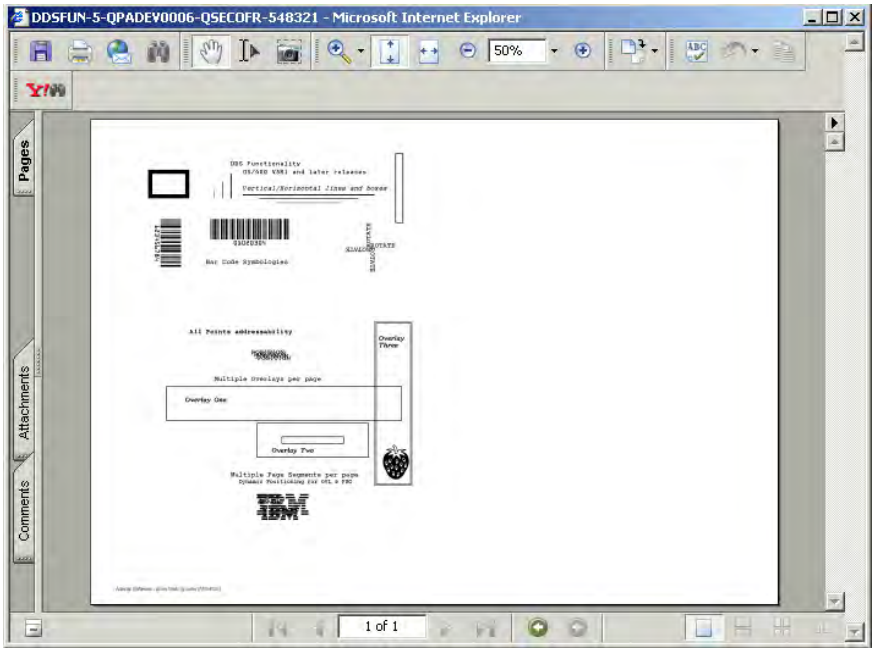
If you select PDF as the output type you can also choose the font, orientation, and specify whether the PDF is text-based or image-based. A text-based PDF is searchable but an image-based one is not. AFPDS, IPDS, and Final Form Text spooled files must be image-based PDF documents.

If you choose an inappropriate font (such as Courier for a DBCS spooled file) your choice will be ignored and an appropriate font (such as HeiseiMin-W3) will be used instead.

You cannot change the font for image-based PDFs.

If you select an SCS spooled file for text-based PDF output and the text is not as expected it may be because the spooled file language is not supported. In this case try creating an image-based PDF.

The following image shows an example of AFPDS converted to an image-based PDF.



Appendices

Glossary

Table 12 presents definitions for abbreviations and terms used in this guide.

Table 12: Glossary of Abbreviations and Terms

Abbreviations and Terms	Definitions and Explanations
CFS	Copy Stream File
CSS	Cascading Style Sheet
DOM	Document Object Model
Filter	WSFM uses the word "filter" to describe a collection of search criteria.
HPT	Host Print Transform
HTML	Hypertext Markup Language
Output queues	Output queues are containers for spooled files. A spooled file resides in an output queue until a person or program deletes it. An output queue may contain zero or more spooled files.
Reports	A report is the visual representation of the spooled file content.
SCS	SNA Character String
Search criteria	The search criteria determine what WSFM looks for. Suppose you want a list of output queues in the QGPL library, the search criteria includes a specific library and any output queue. You express the search criteria as library QGPL and output queues *ALL.
Spooled files	Programs create reports and save the reports as spooled files. Spooled files are the objects managed by Web Spooled File Manager. "Spooling is a system function that saves data in a database file for later processing or printing. This data, which is saved and eventually printed, is called a spooled file (or printer output file). When spooling is used, spooled files are created from the application program, from a system program, or by pressing the Print key. These files are put in places called output queues." [1]
WSFM	Web Spooled File Manager

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Assumed and prerequisite knowledge

Table 13 defines the prerequisite knowledge needed to use WSFM.

Table 13: Assumed and Prerequisite Knowledge

Subject Matter	Explanations
Creating reports	The guide assumes that you understand how to create reports and the concepts of spooling the reports for immediate or deferred printing.
Libraries	The guide assumes that you understand the concepts behind libraries for IBM i servers.
Output queues	The guide assumes that you understand the concepts behind output queues for IBM i servers.
Spooled files	The guide assumes that you understand the concepts behind spooled files for IBM i servers.

This guide provides no tutorial for creating reports, printing or managing output queues and spooled files.

Browser behaviour differences

Every browser is different. Browser manufacturers implement components such as JavaScript, DOM, HTML, CSS, event handling and network connectivity in different ways. Therefore, WSFM will vary in its appearance and behaviour depending on the browser you use. Examples of these differences are as follows.

- Slight variations in the way the pages look.
- Differences in behaviour.
  For example, some browsers stop running animated GIF files after a short period.
- Network activity will vary.
  Some browsers will wait longer for responses.

Browser behaviour can change from one version to the next. Each browser is on a different enhancement timeline. Some vendors implement new features and bug fixes quickly.

Performance differences will be more noticeable when you run spooled file filters or output queue filters that take a long time to finish.

Workstation requirements

This section describes prerequisites and system requirements for running WSFM on your computer or mobile device.

Hardware

Devices with a faster processor and more memory will provide better performance.

WSFM requires no disk space other than the cache used by the browser.

Software

To use WSFM you need one of the supported browsers and apart from the operating system no other software is necessary.

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Connectivity

To use WSFM you need a TCP/IP connection to an IBM i server from an internal network or the Internet.

IBM printing reference

Host print transform

Host print transform (HPT) is an OS/400 function that converts an SNA character string (SCS) or advanced function print (AFP) data streams into an ASCII data stream. The conversion takes place on the IBM i server and thereby provides a consistent ASCII data stream to any devices or emulators.

WSFM supports HPT for retrieving the content of spooled files from IBM i servers.

Stream files

"A stream file is a randomly accessible sequence of bytes, with no further structure imposed by the system. The integrated file system provides support for storing and operating on information in the form of stream files. Documents that are stored in your server's folders are stream files. Other examples of stream files are PC files and the files in UNIX® systems. An integrated file system stream file is a system object that has an object type of *STMF." [2]

WSFM supports stream files (CSF) for retrieving the content of spooled files from IBM i servers.

References

Table 14 (page 60) defines documents and information sources referenced in this guide.

Table 14: Referenced Documents and Information Sources

References
[1] "System I – Files and file systems – Spooled files", Version 6 Release 1, IBM i5/OS, product number 5761–SS1
[2] IBM i Information Center, Version 5 Release 3, URL is: http://publib.boulder.ibm.com/infocenter/iseries/v5r3/index.jsp?topic=%2Fifs%2Frzaaxstmfile.htm

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