

Chapter 1

What is SAVOUTQ?

SAVOUTQ – The Save Output Queue is a facility designed to save and store spooled file data of an output queue. It also has the facility to reprint or redisplay saved data. Some of the information stored for the spooled files are:

- The job name that created the file
- The output queue where the spooled file was created
- Form type used
- Page size, such as lines per inch, character per inch and page breaks
- The date and time the spooled file was created
- The user that created the spooled file
- Total number of pages and copies

Basic Features and Capabilities

You can take advantage of the SAVOUTQ's features to control how spooled files are saved and who can access them in the system.

Using SAVOUTQ, you can:

- Reprint the saved data to your personal output queue or any output queues you are authorized to
- Redisplay the saved data
- Restrict certain users from accessing your data for security reasons
- Control when the spooled file on the output queue is saved. You can pre-define certain spooled files to be saved after being in the output queue for a certain number of days
- Control which spooled file is saved based on the current spooled status. You can pre-define certain spooled files to be saved after it has been printed in the printer. Note: The spooled file must be defined as SAVE(*YES)
- Quick search of saved spooled files using the Subset features. Users can select the list of spooled files to be displayed by selecting a user name, job name, output queue name, date the spooled file was created, or the spooled file name. Combinations of these parameters are available for quick search
- Cut down the number of jobs in the system by saving the spooled file and deleting the spooled file after save
- Automatic cleanup of the saved spooled file. You can predefine the number of days to store the saved spooled file before it is purged. This cuts down the sized of the storage used by the SAVOUTQ.
- The SAVOUTQ Utility is 100% Year 2000 compatible.

SAVOUTQ Security

The SAVOUTQ Utility takes advantage of the OS/400 object security to restrict certain users from displaying or printing the saved spooled file. In order to prevent users from displaying the saved spooled files from an output queue, you would grant or change the output queue authority from the *output queue object* itself. Once the object authority is secured from the user, SAVOUTQ Utility takes this security into consideration when displaying or printing the saved spooled file.

Chapter 2

Getting Started

This chapter shows you how to setup SAVOUTQ on each output queue. In the examples that follow, you will first select the output queues you want to maintain. You will then use the SAVOUTQ Control function to setup how spooled files on the output queue are saved, when spooled files are saved and when spooled files are removed from saved storage.

SAVOUTQ Control

To begin, enter the command (Note: The library SAVOUTQ must be in the library list):

GO SAVOUTQ

Press Enter to display the main menu. This menu provides you, the administrator, access to the SAVOUTQ Control function. Select option 1 from the menu and press Enter.

QSECOFR System: PGMR			Work with SAVOUTQ Control			3/02/98 10:31:45	
Type options, press Enter.							
1=SAVOUTQ		2=Edit		4=Delete		5=Work with Output Queue	
Opt	Outq Name	Outq Library	Default Device	--- *FILE File	Default --- Library	#Days in Outq SavOq	Clear After
—	APOUTQ1	QGPL	*FILE	@APOUTQ1	@SAVOUTQ	7 45	*NO
—	AROUTQ1	QGPL	*FILE	@AROUTQ1	@SAVOUTQ	7 45	*NO
—	BGOLDSTE	QGPL	*FILE	@BGOLDSTE	@SAVOUTQ	7 30	*NO
—	DVOUTQ	QGPL	*FILE	@DVOUTQ	@SAVOUTQ	7 15	*NO
—	EBBFINAL	EBBDATA	*FILE	@EBBFINAL	@SAVOUTQ	7 90	*NO
—	GAOUTQ1	QGPL	*FILE	@GAOUTQ1	@SAVOUTQ	7 90	*NO
—	GAOUTQ2	QGPL	*FILE	@GAOUTQ2	@SAVOUTQ	7 90	*NO
—	GAOUTQ3	QGPL	*FILE	@GAOUTQ3	@SAVOUTQ	7 90	*NO
—	GAOUTQ4	QGPL	*FILE	@GAOUTQ4	@SAVOUTQ	7 90	*NO
—	ICOUTQ2	QGPL	*FILE	@ICOUTQ2	@SAVOUTQ	7 90	*NO
—	LNOUTQDT	QGPL	*FILE	@LNOUTQDT	@SAVOUTQ	7 30	*NO
—	LNOUTQM	QGPL	*FILE	@LNOUTQM	@SAVOUTQ	7 90	*NO
							More...
F3=Exit		F5=Refresh		F6=Add		F7=Select	
				F10=View *FLR		F11=View *SAVF	

Figure 2-1 – SAVOUTQ Control Screen

The Work with SAVOUTQ Control panel shows all (or the specified portion) of the output queue the SAVOUTQ will monitor for. This panel allows you to find the output queue to save on the system using the SAVOUTQ Utility.

You can type an option number next to one or more output queues. When you press the Enter key, the function associated with the selected option is performed for each of the selected output queues.

You can enter the name or partial name of the output queue underneath the heading to position to a desired output queue in the list. Use this field for quick repositioning of the list, not creating a subset of the list.

Field	Action or Description
Opt (Option)	<p>Type the option number of the function you want to be performed. If you place numbers in the entry fields of several output queues before the Enter key is pressed, the specified functions are performed on the output queues in the order in which the output queues are displayed.</p> <p>The valid options are:</p> <p>1 SAVOUTQ Use this option to immediately save all the spooled files in the output queue. When you use this option, you cause the Save Output Queue (SAVOUTQ) command to be processed.</p> <p>2 Edit Use this option to change the control attributes for saving the output queue. The current attributes for the output queue are shown when you press the Enter key.</p> <p>4 Delete Use this option to delete the control attributes of the output queue. When you choose this option and press the Enter key, the Confirm Delete Window display is shown. The window allows you to confirm the deletion before the control record is deleted. Once deleted, the output queue will no longer be monitored for save.</p> <p>5 Work with Output Queue Use this option to change the control attributes for saving the output queue. The current attributes for the output queue are shown when you press the Enter key.</p> <p>Note: Only authorized output queue can be processed by this option.</p>
Output Queue and Library (Outq Name and Library)	The name and library of the output queue to save.
Default Device	<p>The name of the device type to use when saving the spooled files for the output queue.</p> <p>The valid device types are:</p> <p>*FILE A database file is used as the default location to store all spooled file data</p> <p>*SAVF A save file is used as the default location to store all spooled file data</p> <p>*FLR A folder is used as the default location to store all spooled file data</p>

	Device-name The name of the device is used as the default location to store all spooled file data. The device name must be known on the system by a device description.
Database File and Library	This is the name and library of the database file that will be used by the SAVOUTQ utility to store the spooled data when *FILE default device is selected.
Save File and Library	This is the name and library of the save file that will be used by the SAVOUTQ utility to store the spooled data when *SAVF default device is selected.
Folder	This is the name of the folder that will be used by the SAVOUTQ utility to store the spooled data when *FLR default device is selected.
Number of Days in the Output Queue (#Days in Outq)	The number of days the spooled file is to remain in the output queue before it is saved by the SAVOUTQ utility.
Number of Days in the Saved Location (#Days in SavOq)	The number of days the spooled file is to remain in the saved location before it is cleared by the SAVOUTQ utility.
Clear After	This parameter determines whether the spooled file is deleted after it has been saved.

Function Keys

F1=Help	Provides more information about using the display.
F3=Exit	Ends the current task and returns the display from which the task was started.
F5=Refresh	Removes any changes you made and shows the original values.
F6=Add	Adds new output queue to be monitored by SAVOUTQ.
F7=Select	Shows a list of all available output queues in the system. On this display, you can select 1 or more output queue to be added to the SAVOUTQ Utility.
F10=View Previous	Lets you toggle the list to display the previous information
F11=View Next	Lets you toggle the list to display the next information
Page Up	Moves you backward through the information on the list
Page Down	Moves you forward through the information on the list
Print Screen	Prints the information currently shown on your screen

Adding a new Output Queue

To add a new output queue, press Function key 6.

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QSECOFR                                Work with SAVOUTQ Control                                3/02/98
System: PGMR                                                                    10:31:45

Type options, press Enter.

.....          Add New Output Queue Control          .....
:                                                         :
O :   Output queue . . . . . _____                : r
:     Library. . . . . _____                    : r
:   Clear after save . . . . . _ (Y/N)              : 
:   Days to keep SPLF online . _0_                  : 
:   Days to save SPLF. . . . . _0_                  : 
:   Default *Device. . . . . _____ (Name, *FILE, *SAVF, *FLR) : 
:                                     *FILE            *SAVF      *FLR    : 
:                                     _____        _____    : 
:                               Name                      : 
:                               Library                   : 
:                                                         : 
: Page Down   F3=Exit   F12=Cancel                     More... : 
:                                                         : 
:                                                         : 
:.....
LNOUTQM       QGPL           *FILE                          7      90      *NO
                                                         More...
F3=Exit   F5=Refresh   F6=Add   F7>Select   F10=View *SAVF   F11=View *FILE
```

Use this window to add new output queue control. The output queue and library are located on top of the window. All other control parameters for the output queue appear underneath. The parameters allows you control the number of days the spooled file is to remain in the output queue before it is saved or the number of days to leave the data in the saved location before it is cleared. You can also specify where the saved spooled data will be stored – either in a database file (*FILE), a save file (*SAVF), a folder (*FLR) or by a tape device.

Field	Action or Description
Output Queue and Library	The name and library of the output queue to monitor
Clear after save	<p>This parameter determines whether the spooled file is deleted after it has been saved.</p> <p>The valid parameters are:</p> <p>Y</p> <p>Deletes the spooled file after it has been saved by the SAVOUTQ utility.</p> <p>N</p> <p>Leaves the spooled file in the output queue after it has been saved by the SAVOUTQ Utility.</p>
Days to keep Spooled File online	The number of days the spooled file is to remain in the output queue before it is saved by the SAVOUTQ utility.
Days to save Spooled File data	The number of days the spooled file is to remain in the saved location before it is cleared by the SAVOUTQ utility.
Default Device	<p>The name of the device type to use when saving the spooled files for the output queue.</p> <p>The valid device types are:</p> <p>*FILE</p> <p>A database file is used as the default location to store all spooled file data</p> <p>*SAVF</p>

	<p>A save file is used as the default location to store all spooled file data</p> <p>*FLR A folder is used as the default location to store all spooled file data</p> <p>Device-name The name of the device is used as the default location to store all spooled file data. The device name must be known on the system by a device description.</p>
Database File and Library (*FILE)	This is the name and library of the database file that will be used by the SAVOUTQ utility to store the spooled data when *FILE default device is selected.
Save File and Library (*SAVF)	This is the name and library of the save file that will be used by the SAVOUTQ utility to store the spooled data when *SAVF default device is selected.
Folder (*FLR)	This is the name of the folder that will be used by the SAVOUTQ utility to store the spooled data when *FLR default device is selected.

Function Keys

F1=Help	Provides more information about using the display.
F3=Exit	Ends the current task and returns the display from which the task was started.
F5=Refresh	Removes any changes you made and shows the original values.
F12=Cancel	Returns to the output queue list display.
Page Down	Displays the Output Queue Status Information.
Print Screen	Prints the information currently shown on your screen

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QSECOFR                               Work with SAVOUTQ Control          3/02/98
System: PMGR                           14:36:05

Type options, press Enter.

.....      Add New Output Queue Status      .....
:
:   Output queue . . . . . : QPRINT                      : r
O :   Library. . . . . : QGPL                            : r
:
:   Type changes to current spool status to save, press Enter.
:
: -----Spool Status to Save-----
: CLO           DFR     SND    HLD    MSGW   PND    PRT    RDY    SAV    WTR
:
: -             -       -      -      -      -      -      -      -
:
:                                                    Bottom
: Page Up      F3=Exit    F12=Cancel
:
: .....,.....
LNOUTQM      QGPL        *FILE         @LNOUTQM    @SAVOUTQ              7    90    *NO
                                           More...
F3=Exit      F5=Refresh    F6=Add      F7>Select    F10=View *FLR    F11=View *SAVE

```

Use this window to add new output queue status. The window panel shows all the spooled file status to monitor for by the SAVOUTQ Utility. Only status selected in this window will be used to save the spooled file when the Monitor Output Queue (MONOUTQ) job is submitted.

Field	Action or Description
Output Queue and Library	The name and library of the output queue to monitor. These entries are not input capable.
Spooled Status to Save	<p>The status of the spooled file. Enter "X" below the desired status to save the spooled file. The following list of values is used to describe the status of the file:</p> <p>*CLOSED (CLO) The spooled file has been completely processed by a program, but SCHEDULE(*JOBEND) was not specified. The job that produced the spooled file has not finished.</p> <p>*DEFERRED (DFR) The spooled file has been deferred from printing.</p> <p>*SENDING (SND) The spooled file is being sent or has been sent to a remote system.</p> <p>*HELD (HLD) The spooled file has been held.</p> <p>*MESSAGE (MSG) The spooled file has a message that needs a reply or needs an action to be taken.</p> <p>*PENDING(PND)</p>

	<p>The spooled file is pending (waiting) to be printed.</p> <p>*PRINTING (PRT) The spooled file has been completely sent to the printer, but the print complete status has not been sent back.</p> <p>*READY (RDY) The spooled file is available to be written to an output device by a printer.</p> <p>*SAVED (SAV) The spooled file has been written and then saved. This file remains saved until it is released.</p> <p>*WRITING (WTR) The printer is currently producing the spooled file.</p>
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Function Keys

F1=Help	Provides more information about using the display.
F3=Exit	Ends the current task and returns the display from which the task was started.
F5=Refresh	Removes any changes you made and shows the original values.
F12=Cancel	Returns to the output queue list display.
Page Up	Displays the Output Queue Control Information.
Print Screen	Prints the information currently shown on your screen

Changing an Output Queue Control

Type option **2** in the Option column for the output queue.

Use the Edit option to:

- Change the control parameters of the output queue
- Change the spool status to save

After you finish making your changes, press Enter to save the information.

Deleting an Output Queue Control

Type option **4** in the Option column for the output queue.

Use the delete option to:

- Remove the output queue to monitor
- Delete the output queue's control information
- Delete the output queue's status information

Once you are in the Delete Output Queue Control / Status Window, press Enter to delete the output queue information. A message appears at the bottom of the window to confirm your deletion of the output queue. Press Enter again to delete the output queue information or press Function Key 12 to cancel the delete.

NOTE: All spools previously saved within the output queue remains. When the output queue is entered in the Output Queue Control again, the SAVOUTQ will remember where it last left off.

Saving spooled files within the output queue

Type option **1** in the Option column for the output queue. When you use this option, you cause the Save Output Queue (SAVOUTQ) command to be processed.

QSECOFR			Work with SAVOUTQ Control				3/02/98	
System: PGMR							10:31:45	
Type options, press Enter.								
1=SAVOUTQ			2=Edit		4=Delete		5=Work with Output Queue	
Opt	Outq Name	Outq Library	Default Device	--- *FILE File	Default --- Library	#Days in Outq SavOq		Clear After
1	APOUTQ1	QGPL	*FILE	@APOUTQ1	@SAVOUTQ	7	45	*NO
—	AROUTQ1	QGPL	*FILE	@AROUTQ1	@SAVOUTQ	7	45	*NO
—	BGOLDSTE	QGPL	*FILE	@BGOLDSTE	@SAVOUTQ	7	30	*NO
—	DVOUTQ	QGPL	*FILE	@DVOUTQ	@SAVOUTQ	7	15	*NO
—	EBBFINAL	EBBDATA	*FILE	@EBBFINAL	@SAVOUTQ	7	90	*NO
—	GAOUTQ1	QGPL	*FILE	@GAOUTQ1	@SAVOUTQ	7	90	*NO
—	GAOUTQ2	QGPL	*FILE	@GAOUTQ2	@SAVOUTQ	7	90	*NO
—	GAOUTQ3	QGPL	*FILE	@GAOUTQ3	@SAVOUTQ	7	90	*NO
—	GAOUTQ4	QGPL	*FILE	@GAOUTQ4	@SAVOUTQ	7	90	*NO
—	ICOUTQ2	QGPL	*FILE	@ICOUTQ2	@SAVOUTQ	7	90	*NO
—	LNOUTQDT	QGPL	*FILE	@LNOUTQDT	@SAVOUTQ	7	30	*NO
—	LNOUTQM	QGPL	*FILE	@LNOUTQM	@SAVOUTQ	7	90	*NO
More...								
F3=Exit			F5=Refresh		F6=Add		F7=Select	
			F10=View *FLR		F11=View *SAVF			

Figure 2-4 – SAVOUTQ Control Screen

Save Output Queue (SAVOUTQ)		
Type choices, press Enter.		
Output queue	> APOUTQ1	Name, *ALL
Library	> QGPL	Name, *LIBL
Device	> *FILE	Name, *SAVF, *FILE, *FLR
Clear after save	> *NO	Name, *DFT, *YES, *NO
File	> @APOUTQ1	Name, *OUTQ
Library	> @SAVOUTQ	Name, *LIBL
Bottom		
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display		
F24=More keys		

Figure 2-5 – Save Output Queue (SAVOUTQ) command

The Save Output Queue (SAVOUTQ) command saves spooled files from the specified output queue to either a user-defined database file, save file, folder, or an external device. The Save Output Queue (SAVOUTQ) command saves all spooled files on the specified queue except files that are in open (OPN) state. Spooled files that are currently being produced by programs are not saved from the queue.

Command Parameter	Action or Description
Output Queue and Library (OUTQ)	The name and library of the output queue the save operation uses.
Device (DEV)	Specifies the name of the device used for the save operation. The device name must already be known on the system by a device description.

	<p>The possible device values are:</p> <p>*SAVF The save operation is done using the save file specified by the Save file prompt (SAVF parameter).</p> <p>*FILE The save operation is done using the database file specified by the File prompt (FILE parameter).</p> <p>*FLR The save operation is done using the folder specified by the Folder prompt (FLR parameter).</p> <p>Tape-device-name Specify the name of the tape device used for the save operation.</p>
Clear (CLEAR)	<p>Specifies whether the spooled file, after the save operation, are automatically removed from the output queue.</p> <p>The possible clear values are:</p> <p>*DFT The clear parameter specified on the Output Queue Control for this queue will be used to determine whether spooled files are cleared or not.</p> <p>*YES Deletes the spooled file after it has been saved.</p> <p>*NO Leaves the spooled file in the output queue after it has been saved.</p>
Database file (FILE)	<p>Specifies the name of the database file (in library-name/database-file-name format) that is used to contain the saved spooled data.</p> <p>The possible file values are:</p> <p>*OUTQ The name of the save file is the same as the output queue name.</p> <p>Database-file-name Specify the name of the database file used for the save operation.</p> <p>The possible library values are:</p> <p>*LIBL All libraries in the job's library list are searched until the first match is found.</p> <p>Library-name Specify the name of the library where the database</p>

	file is located
Save file (SAVF)	<p>Specifies the name of the save file (in library-name/save-file-name format) that is used to contain the saved spooled data.</p> <p>The possible save file values are:</p> <p>*OUTQ The name of the save file is the same as the output queue name.</p> <p>Database-file-name Specify the name of the database file used for the save operation.</p> <p>The possible library values are:</p> <p>*LIBL All libraries in the job's library list are searched until the first match is found.</p> <p>Library-name Specify the name of the library where the save file is located</p>
Folder (FLR)	Specifies the name of the folder that is used to contain the saved spooled data.
End of tape option (ENDOPT)	<p>Specifies, when tape is used, what positioning operation is automatically done on the tape volume after the save operation ends. If more than one volume is included, this parameter applies only to the last volume used; all other volumes are rewound and unloaded when the end of the tape is reached.</p> <p>The possible end of tape option values are:</p> <p>*REWIND The tape is automatically rewound, but not unloaded, after the operation has ended.</p> <p>*LEAVE The tape does not rewind or unload after the operation ends. It remains at the current position on the tape drive.</p> <p>*REWIND The tape is automatically rewound and unloaded after the operation ends.</p>

The SAVOUTQ command will immediately save all the spooled file data in the output queue to the desired device location. When this command is executed, the output queue control parameters are ignored and all spooled files, regardless of the status (other than Open status), are saved.

Monitor Output Queue

The SAVOUTQ Utility has an automated facility to save spool files and remove stored spooled files based on the parameters specified in the SAVOUTQ Control. In order to activate this

