

LXI CORP.

MMS[®] /spl – Spooled File Management

for the iSeries

Software : MMS/*spl*

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Spooled File Management

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Chapter 1

Introduction

Spooled files exist in abundance on every system. There are job logs, print screens, compiler listings, printouts from commands, history log printouts, message queue listings and mountains of spooled files created by user applications. Some of these reports are printed and then deleted, others are printed and saved, still others are sent to output queues on other systems to accumulate there. MMS Spooled File Management (MMS/*spl*) is a subset of the LXI Media Management System (MMS). This module provides a means of managing spooled files based on user-defined selection criteria. Spooled files meeting the criteria can be saved and optionally removed from disk. When the saved reports are required, they can be easily restored from tape to disk for viewing or printing. Most of the spooled files' attributes remain intact.

MMS Spooled File Management provides a method of saving disk space by removing unused spooled files and providing the capability to restore them when needed.

Why You Should Use MMS/*spl*

Many reasons exist for choosing MMS/*spl* for your spooled file management solution, including its wide array of features and functions, ease of implementation, power, flexibility, and ease of use. For those of you familiar with other LXI products, the choice of MMS Spooled File Management will be easy. MMS/*spl* can increase productivity and help increase disk space. The flexibility provided by MMS/*spl* allows you to customize and change your spooled file management strategy as required without having to modify existing code. The strategy that you create can be reviewed at any time to help ensure that all your requirements are met.

Ease of implementation is key to using any software. The MMS Spooled File Management uses existing IBM facilities and requires no additional modifications to make it function. MMS/*spl* is active and ready to use after the installation procedure has completed.

Flexibility When You Need It

Changes are the forte of any data center and MMS/*spl* is designed to adapt easily and quickly. The spooled file management strategy that worked so well yesterday can be updated to meet today's challenges within a few minutes. MMS/*spl* commands provide solutions that can be implemented and maintained in one comprehensive software package.

How This Book Is Organized

This manual is organized to help you set up and use the software as quickly and efficiently as possible. If you are familiar with earlier versions of this product, you should scan the table of contents for new features. The MMS/*spl* manual is organized as follows:

- **System Overview**
Chapters 2 through 4 outline the MMS/*spl* features and functions. These chapters also provide a guide to the menu system used by MMS/*spl*. Chapter 4 contains the Quick Start exercises, which illustrate the simplicity of use.
- **Description of Major Functions**
Chapter 5 details all MMS/*spl* functions including the various copy, save, restore and delete functions available.
- **Reports**
Chapter 6 shows the reports available in MMS/*spl*. These reports provide you with the information necessary to better manage your spooled files.
- **Command References**
Chapter 7 provides a list of all MMS/*spl* commands, command parameters and values allowed. For those familiar with commands and wishing to bypass the menus, the MMS/*spl* commands provide a fast means of setting up and using the product.
- **Installation Instructions**
Chapter 8 contains the information required to successfully install this product. Information on license keys is also provided.
- **Troubleshooting Guide**
Chapter 9 lists the most commonly asked questions regarding MMS/*spl* functionality. If MMS/*spl* does not function as expected, this appendix can provide you with valuable insight quickly.
- **Software Support**
Chapter 10 provides instructions for accessing Electronic Software Support from the LXI technical support staff. In the event that you need a Program Temporary Fix (PTF) or online support, this chapter walks you step-by-step through the process of getting help.

Conventions Used

The conventions that are used in this manual have been established to help you learn and use the product quickly and easily.

The first time a function is referenced, it displays in **bold** type.

Menus, displays, and command prompts are shown as needed to help explain a function or location of a function.

Default parameters for commands are **bold** and **underlined**.

Command Key Actions

To help minimize the time required to learn MMS Spooled File Management, IBM command key standards have been followed whenever and wherever possible. The following graph shows some of the commands and their use within this product. The command keys available and their associated functions are shown at the bottom of each menu and display.

Command Key	Function	Description
F1	Help	Displays cursor-sensitive help text.
F3	Exit	Exits the function and returns to the prior function.
F4	Prompt	Prompts the user for command parameters.
F5	Refresh	Updates the display with current information.
F12	Cancel	Cancels the requested function.

Online Help

MMS/*spl* provides online help for all commands, menus, and displays. The help provides additional information on a function or field. To access help, position the cursor on the field or parameter in question and press the **F1** key.

MMS/*spl* error messages may also provide additional information on the cause of the error and the corrective action to take. To retrieve additional message help, place the cursor on the message and press the **F1** key. If second level help is available, it is displayed.

Before You Install

Before installing this product, review the items below. Knowing this information from the beginning will simplify using MMS/*spl*.

Command Security

MMS/*spl* is a command driven software product. All menu and display options reference either an IBM or a MMS/*spl* command. Command authority for MMS/*spl* is achieved in the same way that authority is established for IBM commands. If a user is not authorized to use a MMS/*spl* command, the function that the restricted command performs will not be available for use and the option number will not be displayed. If the user tries to access the command directly via command line, he will receive a message from OS/400 stating that he is not authorized to use the command. Refer to the appropriate IBM manual for details on establishing or changing command authority.

System Defaults

MMS/*spl* command defaults conform to iSeries system defaults, where applicable. Overrides can come from IBM commands as well as MMS/*spl*. In areas where IBM has no matching default, MMS/*spl* uses values that cause the software to use the fewest resources and execute the fastest. If the MMS/*spl* command defaults are changed, it is the users' responsibility to maintain the changes during product upgrades.

IBM Commands

MMS/*spl* contains a command set used primarily to create and manage spooled file management functions. In order to provide additional functionality to some IBM commands, MMS/*spl* has duplicated some commands and command names. To ensure integrity and security, the modified IBM commands reside in library MMS/*spl*.

QSPCRTSP API

MMS/*spl* uses the IBM **QSPCRTSP** API when restoring spooled files. The IBM default authority for this API is **PUBLIC(*EXCLUDE)**. Any user restoring MMS/*spl* saved spooled files must have authority to this API prior to performing the restore. The restore process will fail if the user does not have authority to this API.

MMS/spl Requirements

The following requirements will ensure the successful use of this product.

- When saving spooled files to tape, tapes must have unique volume identifiers. This will help in locating tapes when restoring spool files.
- To ensure that all spool backup tapes are tracked and managed, it is recommended that a tape management system, like MMS/*tms* be used.

Chapter 2

Features and Functions

This chapter documents some of the most important features in MMS Spooled File Management (MMS/*spl*). If you are an experienced user, browse through this chapter to find what is new and what features have been added.

Changes in MMS/*spl* are of two types: those that enhance existing features or make them easier to use, and new features that add flexibility and power to MMS/*spl*.

Fast Saves/Restores

Conventional methods of saving spooled files require creating files based on the spooled file length and then converting the spooled file to a database file before copying it to tape. Restores required that tape data be copied to a printer file. MMS/*spl*, through the use of IBM Spooled File API's, reduces the number of steps required and improves the performance of saving and restoring spooled files.

Save by Days

MMS/*spl* Save by Days support saves spooled files after a user-defined number of days have elapsed. This support is based on various spooled file selection criteria. Additionally, the saved spooled files can be deleted once the save completes successfully. This feature can be scheduled through a job scheduler to ensure that spooled files are saved when their time limit on the system has been exceeded.

Delete Options

MMS/*spl* provides a variety of methods to determine when spooled files should be deleted. Spooled files can be deleted based on the number of days since the spooled file was created, or based on the number of days since it was saved, or based on the last used date. This feature can be scheduled through a job scheduler to ensure that output queues are kept at a reasonable size.

SNADS Support

With MMS/*spl* SNADS support, spooled files can be sent to another system or one or more addresses as soon as they arrive on any user-defined output queue.

Generic Support

Generic support allows spooled files to be archived based on the beginning character(s) of the name instead of specifying the full name. MMS/*spl* searches for and archives all spooled files that start with the generic name.

Microfiche Support

MMS/*spl* microfiche support provides the ability to create a microfiche tape. Microfiche vendors who transfer data to microfiche use spooled files written in this format.

Chapter 3

Menus

MMS/*sp/* is a command driven product. As such, most MMS/*sp/* functions can be easily initiated from an OS/400 command line or from within a CL or high-level language program. When the product is first installed, the MMS/*sp/* menu system provides an easy method of learning the commands associated with a particular function. Over time, as the commands become familiar, the menu system can be bypassed and the commands can be accessed directly.

The MMS/*sp/* menu system is comprised of a main menu and four related command menus. Each command menu provides access to another related command menu. Depending on the function and level of menu currently displayed, the related command menu may be an LXI menu or an IBM menu.

Menu Groups

Menus are grouped by function. The following functions have their own menu.

- Output Queue Commands
- Save Commands
- Spooled File Commands
- Security Commands

Menu Security

IBM security can be implemented for any MMS/*sp/* menu or menu function. If a user is not authorized to a menu, the secured menu will not be displayed as an option from other MMS/*sp/* menus. If a user is not authorized to a specific function on a menu, the option and related command will not be displayed. To change the authority of a MMS/*sp/* menu or command, use the appropriate IBM command to change it.

Menu Bars

Some menus contain menu bars. Menu bars are located on the top of a menu and are assigned function names. Use the **Tab** key to position the cursor on the desired function. Once the cursor is in place, pressing the **Enter** key lists the options available. If you are using a mouse, double click on the desired function. This provides a list of the options available. Enter the desired option number in the option field provided and press **Enter**.

The following example shows the location of the menu bar on menu MMS / *spl*.

```

Go Help
-----
LXISPL                Spool                System:  S1234567
Select one of the following:

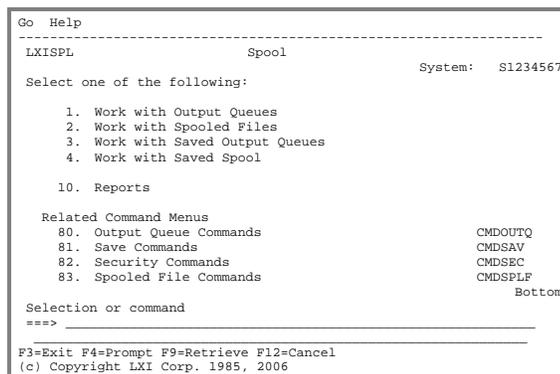
  1. Work with Output Queues
  2. Work with Spooled Files
  3. Work with Saved Output Queues
  4. Work with Saved Spool

10. Reports

Related Command Menus
80. Output Queue Commands          CMDOUTQ
81. Save Commands                  CMDSAV
82. Security Commands              CMDSEC
83. Spooled File Commands          CMDSPLF
                                     Bottom

Selection or command
====>
F3=Exit F4=Prompt F9=Retrieve F12=Cancel
(c) Copyright LXI Corp. 1985, 2006

```



GUI Menus

All menus and displays show in the IBM Graphical User Interface (GUI) format if supported by the display device. This support means that all MMS / *spl* menus and displays will have a PC look and feel with an easy point-and-click interface. The function keys still work and the command line is available for use.

Chapter 4

Getting Started

In this chapter, you will learn how to implement and use the basic functions of MMS/*spl*. If you are a new user to MMS/*spl*, this chapter is important for two reasons: you will become comfortable navigating MMS/*spl*, and you will have a head start on the next MMS program you learn.

Simplicity is the key in getting started. No special commands are required. MMS/*spl* is active once the software is installed. Since MMS/*spl* uses standard IBM commands, compatibility with other products is assured.

The purpose of this chapter is to:

- Save a Spooled File
- Work with a Saved Spool File
- Restore a Spooled File

The remaining chapters provide additional information on other MMS/*spl* functions and options available to you.

Step 1.

To access the LXI Storage Management menu, enter **GO LXI/LXI** from any OS/400 command line.

Choose **Option 1** from the LXI Main Menu.

```

Setup  Help
-----
LXIMAIN                LXI Main Menu                System:  S1234567
Select one of the following:

  1. Storage Management
  2. Operations Automation
 90. Signoff

Selection or command
====>  1
-----
F3=Exit  F4=Prompt  F5=Electronic Software Support  F9=Retrieve
F12=Cancel  F13=Information Assistance  F16=AS/400 Main Menu
    
```

Step 2.

To access the MMS /spl Spool menu, choose **Option 3** from the LXI Storage Management Menu.

```

Help
-----
LXIDMS                Storage Management                System:  S1234567
Select one of the following:

  1. Backup Management
  2. Recovery Management
  3. Spool Management
  4. Storage Management
  5. Tape Management
  6. Vault Management
 90. Signoff

Selection or command
====>  3
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
(c) Copyright LXI Corp. 1985, 2006
    
```

Step 3.

The Spool menu provides options to save spooled files or the contents of entire output queues. To view existing spooled files for your job, choose **Option 2** from this menu.

```

Go  Help
-----
LXISPL                Spool                System:  S1234567
Select one of the following:

  1. Work with Output Queues
  2. Work with Spooled Files
  3. Work with Saved Output Queues
  4. Work with Saved Spool

 10. Reports

Related Command Menus
 80. Output Queue Commands                CMDOUTQ
 81. Save Commands                        CMDSAV
 82. Security Commands                    CMDFSEC
 83. Spooled File Commands                CMDSPLF
                                           Bottom

Selection or command
====>
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
(c) Copyright LXI Corp. 1985, 2006
    
```

Step 4.

Using the Work with All Spooled Files display, choose **Option 10** for any of the spooled files you want to save. Pressing **Enter** highlights the spooled files selected. To deselect a selected spooled file, use **Option 10** and press **Enter**.

```
Work with All Spooled Files
Type options, press Enter.
1-Send 2-Change 3-Hold 4-Delete 5-Display 6-Release 7-Messages
8-Attributes 9-Work with Printing Status 10-Select/Deselect

Opt File      User      Device or      User Data  Sts  Total  Cur  Copy
---  ---      ---      ---      ---  ---  ---  ---
10 QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   1     1   1
---  ---      ---      ---      ---  ---  ---  ---
  QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   5     1   1
10 QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   1     1   1
---  ---      ---      ---      ---  ---  ---  ---
  QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   7     1   1
10 QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   1     1   1

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom F22=Printers
```

Step 5.

Once you have selected the spooled files to save, press **F14**. This displays the Save/Restore Parameters window. Enter the tape device to use and press **Enter**. This submits the saves to the **QLXI** subsystem for processing. To start the **QLXI** subsystem, enter: **STRSBS LXI/QLXI**

```
Work with All Spooled Files
Save/Restore Parameters
Device . . . . .
Delete spooled files . . . *NO
End of tape option . . . *REWIND
F12=Cancel

Opt File      User      Device or      User Data  Sts  Total  Cur  Copy
---  ---      ---      ---      ---  ---  ---  ---
  QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   1     1   1
---  ---      ---      ---      ---  ---  ---  ---
  QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   7     1   1
  QPJOBLOG    QUSER    QEZJOBLOG    QDFTJOBDB RDY   1     1   1

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F14=Submit save F17=Top F18=Bottom F22=Printers
```

Step 6.

After the save from the prior step completes, select **Option 4** from the Spool menu. This displays the Work with Saved Spool panel which lists all saved spooled files.

```
Go Help
-----
LXISPL                               Spool                               System:  S1234567

Select one of the following:

  1. Work with Output Queues
  2. Work with Spooled Files
  3. Work with Saved Output Queues
  4. Work with Saved Spool

10. Reports

Related Command Menus
  80. Output Queue Commands          CMDOUTQ
  81. Save Commands                  CMDSAV
  82. Security Commands              CMDSEC
  83. Spooled File Commands          CMDSPLF

Selection or command
====>

F3=Exit F4=Prompt F9=Retrieve F12=Cancel
(c) Copyright LXI Corp. 1985, 2006
```

Step 7.

Using the Work with Saved Spool display, choose **Option 8** for any of the spooled files you want to restore. Pressing **Enter** highlights the spooled files selected. To deselect a selected spooled file, use **Option 8** and press **Enter**.

```

Work with Saved Spool

Type options, press Enter.
5=Display 8=Select/Deselect 12=Work with Volume 13=Change Desc.

---Create---
Opt File      File Nbr  Job      User      Number   Date      Time
8 QFJOBLOG    0027    QPADEV0011  QUSER    028392  06/28/05  16:32:01
8 QFJOBLOG    0032    QPADEV0009  QUSER    029162  06/29/05  08:11:23
8 QFJOBLOG    0001    QPADEV0002  QUSER    029263  06/30/05  12:08:14

                                                    Bottom

Selection or command
====> _____

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top  F18=Bottom
    
```

Step 8.

Once you have selected the spooled files to restore, press **F14**. This displays the Save/Restore Parameters window. Enter the tape device to use and press **Enter**. This submits the saves to the **QLXI** subsystem for processing.

```

Work with Saved Spool

Save/Restore Parameters

Device . . . . . _____
Restore to output queue. . *SAVOITQ _____
Library. . . . . _____
End of tape option . . . . *REWIND _____

F12=Cancel

                                                    Bottom

Selection or command
====> _____

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F14=Submit restore F18=Bottom
    
```

See the following pages for detailed information.



Chapter 5

Working with Spooled Files

Spooled files, like other objects, are everywhere. They reside in countless output queues in countless libraries. In larger data centers, it is possible to have thousands of spooled files residing in hundreds of output queues. However, unlike other objects, which can be saved and then removed, no system function exists to perform this task. As with other objects, some spooled files need to be saved for audit or government purposes while others serve no function and need to be either removed or saved and removed. The time required to manage this task can be lengthy and therefore seldom performed on a regular basis.

MMS/*spl* provides support for these tasks. Jobs can be run or scheduled that perform the maintenance required for any output queue and the spooled files within them.

This chapter will discuss:

- MMS/*spl* Spooled File Processing
- How to Work with Output Queues
- How to Work with Spooled Files
- How to Recover Spool Files
- How to Copy in Microfiche Format

Spooled File Management Overview

Spooled files are managed through MMS/*spl* commands. These commands provide the ability to copy, save, restore, delete, move and send spooled files. Saving can be performed in one of two ways. Spooled files can be saved in MMS/*spl* format or copied in microfiche format. The MMS/*spl* format provides a significant performance gain not available by conventional means. Using IBM API's, spooled file attributes and data are quickly retrieved and written to tape in compressed format. The microfiche format copies the spooled file data to tape in a format that is usable by microfiche vendors.

Restoring, deleting and sending spooled files is accomplished as efficiently as saving them. The restored spooled files can be restored to the same queue that they were saved from or any other valid queue. Deleting old spooled files based on create, save or last used dates can be scheduled, and with SNADS support, spooled files can be sent to other queues or systems.

Working with Output Queues

The MMS/*spl* Work with Output Queue ([WRKOUTQ](#)) command lists all or specific output queues. Using **Option 1** from the Spool menu, displays the Work with All Output Queues panel. This panel lists all output queues on the system as well as the number of spooled files in each queue. This panel is similar to the IBM panel except that an added option allows one or more of the output queues to be selected for saving.

Saving an Output Queue

Saving the contents of one or more output queues is accomplished by specifying **Option 10** next to the output queues and pressing **Enter**. This selects the output queue(s) to save. To deselect an output queue, specify **Option 10** for the previously selected entry and press **Enter**. Once the output queues to save have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the save to the **QLXI** subsystem. To bypass the panel, use the Save Output Queue ([SAVOUTQ](#)) command.

The image displays two screenshots of the MMS/SPL interface. The left screenshot shows the 'Work with All Output Queues' panel. The right screenshot shows the 'Save/Restore Parameters' dialog box.

Work with All Output Queues (Left Screenshot):

Type options, press Enter.
 2=Change 3=Hold 4=Delete 5=Work with
 9=Work with Writers 10=Select/Deselect 14=CL

Opt Queue	Library	Files	Write
— QDMT	QDMT	0	
— QDKT	QGFL	0	
— QPRINT	QGFL	315	
— QPRINTS	QGFL	125	
— QPRINT2	QGFL	185	
— PRT01	QUSRSYS	592	RLS
— QEZDEBUG	QUSRSYS	104	RLS
10 QEZJOBLOG	QUSRSYS	917	RLS

Selection or command
 =====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F12=C
 F18=Bottom

Work with All Output Queues (Right Screenshot):

Save/Restore Parameters

Device _____
 Delete spooled files . . . *NO
 End of tape option . . . *REWIND

F12=Cancel

— QPRINTS	QGFL	125	RLS
— QPRINT2	QGFL	185	RLS
— PRT01	QUSRSYS	592	RLS
— QEZDEBUG	QUSRSYS	104	RLS
— QEZJOBLOG	QUSRSYS	917	RLS

Selection or command
 =====> Bottom

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F12=Cancel
F14=Submit save F17=Top F18=Bottom

Working with Output Queue Entries

Using **Option 5** from the Work with All Output Queues panel displays the Work with Output Queue panel. This panel displays the spooled files in the selected output queue. The panel is similar to the IBM panel except that an added option allows one or more of the spooled files to be saved.

```

Work with All Output Queues
Type options, press Enter.
 2=Change 3=Hold 4=Delete 5=Work with
 9=Work with Writers 10=Select/Deselect 14=Bottom

Opt Queue      Library      Files      Writ
--- QDMT        QDMT         0
--- QDKT        QGPL         0
--- QPRINT      QGPL        315
--- QPRINTS     QGPL        125
--- QPRINT2     QGPL        185
--- PRT01       QUSRSYS     592
--- QEZDEBUG    QUSRSYS     104
 5  QEZJOBLOG    QUSRSYS     917

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F12=Cancel
F18=Bottom

Work with Output Queue
Queue: QEZJOBLOG      Library: QUSRSYS      Status: RLS
Type options, press Enter.
 1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
 8=Attributes 9=Work with Printing Status 10=Select/Deselect

Opt File      User      User Data  Sts  Pages  Copy  Form Type  Pty
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   5     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   7     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1    *STD      5

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom F22=Printers
  
```

Saving Output Queue Entries

Saving output queue entries is accomplished by specifying **Option 10** next to the output queue entries and pressing **Enter**. This selects the entries to save. To deselect an output queue entry, specify **Option 10** for the previously selected entry and press **Enter**. Once the output queue entries to save have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the save to the QLXI subsystem. To bypass the panel, use the Save Spooled File ([SAVSPLF](#)) command.

```

Work with Output Queue
Queue: QEZJOBLOG      Library: QUSRSYS      Status: RLS
Type options, press Enter.
 1=Send 2=Change 3=Hold 4=Delete 5=Display 6=Release 7=Messages
 8=Attributes 9=Work with Printing Status

Opt File      User      User Data  Sts  Pages  C
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1
--- QJOBLOG    QUSER    QDFTJOB    RDY   5     1
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1
--- QJOBLOG    QUSER    QDFTJOB    RDY   7     1
 10 QJOBLOG    QUSER    QDFTJOB    RDY   1     1

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom F22=Printers

Work with Output Queues
Save/Restore Parameters
Device . . . . .
Delete spooled files . . . *NO
End of tape option . . . *REWIND

F12=Cancel

--- QJOBLOG    QUSER    QDFTJOB    RDY   5     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   7     1    *STD      5
--- QJOBLOG    QUSER    QDFTJOB    RDY   1     1    *STD      5

Selection or command
====>

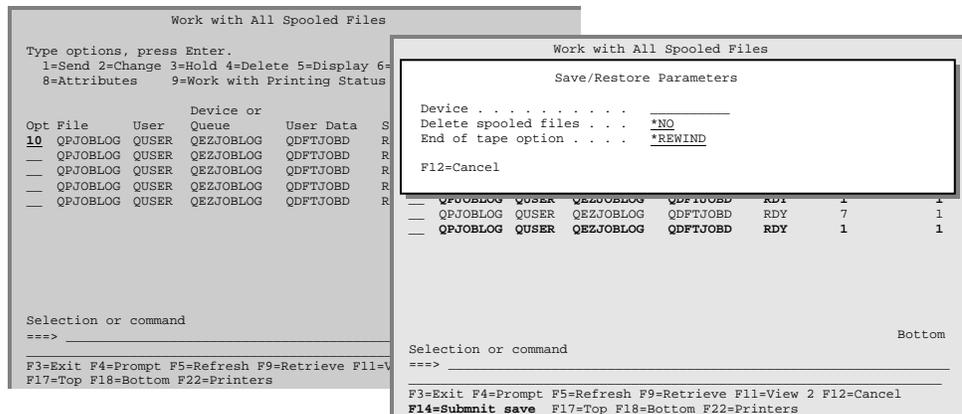
F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F14=Submit save F17=Top F18=Bottom F22=Printers
  
```

Working with Spooled Files

The MMS/*spl* Work with Spooled Files ([WRKSPLF](#)) command lists spooled files based on selection criteria which includes user, print device, form type and user data. Using **Option 2** from the Spool menu displays the Work with Spooled Files panel. This panel is similar to the IBM panel except that an added option allows one or more of the spooled files to be saved.

Saving Spooled Files

Saving spooled files is accomplished by specifying **Option 10** next to the spooled files and pressing **Enter**. This selects the spooled files to save. To deselect a spooled file, specify **Option 10** for the previously selected entry and press **Enter**. Once the spooled files to save have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the save to the **QLXI** subsystem. To bypass the panel, use the Save Spooled File ([SAVSPLF](#)) command.

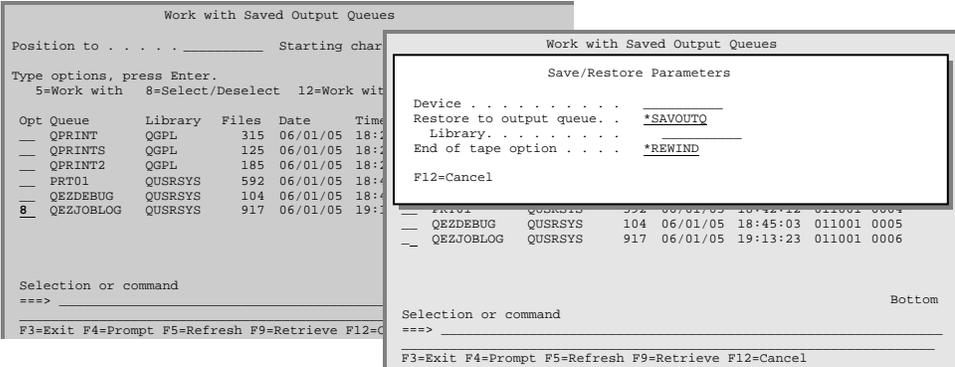


Working with Saved Output Queues

The MMS/*sp/* Work with Saved Output Queue ([WRKSAVOUTQ](#)) command lists all or specific saved output queues. Using **Option 3** from the Spool menu displays the Work with Saved Output Queues panel. This panel lists all saved output queues as well as the number of saved spooled files in each queue.

Restoring an Output Queue

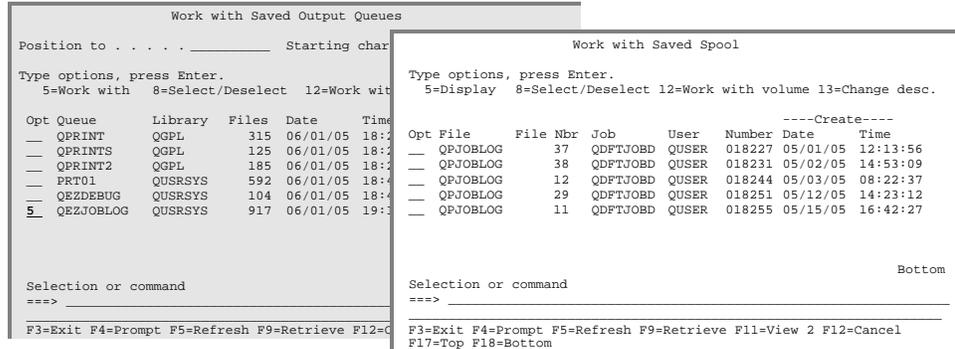
Restoring the contents of one or more output queues is accomplished by specifying **Option 8** next to the output queues and pressing **Enter**. This selects the output queue(s) to restore. To deselect an output queue, specify **Option 8** for the previously selected entry and press **Enter**. Once the output queues to restore have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the restore to the **QLXI** subsystem. To bypass the panel, use the Restore Output Queue ([RSTOUTQ](#)) command.



Note: The output queue being restored must exist on the system and the user must have the appropriate authority to perform the restore. Review the command help text for authority considerations and requirements.

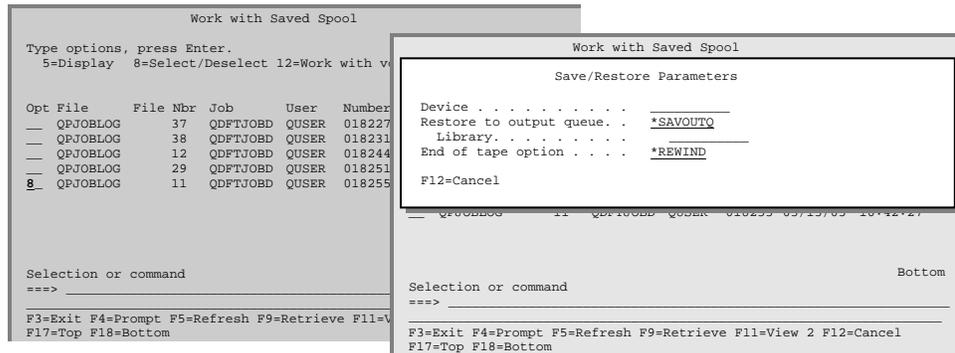
Working with Saved Output Queue Entries

Using **Option 5** from the Work with Saved Output Queue panel displays the Work with Saved Spool panel. This panel displays the saved spooled files from the selected output queue.



Restoring Output Queue Entries

Restoring output queue entries is accomplished by specifying **Option 8** next to the output queue entries and pressing **Enter**. This selects the entries to restore. To deselect an output queue entry, specify **Option 8** for the previously selected entry and press **Enter**. Once the output queue entries to restore have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the restore to the **QLXI** subsystem. To bypass the panel, use the Restore Spooled File ([RSTSPLE](#)) command.



Note: The spooled file can be restored to the original output queue or any other queue to which the user is authorized. The user must have the appropriate authority to restore a spool file. Review the command help text for authority considerations and requirements.

Working with Saved Spool

The MMS/*sp/* Work with Saved Spool ([WRKSAVSPL](#)) command lists all or specific saved spool files. Using **Option 4** from the Spool menu displays the Work with Saved Spool panel. This panel lists all saved spooled files based on selection criteria.

```

Go Help
-----
LXISPL                Spool

Select one of the following:

  1. Work with Output Queues
  2. Work with Spooled Files
  3. Work with Saved Output Queues
  4. Work with Saved Spool

 10. Reports

Related Command Menus
 80. Output Queue Commands
 81. Save Commands
 82. Security Commands
 83. Spooled File Commands

Selection or command
====>

F3=Exit F4=Prompt F9=Retrieve F12=Cancel
(c) Copyright LXI Corp. 1985, 2006

Work with Saved Spool

Type options, press Enter.
 5=Display 8=Select/Deselect 12=Work with volume 13=Change desc.

-----Create-----
Opt File      File Nbr  Job      User      Number  Date      Time
---
QPJOBLOG      37      QDFTJOB  QUSER     018227  05/01/05  12:13:56
QPJOBLOG      38      QDFTJOB  QUSER     018231  05/02/05  14:53:09
QPJOBLOG      12      QDFTJOB  QUSER     018244  05/03/05  08:22:37
QPJOBLOG      29      QDFTJOB  QUSER     018251  05/12/05  14:23:12
QPJOBLOG      11      QDFTJOB  QUSER     018255  05/15/05  16:42:27

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve F11=View 2 F12=Cancel
F17=Top F18=Bottom
  
```

Displaying Spool Information

Displaying saved spool information is accomplished by specifying **Option 5** next to the saved spooled files on the Work with Saved Spool panel and pressing **Enter**. This displays the Display Spool Information panel where the attributes of the saved spool file are shown.

```

Work with Saved Spool

Type options, press Enter.
 5=Display 8=Select/Deselect 12=Work with v

Opt File      File Nbr  Job      User      Number
---
QPJOBLOG      37      QDFTJOB  QUSER     018227
QPJOBLOG      38      QDFTJOB  QUSER     018231
QPJOBLOG      12      QDFTJOB  QUSER     018244
QPJOBLOG      29      QDFTJOB  QUSER     018251
5 QPJOBLOG      11      QDFTJOB  QUSER     018255

Selection or command
====>

F3=Exit F4=Prompt F5=Refresh F9=Retrieve
F17=Top F18=Bottom

Display Spool Information

Spooled file . . . : QPJOBLOG      Queue . . . . . : QEZJOBLOG
File number . . . : 11          Library . . . . : QGPL
Text description . .

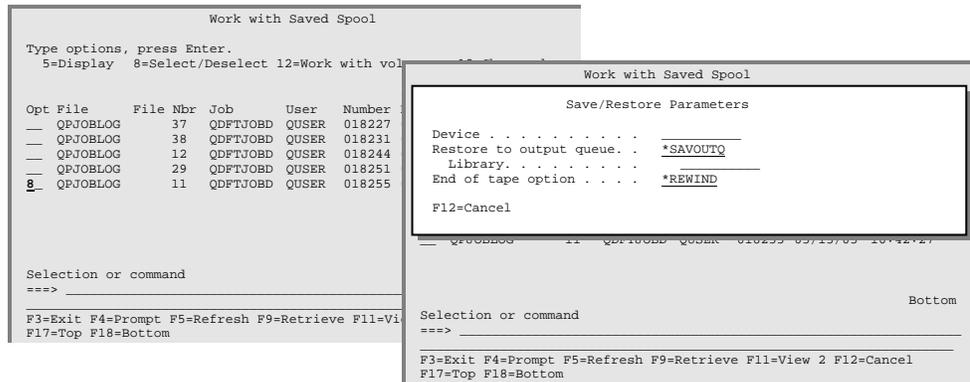
Spooled information:
Create:
  Job . . . . . : QDFTJOB
  User . . . . . : QUSER
  Number . . . . : 018255
  Date/Time . . . : 06/01/05 12:36:29
  User data . . . . :
  Form type . . . . : *STD
  File status . . . : RDY
  Total pages . . . : 3
  Total copies . . : 1

F12=Cancel F14=Print list

More ...
  
```

Restoring Spool Files

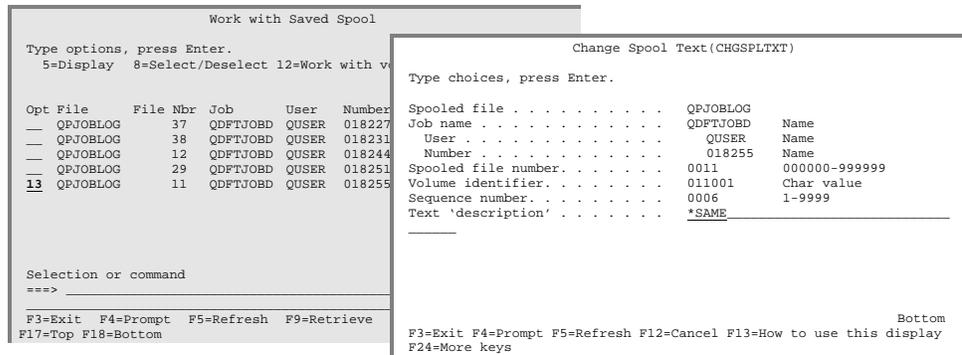
Restoring spooled files is accomplished by specifying **Option 8** next to the spooled files and pressing **Enter**. This selects the spooled files to restore. To deselect a spooled file, specify **Option 8** for the previously selected entry and press **Enter**. Once the spooled files to restore have been selected, press **F14**. This prompts the Save/Restore Parameters window. Enter the tape device name and other parameters as needed. Pressing **Enter** submits the restore to the **QLXI** subsystem. To bypass the panel, use the Save Spooled File ([RSTSPLE](#)) command.



Note: The spooled file can be restored to the original output queue or any other queue to which the user is authorized. The user must have the appropriate authority to restore a spooled file. Review the command help text for authority considerations and requirements.

Changing Spool Text

Changing saved spool text is accomplished by specifying **Option 13** next to the saved spooled files on the Work with Saved Spool panel and pressing **Enter**. This prompts the Change Spool Text ([CHGSPLTXT](#)) command. Enter up to 50-characters of text to help identify the saved spooled file.



Working with Volumes

MMS/*spl* provides an interface to LXI tape management (MMS/*tms* – V5R1M0+). If one of these products is installed, additional tape volume support is available. Using **Option 12** from either the Work with Saved Output Queue or Work with Saved Spool panel can access this functionality.

Save Options

The MMS/*spl* Save Spooled File ([SAVSPLF](#)) command includes options to save spooled files based on:

- Output Queue
- User Profile
- Spooled File Status
- Create Date/Time Range
- Days on Queue

Saving Spooled Files by Days on Queue

In this example, all spooled files in output queue **QPRINT**, which have been on the queue for **10** days or more are saved and deleted.

```
SAVSPLF DEV(TAP01) OUTQ(QPRINT) MAXDAY(10) DLTSPFL(*YES) +  
      SEQNBR(1) ENDOPT(*UNLOAD)
```

Saving Spooled Files by Date/Time Range

In this example, all spooled files in output queue **QPRINT**, which were created between **May 1, 2005** and **June 1, 2005**, are saved and deleted.

```
SAVSPLF DEV(TAP01) OUTQ(QPRINT) PERIOD((050105(060105 +  
      DLTSPFL(*YES) SEQNBR(1) ENDOPT(*UNLOAD)
```

Deleting Spooled Files

The MMS/*sp/* Delete Spooled File ([DLTSPLF](#)) command deletes spooled files from up to 300 output queues. Besides providing standard IBM functionality, it includes the ability to delete spooled files based on the number of days since the spooled file was:

- Created
- Saved
- Last Used

Deleting Spooled Files by Create Date

In this example, all job logs in output queue **QEZJOBLOG** in **QGPL** are deleted **30** days after they are created. Up to 300 output queues can be specified.

```
DLTSPLF FILE(*SELECT) SELECT(*ALL *OUTQ *ALL *ALL *CREATE 30) +
      OUTQ(QGPL/QEZJOBLOG)
```

Deleting Spooled Files by Saved Date

In this example, all spooled files in output queue **ACCTLIB** in **ACCTLIB** are deleted **45** days from the spooled files save date. Up to 300 output queues can be specified.

```
DLTSPLF FILE(*SELECT) SELECT(*ALL *OUTQ *ALL *ALL *SAVE 45) +
      OUTQ(ACCTLIB/ACCOUNTING)
```

Deleting Spooled Files by Last Used Date

In this example, all spooled files for the current user, in output queue **QPRINT** in **QGPL**, are deleted **10** days from the spooled files last used date. Up to 300 output queues can be specified.

```
DLTSPLF FILE(*SELECT) SELECT(*CURRENT *OUTQ *ALL *ALL +
      *USE 10) OUTQ(QGPL/QPRINT)
```

Sending Spooled Files

The MMS/*sp*/ Send Spooled File ([SNDSPLF](#)) command sends spooled files to up to 300 SNADS addresses. Options include the ability to send Spooled files based on:

- Output Queue
- User Profile
- Generic or Full Job Name

Send Spooled Files by Output Queue

In this example, all spooled files in output queue **QPRINT**, are sent to user-id **QSYSOPR** on system **S112233**. The spooled files are sent as soon as they arrive on the output queue.

```
SNDSPLF FILE(*ALL) TOUSRID((QSYSOPR S112233)) OUTQ(QPRINT) +  
      JOB(*ALL) USRPRF(*ALL) WAITFILE(*IMMED)
```

Creating a Microfiche Tape

MMS/*spl* allows spooled files to be copied in microfiche format. This format copies the spooled file to tape in a way that is easily converted to microfiche by microfiche vendors. Creating a microfiche tape is accomplished by using the Copy Spool to Microfiche ([CPYSPLTOMF](#)) command.

Copying Spooled Files by Days on Queue

In this example, all spooled files in output queue **QPRINT**, which have been on the queue for **10** days or more are copied to tape. The spooled file record length is 132 characters.

```
CPYSPLTOMF DEV(TAP01) OUTQ(QPRINT) MAXDAY(10) SEQNBR(1) +
          ENDOPT(*UNLOAD) RCDLEN(132)
```

Copying Spooled Files by Date/Time Range

In this example, all spooled files in output queue **QPRINT**, which were created between **May 1, 2005** and **June 1, 2005**, are copied to tape. The spooled file record length is 198 characters.

```
CPYSPLTOMF DEV(TAP01) OUTQ(QPRINT) PERIOD((050105) (060105)) +
          SEQNBR(1) ENDOPT(*UNLOAD) RCDLEN(198)
```

Chapter 6

Reports

The following is a list of all reports available from MMS/*spl*. The name of the report and the command(s) used to print them and the printer file are listed. All printer files reside in library **LXISPL400**.

Report	Command	Printer File
Display Spool Information	DSPSPLINP	QSPLPRT
Work with Output Queue	WRKOUTQ	QSPLPRT
Work with Saved Output Queue	WRKSAVOUTQ	QSPLPRT
Work with Spooled Files	WRKSPLF	QSPLPRT
Work with Saved Spool	WRKSAVSPL	QSPLPRT

Accessing the Report Menu

To access the MMS/*spl* report menu, choose **Option 10** from the Spool menu.

Go Help	Setup
LXISPL Spool ----- Select one of the following: 1. Work with Output Queues 2. Work with Spooled Files 3. Work with Saved Output Queues 4. Work with Saved Spool 10. Reports Related Command Menus 80. Output Queue Commands 81. Save Commands 82. Security Commands 83. Spooled File Commands Selection or command ====> _____ F3=Exit F4=Prompt F9=Retrieve F12=Cancel (c) Copyright LXI Corp. 1985, 2006	SPLRPT Reports System: S1234567 ----- Select one of the following: 1. Display Spool Information DSPSPLINE 3. Work with Output Queues WRKOUTQ 4. Work with Saved Output Queues WRKSAVOUTQ 5. Work with Spooled Files WRKSPLF 6. Work with Saved Spool WRKSAVSPL Selection or command Bottom ====> _____ F3=Exit F4=Prompt F9=Retrieve F12=Cancel

Printing Reports

To print a report, choose the desired option number from the Reports menu. This prompts the associated command for selection criteria, if required, and spools the output to the job's output queue or to the output queue specified in the printer file, if overridden. The reports can also be printed by prompting the commands (listed on the right-hand side) and specifying ***PRINT** for the **OUTPUT** parameter.

Changing Printer File Attributes

Changing the printer file attributes allows you to change the attributes of the printer device file. The attributes that can be changed include the device, device type, lines per page, lines per inch, characters per inch and output queue. The ability to change the MMS/*spl* printer file is based on the users authority to the IBM Change Printer File (**CHGPRTF**) command.

Changing Printer Attributes

To change the printer file attributes, select **Setup** from the Reports pull-down menu. Choose **Option 1**, Printer Files. This lists the MMS/*spl* printer files available for change. Choose **Option 2** for the printer file requiring change and change the parameters as needed. The changes remain with the printer file until changed again.

```

Setup
-----
: 1 1. Printer Files :      Reports
:.....:
Select one of the following:

1. Display Spool Information
3. Work with Output Queue
4. Work with Saved Output Queue
5. Work with Spooled Files
6. Work with Saved Spool

System: S1234567

Work with Printer Files
Type options, press Enter.
2=Change

Opt  Object  Attribute  Text
 2   QSPLPRT  PRTF      LXI/spl non-described printer file

Change Printer File (CHGPRTF)
Type choices, press Enter.

File . . . . . QSPLPRT      Name, generic*, *ALL
Library . . . . . LXISPL400   Name, *LIBL, *ALL...
Device:
Printer . . . . . *JOB        Name, *SAME, *JOB...
Printer device type . . . . *SCS      *SAME, *SCS...
Page size:
Length--lines per page . . 66         .001-255.000, *SAME
Width--positions per line  132        .001-378.000, *SAME
Measurement method . . . . *ROWCOL    *SAME, *ROWCOL, *UOM
Lines per inch . . . . . 6          *SAME, 6, 3, 4, 7.5...
Characters per inch . . . . 10         *SAME, 10, 5, 12...
Overflow line number . . . . 60         1-255, *SAME
Record format level check . *NO        *SAME, *YES, *NO
Text 'description' . . . . . LXI/spl non-described printer'

Bottom
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys
  
```

Spool Information Report

The Display Spool Information ([DSPSPLINE](#)) command creates the Spool Information report, which lists the create and save information for a specific saved spooled file.

```
Spool Information                                     Page 1
S1234567 07/08/05 12:42:47

Spooled file . . . . : QPSRVDMP
File number . . . . : 37
Text description . . :
Spool information:
Create
Job . . . . . : QPADEV0011
User . . . . . : QUSER
Number . . . . . : 076563
Date/time . . . . . : 05/28/05 12:54:12
Queue . . . . . : QEZDEBUG
Queue library . . . : QUSRSYS
User Data . . . . . :
Form type . . . . . : *STD
File status . . . . : RDY
Total pages . . . . : 23
Total copies . . . . : 1
Save information:
Volume . . . . . : 011001
Sequence number . . : 1
Save:
Job . . . . . : QPADEV0010
User . . . . . : QUSER
Number . . . . . : 079856
Date/time . . . . . : 06/01/05 20:32:09
Command . . . . . : SAVSPLF
Label . . . . . : QEZDEBUG
Expiration date . . : 11/15/05
Type . . . . . : MMS/spl Save
```

* * * * * (c) Copyright LXI Corp. 1985, 2006. * * * * *

Spooled Files Report

The Work with Output Queue ([WRKOUTQ](#)) command creates the Spooled Files report, which lists spooled files in the specified output queue.

Spooled Files											Page	1	
											S1234567	07/08/05	12:42:47
Queue: QEZDEBUG Library: QUSRSYS Status: Rls													
File	User	Data	Status	Pages	Copies	Form	Pty	FileNbr	Job	Number	Date	Time	
QPSRVDMP	QUSER		RDY	4	1	*STD	5	1	DSP01	080224	06/23/05	20:06:01	
QPSRVDMP	QUSER		RDY	7	1	*STD	5	1	DSP01	080224	06/23/05	20:06:15	
QPSRVDMP	QUSER		RDY	12	1	*STD	5	1	DSP01	080224	06/23/05	20:06:32	
QPSRVDMP	QUSER		RDY	2	1	*STD	5	1	DSP01	080224	06/23/05	20:06:56	
QPSRVDMP	QUSER		RDY	2	1	*STD	5	1	DSP01	080224	06/23/05	20:08:12	
QPSRVDMP	QUSER		RDY	31	1	*STD	5	1	DSP01	080484	06/23/05	20:08:49	
QPSRVDMP	QUSER		RDY	27	1	*STD	5	1	DSP01	080484	06/23/05	20:10:11	
QPSRVDMP	QUSER		RDY	16	1	*STD	5	1	DSP01	080484	06/23/05	20:10:37	
QPSRVDMP	QUSER		RDY	1	1	*STD	5	1	DSP01	080484	06/23/05	20:10:54	
QPSRVDMP	QUSER		RDY	1	1	*STD	5	1	DSP01	080457	06/23/05	20:11:08	
QPSRVDMP	QUSER		RDY	1	1	*STD	5	1	DSP01	080457	06/23/05	20:11:21	
QPSRVDMP	QUSER		RDY	6	1	*STD	5	1	DSP01	080457	06/23/05	20:11:42	
QPSRVDMP	QUSER		RDY	5	1	*STD	5	1	DSP01	080457	06/23/05	20:12:13	

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Saved Output Queues Report

The Work with Saved Output Queues ([WRKSAVOUTQ](#)) command creates the Saved Output Queue report, which lists saved output queues.

Saved Output Queues

Page 1

S1234567 07/08/05 12:42:47

Queue	Library	Files	Date	Time	Volume	Seq
QEZDEBUB	QUSRSYS	34	06/01/05	20:15:56	011001	1
QEZJOBLOG	QUSRSYS	56	06/01/05	20:15:56	011001	2
QPRINT	QGPL	87	06/01/05	20:15:56	011001	3
QPRINT2	QGPL	8	06/01/05	20:15:56	011001	4

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Work with All Spooled Files Report

The Work with Spooled Files ([WRKSPLF](#)) command creates the Work with All Spooled Files report, which lists all or specific spooled files.

```
Work with All Spooled Files                                     Page      1
SI234567 07/08/05 12:57:42
```

File	Nbr	User	Date	Time	User Data	Sts	Job	Number	Queue	Library
QPJOBLOG	1	QUSER	06/15/05	17:32:12		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	18:01:56		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	18:26:45		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	19:11:32		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	19:23:01		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	19:47:38		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	20:04:41		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	20:17:27		RDY	DSP01	079598	QPRINT	QGPL
QPJOBLOG	1	QUSER	06/15/05	20:18:39		RDY	DSP01	079598	QPRINT	QGPL

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Saved Spool Report

The Work with Saved Spool ([WRKSAVSPL](#)) command creates the Saved Spool Files report, which lists saved spooled files based on selection criteria. Selection criteria includes spooled file name, job name, date/time and volume information.

Saved Spool Files											Page	1	
											S1122334	07/08/05 13:11:04	
-----Create-----											File	Volume	Seq
File	User	Queue	Data	Sts	Pages	Form	Date	Time	File	Volume	Seq		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	71	*STD	06/28/05	16:01:23	0037	011001	0001		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	23	*STD	06/28/05	17:15:54	0037	011001	0001		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	14	*STD	06/28/05	17:26:31	0037	011001	0001		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	79	*STD	06/28/05	17:58:01	0037	011001	0001		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	10	*STD	06/28/05	18:37:45	0037	011001	0001		
QPJOBLOG	QUSER	QEZJOBLOG		RDY	12	*STD	06/28/05	18:43:19	0037	011001	0001		

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Chapter 7

Spooled File Management Commands

MMS/*spl* is a command-driven product. Even in the MMS/*spl* menus, commands are executed to perform the requested function. If desired, these commands can be used directly instead of the menus to provide faster access to MMS/*spl* functions. Not all commands can be used in the same environment. Some commands can only be used interactively (**I**), some only in batch (**B**) and others are available for all environments (**B/I**). Commands are restricted to the environment for which they were created. Before using a MMS/*spl* command, ensure that it is allowed in the environment from which you wish to execute it.

The following pages show all of the MMS Spooled File Management commands with their parameters and a brief description of each parameter's purpose.

The commands are listed in alphabetical sequence.

CHGSPLTXT - Change Spool Text

Change Spool Text (CHGSPLTXT)		Environment: B/I
Spooled file	_____	Name
Job name	_____	Name
User	_____	Name
Number	_____	000000-999999
Spooled file number	_____	1-9999
Volume identifier	_____	Char
Sequence number	_____	1-9999
System name	_____	Name, *LCL
Text	_____	Char, *SAME, *BLANK

Purpose

The Change Spool Text (CHGSPLTXT) command changes the user-defined text that is associated with a saved spooled file. To simplify the use of this command, reference it through the Work with Saved Spool panel.

Parameters

- FILE:** Specifies the name of the saved spooled file whose text to change.
Spooled-file-name Enter a saved spooled file name.
- JOB:** Specifies the qualified job of the spooled files to change. This parameter contains three elements.
- Job name: Specifies the name of the job that created the spooled file.
Job-name Enter a valid job name.
- User: Specifies the name of the user that created the spooled file.
User-name Enter a valid user name.
- Number: Specifies the job number of the job that created the spooled file.
000000-999999 Enter a valid job number.
- SPLNBR:** Specifies the number of the saved job's spooled file whose text to change.
Spooled-file-number Enter the number of the saved spooled file.
- VOL:** Specifies the volume identifier that identifies where the spooled file was saved.
Volume-id Enter a valid volume identifier.
- SEQNBR:** Specifies the sequence number where the spooled file was saved.
 1-9999 Enter the sequence number.

SYSTEM: Specifies the system on which the spooled files were saved.

*LCL The spooled files were saved on the local system.

System-name Enter a valid system name.

TEXT: Specifies the text that briefly describes the object.

***SAME** Retain the current value.

*BLANK No text is associated with this spooled file.

'description' Enter no more than 50 characters of text, enclosed in apostrophes.

Examples

```
CHGSPLTXT FILE(QAUDRPT) JOB(082738/QSECOFR/QPADEV0001) SPLNBR(1) +
VOL(011001) SEQNBR(12) TEXT('Audit Report for June 1999')
```

This changes the text for the saved spooled file. To simplify the use of this command, reference it using Option 13 on the Work with Saved Spool panel. To view saved spool text, use Option 5 on the Work with Saved Spool panel.

CPYSPLTOMF - Copy Spool to Microfiche

Copy Spool to Microfiche (CPYSPLTOMF) Environment: B/I

Device name	_____	Name	
Spooled file	<u>*ALL</u>	Name, generic, *ALL	
Output queue	_____	Name	
Library	<u>*LIBL</u>	Name, *LIBL, *CURLIB	
User profile	<u>*ALL</u>	Name, *ALL, *CURRENT	
Print device	<u>*ALL</u>	Name, *ALL	
Form type	<u>*ALL</u>	Form type, *ALL, *STD	
User data	<u>*ALL</u>	User data, *ALL	
Spooled file status	<u>*ALL</u>	*ALL, *READY, *HELD, *SAVED	
Time period selection:			
Starting date and time:			
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN	
Starting time	<u>*AVAIL</u>	Time, *AVAIL	
Ending date and time:			
Ending date	<u>*CURRENT</u>	Date, *CURRENT, *END	
Ending time	<u>*AVAIL</u>	Time, *AVAIL	
Maximum days on queue	<u>*NOMAX</u>	0-3650, *NOMAX	
Volume identifier	<u>*MOUNTED</u>	Char, *MOUNTED	
Sequence number	<u>*END</u>	1-16777215, *END	
Label	<u>*OUTQ</u>	*OUTQ, *LIB	
File expiration date	<u>*PERM</u>	Date, *PERM	
End of tape option	<u>*REWIND</u>	*REWIND, *LEAVE, *UNLOAD	
Output	<u>*NONE</u>	*NONE, *PRINT	
Job label	<u>*NONE</u>	Name, *NONE	
Record length	198	1-198	
Block length	19800	18-32767, *CALC	
Job name	_____	Name	
User	_____	Name	
Number	_____	000000-999999	
Spooled file number	<u>*ALL</u>	1-9999, *ALL	

Purpose

The Copy Spooled File to Microfiche (CPYSPLTOMF) command copies one or more spooled files to tape in microfiche format, which is used by microfiche vendors. The selection criteria provides the ability to select spooled files based on generic or full spooled file name, output queue, user profile, days on the queue and date/time requirements.

Parameters

- DEV: Specifies the names of the tape devices to use during the copy process.
Device-name Enter a valid device name.
- FILE: Specifies the name of the spooled file to copy.
*ALL All spooled files are selected.
 generic* Enter the generic name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).
Spooled-file-name Enter a spooled file name.

OUTQ: Specifies the name and library of the output queue where the spooled files reside.

Output queue:

Output-queue Enter the name of the output queue.

Library:

***LIBL** The output queue is in the current job's library list.

*CURLIB The output queue is in the job's current library.

Library-name Enter a valid library name.

USRPRF: Specifies the name of the user profile that created the spooled files to copy.

***ALL** All spooled files are selected.

User-profile Enter a valid user profile name.

PRTDEV: Specifies the name of the print device of the spooled files to copy.

***ALL** All spooled files are selected.

Print-device Enter a valid print device.

FORMTYPE: Specifies the name of the form type of the spooled files to copy.

***ALL** All spooled files are selected.

*STD Only files that specify the standard form type are selected.

Form-type Enter a valid form type.

USRDTA: Specifies the user data of the spooled files to copy.

***ALL** All spooled files are selected.

User-data Enter the user data.

STATUS: Specifies the status of the spooled files to copy.

***ALL** All spooled files are selected.

*READY Only files in *READY status are selected.

*HELD Only files in *HELD status are selected.

*SAVED Only files in *SAVED status are selected.

PERIOD: Specifies the period of time of the spooled files to copy. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

***CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

***CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

MAXDAY:	Specifies the maximum number of days that the spooled file has been on the specified output queue.
	<u>*NOMAX</u> All spooled files are selected.
	<i>1-3650</i> Enter the maximum days.
VOL:	Specifies the volume identifiers to use for the copy process.
	<u>*MOUNTED</u> The mounted volume is used.
	<i>Volume-id</i> Enter a valid volume identifier.
SEQNBR:	Specifies the sequence number where the saved spooled file is copied.
	<u>*END</u> The copy begins at the last available sequence number.
	<i>1-16777215</i> Enter the sequence number.
LABEL:	Specifies the data file label to use on the tape.
	<u>*OUTQ</u> The output queue name is used.
	*LIB The name of the library that contains the output queue being copied is used.
EXPDATE:	Specifies when the volume expires. The value *PERM must be used if a job label is specified in the JOBLBL parameter.
	<u>*PERM</u> The volume has a permanent retention. The volume will not expire.
	<i>Expiration-date</i> Enter a valid expiration date. The expiration date must be greater than the save date.
ENDOPT:	Specifies the positioning operation performed on the tape after the copy completes.
	<u>*REWIND</u> The tape is automatically rewound, but not unloaded.
	*LEAVE The tape does not rewind or unload. It remains at the current position on the tape drive.
	*UNLOAD The tape is automatically rewound and unloaded.
OUTPUT:	Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
	<u>*NONE</u> No output is created.
	*PRINT The output is printed with the job's spooled output.

- JOBLBL:** Specifies the name of the LXI tape management job label to be used. The job label establishes retention for the volumes used. If a tape job label is specified, it is verified. This value is ignored if LXI tape management is not installed.
- *NONE** No tape job label is used.
- Label* Enter a valid LXI tape job label.
- RCDLEN:** Specifies the length, in bytes, of the spooled file records being copied.
- 198** The length of the spooled file record is 198 bytes.
- 1-198* Enter the length of the spooled file records.
- BLKLEN:** Specifies the maximum length, in bytes, of the data blocks transferred to or from the tape for input or output operations.
- 19800** The length of the data block is 19800 bytes.
- *CALC** The system attempts to calculate the appropriate block length when the file is opened. The value specified in the **RCDLEN** parameter is used to determine this value.
- 18-32767* Enter the maximum block length.
- JOB:** Specifies the qualified job of the spooled files to copy. This parameter contains three elements.
- Job name:** Specifies the name of the job that created the spooled file.
- Job-name* Enter a valid job name.
- User:** Specifies the name of the user that created the spooled file.
- User-name* Enter a valid user name.
- Number:** Specifies the job number of the job that created the spooled file.
- 000000-999999* Enter a valid job number.
- SPLNBR:** Specifies the number of the job's spooled file to copy.
- *ALL** All spooled files are copied.
- Spooled-file-number* Enter the number of the spooled file.

Examples

```
CPYSPLTOMF DEV(TAP01) OUTQ(QPRINT) PERIOD((050105) (060105)) +
  SEQNBR(1) ENDOPT(*UNLOAD) RCDLEN(198)
```

In this example, all spooled files in output queue QPRINT, which were created between May 1, 2005 and June 1, 2005, are copied to tape. The spooled file record length is 198 characters.

DLTSPLF – Delete Spooled File

Delete Spooled File (DLTSPLF)		Environment: B/I
Spooled file	_____	Name, *SELECT
Job name	*_____	Name
User	_____	Name
Number	_____	000000-999999
Spooled file number	*ONLY	1-9999, *ONLY
Select files for:		
User	*CURRENT	Name, *ALL, *CURRENT
Print device	*ALL	Name, *ALL, *OUTQ
Form type	*ALL	Form type, *ALL, *STD
User data	*ALL	User data, *ALL
Days based on	_____	*CREATE, *SAVE, *USE
Number of days	_____	1-366
Output queue	_____	Name, *ALL
Library	*LIBL	Name, *LIBL

Purpose

The Delete Spooled File (DLTSPLF) command deletes one or more spooled files from one or more output queues. Up to 300 output queues can be specified. Spooled file deletion can be based on spooled file create date, save date or date last used.

Parameters

FILE:	Specifies the name of the spooled file to delete.
*SELECT	All spooled files that meet the selection values specified on the SELECT parameter are selected.
<i>Spooled-file-name</i>	Enter a saved spooled file name.
JOB:	Specifies the qualified job of the spooled files to delete. This parameter contains three elements.
<u>J</u>ob name:	Specifies the name of the job that created the spooled file.
<i>Job-name</i>	Enter a valid job name.
<u>U</u>ser:	Specifies the name of the user that created the spooled file.
<i>User-name</i>	Enter a valid user name.
<u>N</u>umber:	Specifies the job number of the job that created the spooled file.
<i>000000-999999</i>	Enter a valid job number.

- SPLNBR:** Specifies the number of the job's spooled file to delete.
- *ONLY** Only one spooled file in the job has the specified file name; therefore, the number of the spooled file is not necessary.
- Spooled-file-number* Enter the number of the spooled file.
- SELECT:** Specifies which group of spooled files should be selected for deletion. Six positional values can be specified to select the files: the user that created the file, the device that the file is queued for, the form type specified or the user data tag associated with the file. Only files that meet each of the values are selected.
- User:** Specifies the user of the spooled files to select.
- *CURRENT** Only files created by the user running this command are selected.
- *ALL** Files created by all users are selected.
- User-name* Enter the user whose spooled files to select.
- Print device:** Specifies the print device of the spooled files to select.
- *ALL** Files on any device created or user created output queue are selected.
- *OUTQ** The output queues specified on the **OUTQ** parameter are selected.
- Device-name* Enter a device name. Only files on the device created output queue for that device are selected. A device created output queue is one that has the same name as a device and resides in the **QUSRSYS** library.
- Form type:** Specifies the form type of the spooled files to select.
- *ALL** All form types are selected.
- *STD** Only files that specify the standard form type are selected.
- Form-type* Enter the form type to select.
- User data:** Specifies the user data of the spooled files to select.
- *ALL** Files with any user data tag specified are selected.
- User-data* Enter the user data of the spooled files to select.
- Days based on:** Specifies which date to use for selection criteria.
- *CREATE** The spooled file create date is used.
- *SAVE** The spooled file save date is used.
- *USE** The spooled file last used date is used.

Number of days: Specifies the number of days that must elapse before the spooled file is deleted. This value is added to the date specified on the “Days based on” parameter. If the date is less than or equal to the current date, the spooled file is deleted.

1-366 Enter the number of days that must elapse before the spooled file is selected.

OUTQ: Specifies the name and library of the output queue where the spooled files reside. Up to 300 output queues can be specified.

Output queue:

*ALL All output queues will have the selected spooled files deleted.

Output-queue Enter the name of the output queue.

Library:

*LIBL The library is in the users library list.

Library-name Enter a valid library name.

Examples

```
DLTSPLF FILE(*SELECT) SELECT(*ALL *OUTQ *ALL *ALL *SAVE 45) +  
OUTQ(ACCTLIB/ACCOUNTING)
```

In this example, all spooled files in output queue ACCOUNTING in ACCTLIB are deleted 45 days from the spooled files save date.

DLTSPLVOL - Delete Spool Volume

Delete Spool Volume (DLTSPLVOL)

Environment: B/I

Volume identifier _____ Char

Purpose

The Delete Spool Volume (DLTSPLVOL) command deletes the saved spooled file entries saved on the specified volume identifier from the MMS/*spl* database.

Note: *This command should not be used if LXI tape management is installed. If LXI tape management is installed, saved spooled file entries are removed from the MMS/*spl* database if a tape volume is deleted, re-initialized or reused.*

Parameters

VOL: Specifies the name of the saved spool tape volume to delete.
Volume-identifier Enter a valid volume identifier.

Examples

DLTSPLVOL VOL(123456)

In this example, all saved spooled files residing on tape volume 123456 are deleted from the MMS/*spl* database.

DSPSPLINF – Display Spool Information

Display Spool Information (DSPSPLINF) Environment: B/I

Spooled file	_____	Name
Job name	_____	Name
User	_____	Name
Number	_____	000000-999999
Spooled file number	_____	1-16777215
Volume identifier	_____	Char
Sequence number	_____	1-9999
System	<u>*LCL</u>	Name, *LCL
Output	*	*, *PRINT

Purpose

The Display Spool Information (DSPSPLINF) command allows the user to display the create and save information of a spooled file. To simplify the use of this command, reference it through the Work with Saved Spool panel.

Parameters

FILE: Specifies the name of the saved spooled file whose text to display.
Spooled-file-name Enter a saved spooled file name.

JOB: Specifies the qualified job of the spooled files to display. This parameter contains three elements.

Job name: Specifies the name of the job that created the spooled file.
*J*ob-name Enter a valid job name.

User: Specifies the name of the user that created the spooled file.
*U*ser-name Enter a valid user name.

Number: Specifies the job number of the job that created the spooled file.
000000-999999 Enter a valid job number.

SPLNBR: Specifies the number of the saved job's spooled file to display.
Spooled-file-number Enter the number of the saved spooled file.

VOL: Specifies the volume identifier that identifies where the spooled file was saved.
*V*olume-id Enter a valid volume identifier.

SEQNBR: Specifies the sequence number where the saved spooled file was saved.
 1-16777215 Enter the sequence number.

- SYSTEM: Specifies the system on which the spooled files were saved.
- *LCL** The spooled files were saved on the local system.
 - System-name* Enter a valid system name.
- OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
- *** The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).
 - *PRINT** The output is printed with the job's spooled output.

Examples

```
DSPSPLINF FILE(QAUDRPT) JOB(082738/QSECOFR/QPADEV0001) SPLNBR(1) +
VOL(011001) SEQNBR(12)
```

This displays the create and save information for the specified saved spooled file. To simplify the use of this command, reference it using Option 5 on the Work with Saved Spool panel.

MOVSPLF – Move Spooled File

Move Spooled File (MOVSPLF)		Environment: B/I
Spooled file	_____	Name, *SELECT
Output queue	_____	Name
Library	<u>*LIBL</u>	Name, *LIBL, *CURLIB
Job name	*	Name
User	_____	Name
Number	_____	000000-999999
Spooled file number	<u>*ONLY</u>	1-9999, *ONLY, *LAST
Select files for:		
User	<u>*CURRENT</u>	Name, *ALL, *CURRENT
Print device	<u>*ALL</u>	Name, *ALL, *OUTQ
Form type	<u>*ALL</u>	Form type, *ALL, *STD
User data	<u>*ALL</u>	User data, *ALL
Spooled file status	<u>*ALL</u>	*ALL, *READY, *HELD, *SAVED
Time period selection:		
Starting date and time:		
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN
Starting time	<u>*AVAIL</u>	Time, *AVAIL
Ending date and time:		
Ending date	<u>*CURRENT</u>	Date, *CURRENT, *END
Ending time	<u>*AVAIL</u>	Time, *AVAIL

Purpose	The Move Spooled File (MOVSPLF) command moves one or more spooled files from one or more output queues to another.
---------	--

Parameters	<p>FILE: Specifies the name of the spooled file to move.</p> <p>*SELECT All spooled files that meet the selection values specified on the SELECT parameter are selected.</p> <p><i>Spooled-file-name</i> Enter a saved spooled file name.</p> <p>TOOUTQ: Specifies the name and library of the destination output queue where the spooled files will reside.</p> <p><u>Output queue:</u></p> <p style="padding-left: 40px;"><i>Output-queue</i> Enter the name of the output queue.</p> <p><u>Library:</u></p> <p style="padding-left: 40px;">*LIBL The output queue is in the current job's library list.</p> <p style="padding-left: 40px;">*CURLIB The output queue is in the job's current library.</p> <p style="padding-left: 40px;"><i>Library-name</i> Enter a valid library name.</p>
------------	---

- JOB:** Specifies the qualified job of the spooled files to move. This parameter contains three elements.
- Job name:** Specifies the name of the job that created the spooled file.
- Job-name* Enter a valid job name.
- User:** Specifies the name of the user that created the spooled file.
- User-name* Enter a valid user name.
- Number:** Specifies the job number of the job that created the spooled file.
- 000000-999999* Enter a valid job number.
- SPLNBR:** Specifies the number of the job's spooled file to move.
- *ONLY** Only one spooled file in the job has the specified file name; therefore, the number of the spooled file is not necessary.
- *LAST** The last spooled file in the job has the specified file name; therefore, the number of the spooled file is not necessary.
- Spooled-file-number* Enter the number of the spooled file.
- SELECT:** Specifies which group of spooled files should be selected to move. Six positional values can be specified to select the files: the user that created the file, the device that the file is queued for, the form type specified or the user data tag associated with the file. Only files that meet each of the values are selected.
- User:** Specifies the user of the spooled files to select.
- *CURRENT** Only files created by the user running this command are selected.
- *ALL** Files created by all users are selected.
- User-name* Enter the user whose spooled files to select.
- Print device:** Specifies the print device of the spooled files to select.
- *ALL** Files on any device created or user created output queue are selected.
- Device-name* Enter a device name. Only files on the device created output queue for that device are selected. A device created output queue is one that has the same name as a device and resides in the **QUSRSYS** library.

Form type: Specifies the form type of the spooled files to select.

***ALL** All form types are selected.

*STD Only files that specify the standard form type are selected.

Form-type Enter the form type to select.

User data: Specifies the user data of the spooled files to select.

***ALL** Files with any user data tag specified are selected.

User-data Enter the user data of the spooled files to select.

STATUS: Specifies the status of the spooled files to move.

***ALL** All spooled files are selected.

*READY Only files in *READY status are selected.

*HELD Only files in *HELD status are selected.

*SAVED Only files in *SAVED status are selected.

PERIOD: Specifies the period of time of the spooled files to move. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after which spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

*CURRENT The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

***CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Examples

```
MOVSPLF FILE(*SELECT) TOOUTQ(*LIBL/QPRINT) +
SELECT(*CURRENT **ALL *ALL *ALL)
```

In this example, all spooled files for the current user are moved to output queue QPRINT.

RSTOUTQ – Restore Output Queue

Restore Output Queue (RSTOUTQ)		Environment: B/I
Device name	_____	Name
Saved output queue	_____	Name, *ALL
Library	<u>*LIBL</u>	Name
Volume identifier	<u>*MOUNTED</u>	Char, *MOUNTED
Sequence number	<u>*SEARCH</u>	1-16777215, *SEARCH
End of tape option	<u>*REWIND</u>	*REWIND, *LEAVE, *UNLOAD
System	<u>*LCL</u>	Name, *LCL
Restore to output queue	<u>*SAVOUTQ</u>	Name, *SAVOUTQ
Library	_____	Name, *LIBL, *CURLIB

Purpose

The Restore Output Queue (RSTOUTQ) command restores the contents of a saved output queue to either the same output queue or any other valid output queue. One of the following authority requirements must exist in order to restore a saved spool file.

- The requester is the creator of the file.
- The requester has ***READ** authority to the output queue on which the file resides, and **DSPDTA(*YES)** was specified on the **CRTOUTQ** command.
- The requester has ***SPLCTL** special authority. If the output queue that was saved does not exist on the system, the requester must have ***SPLCTL** authority.
- The requester has ***JOBCTL** special authority and the output queue on which the file resides has **OPRCTL(*YES)** specified on the **CRTOUTQ** command.
- The output queue has **DSPDTA(*YES)** specified on the **CRTOUTQ** command.
- The requester has owner authority to the output queue on which the file resides and the queue has **AUTCHK(*OWNER)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.
- The requester has ***READ**, ***ADD** and ***DELETE** authority to the output queue on which the file resides and the queue has **AUTCHK(*DTAAUT)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.
- Spooled files that contain zero pages are not restored, but they are included in the count of restored spool since the header was saved.

Parameters

DEV: Specifies the names of the tape devices to use during the restore process.
Device-name Enter a valid device name.

- SAVOUTQ: Specifies the name and library of the output queue where the saved spooled files reside.
- Output queue:
- *ALL All saved output queues are selected. **Note:** *All output queues that were saved at one time will be selected starting from the sequence number specified.*
- Output-queue* Enter the name of the output queue.
- Library:
- Library-name* Enter a valid library name.
- VOL: Specifies the volume identifiers to use for the restore process.
- *MOUNTED** The mounted volume is used.
- Volume-id* Enter a valid volume identifier.
- SEQNBR: Specifies the starting sequence number to use for the restore. **Note:** *If SAVOUTQ(*ALL) is specified, all output queues saved from the sequence number specified in this parameter to the last sequence number associated with the SAVOUTQ are restored.*
- *SEARCH** The data in the volume is searched for the specified output queue starting from the first sequence.
- 1-16777215* Enter the sequence number.
- ENDOPT: Specifies the positioning operation performed on the tape after the restore completes.
- *REWIND** The tape is automatically rewound, but not unloaded.
- *LEAVE The tape does not rewind or unload. It remains at the current position on the tape drive.
- *UNLOAD The tape is automatically rewound and unloaded.
- SYSTEM: Specifies the system on which the spooled files were saved.
- *LCL** The spooled files were saved on the local system.
- System-name* Enter a valid system name.

RSTOUTQ: Specifies the output queue and library in which to restore the saved spooled files. When restoring spooled files from a saved output queue that no longer exists on the system, the library of the saved output queue must be specified and an existing output queue must be specified on this parameter.

Output queue:

***SAVOUTQ** The spooled files are restored into the original output queue or an output queue with the same name and library as the save queue and library. **Note:** If *SAVOUTQ(*ALL)* is specified, *RSTOUTQ(*SAVOUTQ)* must be specified.

Output-queue Enter the name of the output queue.

Library:

*LIBL The output queue is in the current job's library list.

*CURLIB The output queue is in the job's current library.

Library-name Enter a valid library name.

Examples

```
RSTOUTQ DEV(TAP01) SAVOUTQ(QGPL/QPRINT) VOL(011001) SEQNBR(5) +  
ENDOPT(*UNLOAD) RSTOUTQ(QGPL/QPRINTSAV)
```

This restores the spooled files from saved output queue QPRINT to output queue QPRINTSAV in QGPL. The restore uses tape 011001 and starts the restore at sequence number 5.

RSTSPLF - Restore Spooled File

Restore Spooled File (RSTSPLF)		Environment: B/I
Device name	_____	Name
Spooled file	_____	Name, generic, *ALL
Saved output queue	_____	Name
Library	<u>*LIBL</u>	Name
User profile	<u>*ALL</u>	Name, *ALL, *CURRENT
Time period selection:		
Starting date and time:		
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN
Starting time	<u>*AVAIL</u>	Time, *AVAIL
Ending date and time:		
Ending date	<u>*CURRENT</u>	Date, *CURRENT, *END
Ending time	<u>*AVAIL</u>	Time, *AVAIL
Volume identifier	<u>*MOUNTED</u>	Char, *MOUNTED
Sequence number	<u>*SEARCH</u>	1-16777215, *SEARCH
End of tape option	<u>*REWIND</u>	*REWIND, *LEAVE, *UNLOAD
System	<u>*LCL</u>	Name, *LCL
Job name	_____	Name
User	_____	Name
Number	_____	000000-999999
Spooled file number	_____	1-9999
Restore to output queue	<u>*SAVOUTQ</u>	Name, *SAVOUTQ
Library	_____	Name, *LIBL, *CURLIB

Purpose

The Restore Spooled File (RSTSPLF) command restores one or more spooled files to either the same output queue or any other valid output queue. One of the following authority requirements must exist in order to restore a saved spool file.

- The requester is the creator of the file.
- The requester has ***READ** authority to the output queue on which the file resides, and **DSPDTA(*YES)** was specified on the **CRTOUTQ** command.
- The requester has ***SPLCTL** special authority. If the output queue that was saved does not exist on the system, the requester must have ***SPLCTL** authority.
- The requester has ***JOBCTL** special authority and the output queue on which the file resides has **OPRCTL(*YES)** specified on the **CRTOUTQ** command.
- The output queue has **DSPDTA(*YES)** specified on the **CRTOUTQ** command.
- The requester has owner authority to the output queue on which the file resides and the queue has **AUTCHK(*OWNER)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.
- The requester has ***READ**, ***ADD** and ***DELETE** authority to the output queue on which the file resides and the queue has **AUTCHK(*DTAAUT)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.
- Spooled files that contain zero pages are not restored, but they are included in the count of restored spool since the header was saved.

Parameters

DEV: Specifies the names of the tape devices to use during the restore process.
Device-name Enter a valid device name.

FILE: Specifies the name of the spooled file to restore.

***ALL** All spooled files are selected.

generic* Enter the generic name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).

Spooled-file-name Enter a spooled file name.

SAVOUTQ: Specifies the name and library of the output queue where the saved spooled files reside.

Output queue:

Output-queue Enter the name of the output queue.

Library:

Library-name Enter a valid library name.

USRPRF: Specifies the name of the user profile that created the spooled files to restore.

***ALL** All spooled files are restored.

User-profile Enter a valid user profile name.

PERIOD: Specifies the period of time of the spooled files to copy. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

***CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

- Ending date:** One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.
- *CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.
 - End-date* Enter the ending date for which spooled files are selected. The date must be specified in the job date format.
- Ending time:** One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.
- *AVAIL** The spooled files that are available for the specified ending date are selected.
 - End-time* Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.
- VOL:** Specifies the volume identifiers to use for the restore process.
- *MOUNTED** The mounted volume is used.
 - Volume-id* Enter a valid volume identifier.
- SEQNBR:** Specifies the starting sequence number to use for the restore. **Note:** *If SAVOUTQ(*ALL) is specified, all output queues saved from the sequence number specified in this parameter to the last sequence number associated with the SAVOUTQ are restored.*
- *SEARCH** The data in the volume is searched for the specified output queue starting from the first sequence.
 - 1-16777215 Enter the sequence number.
- ENDOPT:** Specifies the positioning operation performed on the tape after the restore completes.
- *REWIND** The tape is automatically rewound, but not unloaded.
 - *LEAVE** The tape does not rewind or unload. It remains at the current position on the tape drive.
 - *UNLOAD** The tape is automatically rewound and unloaded.
- SYSTEM:** Specifies the system on which the spooled files were saved.
- *LCL** The spooled files were saved on the local system.
 - System-name* Enter a valid system name.

JOB: Specifies the qualified job of the spooled files to restore. This parameter contains three elements.

Job name: Specifies the name of the job that created the spooled file.
Job-name Enter a valid job name.

User: Specifies the name of the user that created the spooled file.
User-name Enter a valid user name.

Number: Specifies the job number of the job that created the spooled file.
000000-999999 Enter a valid job number.

SPLNBR: Specifies the number of the saved job's spooled file to restore.
Spooled-file-number Enter the number of the saved spooled file.

RSTOUTQ: Specifies the output queue and library in which to restore the saved spooled files. When restoring spooled files from a saved output queue that no longer exists on the system, the library of the saved output queue must be specified and an existing output queue must be specified on this parameter.

Output queue:

***SAVOUTQ** The spooled files are restored into the original output queue or an output queue with the same name and library as the save queue and library.

Output-queue Enter the name of the output queue.

Library:

***LIBL** The output queue is in the current job's library list.

***CURLIB** The output queue is in the job's current library.

Library-name Enter a valid library name.

Examples

```
RSTSPLF DEV(TAP01) FILE(Q*) SAVOUTQ(QPRINT) VOL(011001) SEQNBR(5) +
      ENDOPT(*UNLOAD) RSTOUTQ(QGPL/QPRINTSAV)
```

This restores all spooled files that start with the letter "Q" from saved output queue QPRINT to output queue QPRINTSAV in QGPL. The restore uses tape 011001 and starts the restore at sequence number 5.

SAVOUTQ - Save Output Queue

Save Output Queue (SAVOUTQ)		Environment: B/I
Device name	_____	Name
Output queue	_____	Name, *ALL
Library	<u>*LIBL</u>	Name, *ALL, *LIBL, *CURLIB
+ for more values	_____	
	<u>*LIBL</u>	
Time period selection:		
Starting date and time:		
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN
Starting time	<u>*AVAIL</u>	Time, *AVAIL
Ending date and time:		
Ending date	<u>*CURRENT</u>	Date, *CURRENT, *END
Ending time	<u>*AVAIL</u>	Time, *AVAIL
Maximum days on queue	<u>*NOMAX</u>	0-3650, *NOMAX
Delete spooled files	<u>*NO</u>	*NO, *YES
Omit output queue	_____	Name
Library	<u>*LIBL</u>	Name
+ for more values	_____	
	<u>*LIBL</u>	
Volume identifier	<u>*MOUNTED</u>	Char, *MOUNTED
Sequence number	<u>*END</u>	1-16777215, *END
Label	<u>*OUTQ</u>	*OUTQ, *LIB
File expiration date	<u>*PERM</u>	Date, *PERM
End of tape option	<u>*REWIND</u>	*REWIND, *LEAVE, *UNLOAD
Output	<u>*NONE</u>	*NONE, *PRINT
Job label	<u>*NONE</u>	Name, *NONE

Purpose

The Save Output Queue (SAVOUTQ) command saves up to 300 output queues to tape.

Parameters

DEV: Specifies the names of the tape devices to use during the save process.
Device-name Enter a valid device name.

OUTQ: Specifies the name and library of the output queue where the output queue to save resides. Up to 300 output queues can be specified.

Output queue:

*ALL	All output queues in the current job's library list.
<i>Output-queue</i>	Enter the name of the output queue.

Library:

*LIBL	The job's library list is searched for the specified output queue.
*ALL	All libraries are searched for the specified output queue.
*CURLIB	The job's current library is searched for the specified output queue.
<i>Library-name</i>	Enter a valid library name.

PERIOD: Specifies the period of time of the spooled files to copy. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

***CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

***CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

MAXDAY: Specifies the maximum number of days that the spooled file has been on the specified output queue.

***NOMAX** All spooled files are selected.

1-3650 Enter the maximum days.

DLTSPLF: Specifies if saved spooled files are deleted.

***NO** The spooled files are not deleted.

*YES The spooled files are deleted.

OMITOUTQ: Specifies the name and library of the output queue to omit during the save process. Up to 300 output queues can be specified.

Output queue:

Output-queue Enter the name of the output queue.

Library:

***LIBL** The output queue is in the current job's library list.

*CURLIB The output queue is in the job's current library.

Library-name Enter a valid library name.

VOL: Specifies the volume identifiers to use for the save process.

***MOUNTED** The mounted volume is used.

Volume-id Enter a valid volume identifier.

SEQNBR: Specifies the sequence number where the output queue is saved.

***END** The save begins at the last available sequence number.

1-16777215 Enter the sequence number.

LABEL: Specifies the data file label to use on the tape.

***OUTQ** The output queue name is used.

*LIB The name of the library that contains the output queue being copied is used.

EXPDATE: Specifies when the volume expires. The value ***PERM** must be used if a job label is specified in the **JOBLBL** parameter.

***PERM** The volume has a permanent retention. The volume will not expire.

Expiration-date Enter a valid expiration date. The expiration date must be greater than the save date.

- ENDOPT: Specifies the positioning operation performed on the tape after the save completes.
- *REWIND** The tape is automatically rewound, but not unloaded.
 - *LEAVE The tape does not rewind or unload. It remains at the current position on the tape drive.
 - *UNLOAD The tape is automatically rewound and unloaded.
- OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
- *NONE** No output is created.
 - *PRINT The output is printed with the job's spooled output.
- JOBLBL: Specifies the name of the LXI tape management job label to be used. The job label establishes retention for the volumes used. If a tape job label is specified, it is verified. This value is ignored if LXI tape management is not installed.
- *NONE** No tape job label is used.
 - Label* Enter a valid LXI tape job label.

Examples

```
SAVOUTQ OUTQ(*LIBL/QPRINT *LIBL/QPRINT2) DLTSPLF(*NO) +
VOL(*MOUNTED) SEQNBR(1) ENDOPT(*UNLOAD)
```

This saves output queues QPRINT and QPRINT2 to tape. The spooled files within the output queues are not deleted.

SAVSPLF – Save Spooled File

Save Spooled File (SAVSPLF)	Environment: B/I
Device name	Name
Spooled file <u>*ALL</u>	Name, generic, *ALL
Output queue	Name, *ALL
Library	Name, *ALL, *LIBL, *CURLIB
User profile	Name, *ALL, *CURRENT
Print device	Name, *ALL
Form type	Form type, *ALL, *STD
User data	User data, *ALL
Spooled file status	*ALL, *READY, *HELD, *SAVED
Time period selection:	
Starting date and time:	
Starting date	Date, *CURRENT, *BEGIN
Starting time	Time, *AVAIL
Ending date and time:	
Ending date	Date, *CURRENT, *END
Ending time	Time, *AVAIL
Maximum days on queue	0-3650, *NOMAX
Delete spooled files	*NO, *YES
Omit output queue	Name
Library	Name, *LIBL, *CURLIB
+ for more values	
.....	<u>*LIBL</u>
Volume identifier	Char, *MOUNTED
Sequence number	1-16777215, *END
Label	*OUTQ, *LIB
File expiration date	Date, *PERM
End of tape option	*REWIND, *LEAVE, *UNLOAD
Output	*NONE, *PRINT
Job label	Name, *NONE
Job name	Name
User	Name
Number	000000-999999
Spooled file number	1-9999, *ALL

Purpose	The Save Spooled File (SAVSPLF) command saves one or more spooled files to tape. The selection criteria provides the ability to select spooled files based on generic or full spooled file name, output queue, user profile, days on the queue and date/time requirements.
---------	--

Parameters	<p>DEV: Specifies the names of the tape devices to use during the save process.</p> <p style="margin-left: 40px;"><i>Device-name</i> Enter a valid device name.</p> <p>FILE: Specifies the name of the spooled file to save.</p> <p style="margin-left: 40px;">*ALL All spooled files are selected.</p> <p style="margin-left: 40px;">generic* Enter the generic name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).</p> <p style="margin-left: 40px;"><i>Spooled-file-name</i> Enter a spooled file name.</p>
------------	---

- OUTQ: Specifies the name and library of the output queue where the spooled files reside.
- Output queue:
- *ALL All output queues in the specified libraries are selected.
 - Output-queue* Enter the name of the output queue.
- Library:
- *LIBL** The job's library list is searched for the specified output queues.
 - *ALL All libraries are searched for the specified output queues.
 - *CURLIB The job's current library is searched for the specified output queues.
 - Library-name* Enter a valid library name.
- USRPRF: Specifies the name of the user profile that created the spooled files to save.
- *ALL** All spooled files are selected.
 - User-profile* Enter a valid user profile name.
- PRTDEV: Specifies the name of the print device of the spooled files to save.
- *ALL** All spooled files are selected.
 - Print-device* Enter a valid print device.
- FORMTYPE: Specifies the name of the form type of the spooled files to save.
- *ALL** All spooled files are selected.
 - *STD Only files that specify the standard form type are selected.
 - Form-type* Enter a valid form type.
- USRDATA: Specifies the user data of the spooled files to save.
- *ALL** All spooled files are selected.
 - User-data* Enter the user data.
- STATUS: Specifies the status of the spooled files to save.
- *ALL** All spooled files are selected.
 - *READY Only files in *READY status are selected.
 - *HELD Only files in *HELD status are selected.
 - *SAVED Only files in *SAVED status are selected.

PERIOD: Specifies the period of time of the spooled files to save. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after which spooled files must be created. Any spooled files created before the specified date are not selected.

- *BEGIN** The spooled files from the beginning date are selected.
- *CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

- *AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

- *CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

- *AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

- MAXDAY: Specifies the maximum number of days that the spooled file has been on the specified output queue.
- *NOMAX** All spooled files are selected.
- 1-3650* Enter the maximum days.
- DLTSPLF: Specifies if saved spooled files are deleted.
- *NO** The spooled files are not deleted.
- *YES** The spooled files are deleted.
- OMITOUTQ: Specifies the name and library of the output queue to omit during the save process. Up to 300 output queues can be specified.
- Output queue:
- Output-queue* Enter the name of the output queue.
- Library:
- *LIBL** The output queue is in the current job's library list.
- *CURLIB** The output queue is in the job's current library.
- Library-name* Enter a valid library name.
- VOL: Specifies the volume identifiers to use for the save process.
- *MOUNTED** The mounted volume is used.
- Volume-id* Enter a valid volume identifier.
- SEQNBR: Specifies the sequence number where the saved spooled file is saved.
- *END** The save begins at the last available sequence number.
- 1-16777215* Enter the sequence number.
- LABEL: Specifies the data file label to use on the tape.
- *OUTQ** The output queue name is used.
- *LIB** The name of the library that contains the output queue being saved is used.
- EXPDATE: Specifies when the volume expires. The value ***PERM** must be used if a job label is specified in the **JOBLBL** parameter.
- *PERM** The volume has a permanent retention. The volume will not expire.
- Expiration-date* Enter a valid expiration date. The expiration date must be greater than the save date.

ENDOPT: Specifies the positioning operation performed on the tape after the save completes.

- *REWIND** The tape is automatically rewound, but not unloaded.
- *LEAVE The tape does not rewind or unload. It remains at the current position on the tape drive.
- *UNLOAD The tape is automatically rewound and unloaded.

OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.

- *NONE** No output is created.
- *PRINT The output is printed with the job's spooled output.

JOBLBL: Specifies the name of the LXI tape management job label to be used. The job label establishes retention for the volumes used. If a tape job label is specified, it is verified. This value is ignored if LXI tape management is not installed.

- *NONE** No tape job label is used.
- Label* Enter a valid LXI tape job label.

JOB: Specifies the qualified job of the spooled files to save. This parameter contains three elements.

Job name: Specifies the name of the job that created the spooled file.

- Job-name* Enter a valid job name.

User: Specifies the name of the user that created the spooled file.

- User-name* Enter a valid user name.

Number: Specifies the job number of the job that created the spooled file.

- 000000-999999* Enter a valid job number.

SPLNBR: Specifies the number of the job's spooled file to save.

- *ALL** All spooled files are saved.
- Spooled-file-number* Enter the number of the spooled file.

Examples

```
SAVSPLF DEV(TAP01) OUTQ(QPRINT) MAXDAY(10) DLTSPLF(*YES) +  
SEQNBR(1) ENDOPT(*UNLOAD)
```

In this example, all spooled files in output queue QPRINT, which have been on the queue for 10 days or more are saved and deleted.

```
SAVSPLF DEV(TAP01) OUTQ(QPRINT) PERIOD((050105) (060105)) +  
DLTSPLF(*YES) SEQNBR(1) ENDOPT(*UNLOAD)
```

In this example, all spooled files in output queue QPRINT, which were created between May 1, 2005 and June 1, 2005, are saved and deleted.

SNDSPLF – Send Spooled File

Send Spooled File (SNDSPLF)		Environment: B/I
Spooled file	_____	Name, generic*, *ALL
User ID:		
User ID	_____	Char, *USRPRF
Address	_____	Char
Output queue	_____	Name
Library	<u>*LIBL</u>	Name, *LIBL, *CURLIB
Job name	<u>*ALL</u>	Name, generic*, *ALL
User profile	<u>*CURRENT</u>	Name, *ALL, *CURRENT
Spooled file wait time	<u>*IMMED</u>	Seconds, *NOMAX, *IMMED
Data format	<u>*RCDDATA</u>	*RCDDATA, *ALLDATA
VM/MVS class	<u>A</u>	A, B, C, D, E, F, G, H, I...
Send priority	<u>*NORMAL</u>	*NORMAL, *HIGH

Purpose

The Send Spooled File (SNDSPLF) command sends a spooled file to another user on the local system or on a remote system on the SNADS network. The file is placed on the output queue specified in the use profile of the user to whom the spooled file is sent. When the file arrives at the destination system, a message is sent to both the recipient and sending user.

The user must be enrolled in the system distribution directory to run this command. The sender must have read, add and delete authority to the receiving output queue when sending to users on the same system.

One of the following must be true:

- The requester is the creator of the file.
- The requester has ***READ** authority to the output queue on which the file resides, and **DSPDTA(*YES)** was specified on the **CRTOUTQ** command.
- The requester has ***SPLCTL** special authority.
- The requester has ***JOBCTL** special authority and the output queue on which the file resides has **OPRCTL(*YES)** specified on the **CRTOUTQ** command.
- The output queue has **DSPDTA(*YES)** specified on the **CRTOUTQ** command.
- The requester has owner authority to the output queue on which the file resides and the queue has **AUTCHK(*OWNER)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.
- The requester has ***READ**, ***ADD** and ***DELETE** authority to the output queue on which the file resides and the queue has **AUTCHK(*DTAAUT)** and **DSPDTA(*YES)** or **DSPDTA(*NO)** specified on the **CRTOUTQ** command.

Parameters

FILE:	Specifies the name of the spooled file to send.
*ALL	All spooled files are selected.
generic*	Enter the generic name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).
<i>Spooled-file-name</i>	Enter a spooled file name.

USER ID: Specifies the two-part user ID of one or more users to whom the file is being sent. Each user ID is specified as a two-part name and both parts are required. The users in the distribution list may be remote or local. Up to 300 addresses can be specified. **Note:** *Depending on the type of workstation being used, the internal value for a user ID may differ from the characters shown by the **DSPDIRE** command. If the byte-string value specified for the **TOUSRID** parameter does not match the rules for an internal user ID value, or if it does not match the internal value for any enrolled user, an error may be reported.*

User: Specifies the user ID of the recipient.

***USRPRF** The user profile name is used.

User-name Enter a valid user name.

Address: Specifies the address of the recipient.

Address Enter a valid address.

OUTQ: Specifies the name and library of the output queue to monitor for spooled files.

Output queue:

Output-queue Enter the name of the output queue.

Library:

***LIBL** The output queue is in the current job's library list.

***CURLIB** The output queue is in the job's current library.

Library-name Enter a valid library name.

JOB: Specifies the job name of the spooled files to send.

***ALL** All spooled files are selected.

*generic** Enter the generic job name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).

User-profile Enter a valid job name.

USRPRF: Specifies the name of the user profile that created the spooled files to send. Up to 300 user profiles can be specified.

***CURRENT** Only files created by the user running this command are selected.

***ALL** All spooled files are selected.

User-profile Enter a valid user profile name.

WAITFILE: Specifies the how long to wait for the arrival of spooled files in the specified output queue.

<u>*IMMED</u>	The process ends after the last spooled file has been sent.
*NOMAX	The process waits indefinitely for new spooled files to send.
<i>Wait-time</i>	Enter the number of seconds to wait.

DTAFMT: Specifies the format in which to transmit the spooled file. Spooled files that contain special device requirements cannot be sent using this command if ***RCDDTA** is specified on the Data format prompt (**DTAFMT** parameter).

The device requirements are listed as part of the attributes for the spooled file. To view the device requirements, use the **WRKSPLFA** command or the attributes option on the **WRKSPLF** command. If any of the device requirements are attributes of the file (if any of the device requirements on the display have a “Y”), the spooled file cannot be sent. Either specify **DTAFMT(*ALLDATA)** or copy the spooled file to a database file using the Copy Spooled File (**CPYSPLF**) command and then use the Send Network File (**SNDNETF**) command to send the file as a data file.

If ***RCDDATA** is specified on the Data format prompt (**DTAFMT** parameter), the following attributes of the spooled file are kept:

File name Form type Page width
 Number of Copies IGC data indicator Page rotation
 Characters per Inch Lines per inch Font name
 Drawer Page length Print text

***RCDDATA** The spooled file is the existing lower function format. Some functions will be removed from data that is sent in this format because the format does not support advanced functions. Use this format when sending spooled files to a System/36, System/38 or a System/370.

***ALLDATA** The spooled file is sent as it exists, without loss of attributes. All spooled file attributes required to reproduce the file on the receiving system are also sent. Use the ***ALLDATA** value to send spooled files to **V3R1M0** or later of the iSeries system.

If a file is printed on the receiving system, it must be printed on the same type of printer as it was intended to be printed on the source system.

Spooled files that require advanced function printing (AFP) resources may print differently on the receiving system. To assure that spool files printed in the same manner, the following must occur:

Before using this command to send a file to a different user or system, make sure that the libraries containing the non-IBM supplied AFP resources are in the initial library list of the user receiving the spooled files.

Use this format to send ***LINE**, ***AFPDS** and ***AFPDSLINE** printer type device files to the System/370.

CLASS:	Specifies the VM/MVS SYSOUT class for distributions sent to a VM host system or to an MVS host system.
	<u>A</u> The class is A.
	<i>Class</i> Enter the distribution class. Valid values range from A through Z and 0 through 9.
PTY:	Specifies the queuing priority used for this spooled file when it is being routed through a SNADS network.
	<u>*NORMAL</u> The spooled file is sent with a service level priority of data low, which is used for most data traffic. On an iSeries system, data low distributions are placed on the normal distribution queue specified for the route.
	*HIGH The spooled file is sent with a service level priority of data high, which is used for high priority data traffic. On an iSeries system, data high distributions are placed on the data high distribution queue specified for the route.

Examples

```
SNDSPLF FILE(*ALL) TOUSRID((QSYSOPR S112233)) OUTQ(QPRINT) +
      JOB(*ALL) USRPRF(*ALL) WAITFILE(*IMMED)
```

In this example, all spooled files in output queue QPRINT, are sent to user-id QSYSOPR on system S112233. After all spooled files have been sent, the command ends.

```
SNDSPLF FILE(*ALL) TOUSRID((QSYSOPR S112233)) OUTQ(QPRINT) +
      JOB(*ALL) USRPRF(*ALL) WAITFILE(*NOMAX)
```

In this example, all spooled files in output queue QPRINT, are sent to user-id QSYSOPR on system S112233. After all spooled files have been sent, the command waits indefinitely for more spooled files to arrive in the queue.

WRKOUTQ – Work with Output Queue

Work with Output Queue (WRKOUTQ)		Environment: B/I
Output queue	<u>*ALL</u>	Name, generic*, *ALL
Library	_____	Name, *LIBL, *CURLIB, *ALL
Output	<u>*</u>	*, *PRINT

Purpose

The Work with Output Queue (WRKOUTQ) command lists all or specific output queues.

Parameters

OUTQ: Specifies the name and library of the output queue to display.

Output queue:

***ALL** All output queues are selected.

generic* Enter the generic name of the output queue to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).

Output-queue Enter the name of the output queue.

Library:

***ALL** All libraries in the system, including QSYS, are searched.

***LIBL** The output queue is in the current job's library list.

***CURLIB** The output queue is in the job's current library.

Library-name Enter a valid library name.

OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.

***** The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).

***PRINT** The output is printed with the job's spooled output.

Examples

WRKOUTQ OUTQ(Q*)

This lists all output queues in the library list that start with the letter "Q".

WRKSAVOUTQ - Work with Saved Output Queues

Work with Saved Output Queues (WRKSAVOUTQ) Environment: B/I

Output queue	<u>*ALL</u>	Name, generic*, *ALL
Library	<u>*ALL</u>	Name, *ALL
Volume identifier	<u>*ALL</u>	Char, *ALL
Time period selection:		
Starting date and time:		
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN
Starting time	<u>*AVAIL</u>	Time, *AVAIL
Ending date and time:		
Ending date	<u>*CURRENT</u>	Date, *CURRENT
Ending time	<u>*AVAIL</u>	Time, *AVAIL
System	<u>*LCL</u>	Name, *LCL
Output	<u>-</u>	*, *PRINT

Purpose

The Work with Saved Output Queues (WRKSAVOUTQ) command lists all or specific saved output queues.

Parameters

OUTQ: Specifies the name and library of the saved output queue to display.

Output queue:

<u>*ALL</u>	All saved output queues are selected.
generic*	Enter the generic name of the saved output queue to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).
<i>Output-queue</i>	Enter the name of the output queue.

Library:

<u>*ALL</u>	All libraries whose output queues have been saved are selected.
<i>Library-name</i>	Enter a valid library name.

VOL: Specifies the volume identifier that identifies where the output queue was saved.

<u>*ALL</u>	All volumes that contain saved output queues are selected.
<i>Volume-id</i>	Enter a valid volume identifier.

PERIOD: Specifies the period of time of the spooled files to display. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

***CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

***CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

- SYSTEM: Specifies the system on which the spooled files were saved.
- *LCL** The spooled files were saved on the local system.
 - System-name* Enter a valid system name.
- OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
- *** The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).
 - *PRINT** The output is printed with the job's spooled output.

Examples

```
WRKSAVOUTQ OUTQ(Q*) PERIOD((050105) (060105))
```

This lists all saved output queues that start with the letter "Q" and were saved between May 1, 2005 and June 1, 2005.

WRKSAVSPL – Work with Saved Spool

Work with Saved Spool (WRKSAVSPL)		Environment: B/I
Spooled file	<u>*ALL</u>	Name, generic*, *ALL
Job name	<u>*ALL</u>	Name, generic*, *ALL
User	_____	Name
Number	_____	000000-999999
Spooled file number	<u>*ALL</u>	1-9999, *ALL
Time period selection:		
Starting date and time:		
Starting date	<u>*BEGIN</u>	Date, *CURRENT, *BEGIN
Starting time	<u>*AVAIL</u>	Time, *AVAIL
Ending date and time:		
Ending date	<u>*CURRENT</u>	Date, *CURRENT
Ending time	<u>*AVAIL</u>	Time, *AVAIL
System	<u>*LCL</u>	Name, *LCL
User profile	<u>*ALL</u>	Name, *ALL, *CURRENT
Volume identifier	<u>*ALL</u>	Char, *ALL
Sequence number	<u>*ALL</u>	1-16777215, *ALL
Output	<u>*</u>	*, *PRINT

Purpose

The Work with Saved Spool (WRKSAVSPL) command lists all or specific saved spool files.

Parameters

FILE: Specifies the name of the spooled file to display.

*ALL All spooled files are selected.

generic* Enter the generic name of the spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).

Spooled-file-name Enter a spooled file name.

- JOB:** Specifies the qualified job of the spooled files to display. This parameter contains three elements.
- Job name: Specifies the name of the job that created the spooled file.
- *ALL** All job names are selected.
 - generic*** Enter the generic job name of the saved spooled files to select. A generic name is a character string that contains one or more characters followed by an asterisk (*).
 - Job-name* Enter a valid job name.
- User: Specifies the name of the user that created the spooled file.
- User-name* Enter a valid user name.
- Number: Specifies the job number of the job that created the spooled file.
- Job-number* Enter a valid job number.
- SPLNBR:** Specifies the number of the job's spooled file to select.
- *ALL** All spooled files are selected.
 - Spooled-file-number* Enter the number of the spooled file.

PERIOD: Specifies the period of time of the spooled files to display. This parameter contains two lists of two elements each.

Starting date: One of the following is used to specify the starting date on which or after spooled files must be created. Any spooled files created before the specified date are not selected.

***BEGIN** The spooled files from the beginning date are selected.

***CURRENT** The spooled files for the current day and between the specified starting and ending times (if specified) are selected.

Begin-date Enter the beginning date. The date must be specified in the job date format.

Starting time: One of the following is used to specify the starting time at which or after which the spooled files must have been created. Any spooled files created before the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified beginning date are selected.

Begin-time Enter the beginning time for the specified beginning date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

Ending date: One of the following is used to specify the ending date before which or on which the spooled files must have been created. Any spooled files created after the specified date are not selected.

***CURRENT** The last day on which spooled files were created is the last day for which spooled files are selected.

End-date Enter the ending date for which spooled files are selected. The date must be specified in the job date format.

Ending time: One of the following is used to specify the ending time before which the spooled files must be created. Any spooled files created after the specified time and date are not selected.

***AVAIL** The spooled files that are available for the specified ending date are selected.

End-time Enter the ending time for the specified ending date that determines the spooled files to select. The time is specified in 24-hour format and can be specified with or without a time separator.

- SYSTEM: Specifies the system on which the spooled files were saved.
- *LCL** The spooled files were saved on the local system.
 - System-name* Enter a valid system name.
- USRPRF: Specifies the name of the user profile that created the spooled files to select.
- *ALL** All spooled files are selected.
 - *CURRENT** Only spooled files created by the user running this command are selected.
 - User-profile* Enter a valid user profile name.
- VOL: Specifies the volume identifier that identifies where the spooled file was saved.
- *ALL** All volumes that contain saved spooled files are selected.
 - Volume-id* Enter a valid volume identifier.
- SEQNBR: Specifies the sequence number where the saved spooled file was saved.
- *ALL** All sequences are selected.
 - 1-16777215 Enter the sequence number.
- OUTPUT: Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
- *** The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).
 - *PRINT** The output is printed with the job's spooled output.

Examples

```
WRKSAVSPL FILE(Q*) PERIOD((050105) (060105))
```

This lists all saved spool files that start with the letter "Q" and were saved between May 1, 2005 and June 1, 2005.

WRKSPLF – Work with Spooled Files

Work with Spooled Files (WRKSPLF)

Environment: B/I

Select files for:

User	<u>*CURRENT</u>	Name, *ALL, *CURRENT
Print device	<u>*ALL</u>	Name, *ALL, *OUTQ
Form type	<u>*ALL</u>	Form type, *ALL, *STD
User data	<u>*ALL</u>	User data, *ALL
ASP	<u>*ALL</u>	1-16, *ALL
Output	<u>_</u>	*, *PRINT

Purpose

The Work with Spooled Files (WRKSPLF) command displays one or more spooled files based on selection criteria.

Parameters

SELECT: Specifies which group of spooled files should be selected for display. Four positional values can be specified to select the files: the user that created the file, the device that the file is queued for, the form type specified or the user data tag associated with the file. Only files that meet each of the values are selected.

User: Specifies the user of the spooled files to select.

***CURRENT** Only files created by the user running this command are selected.

*ALL Files created by all users are selected.

User-name Enter the user whose spooled files to select.

Print device: Specifies the print device of the spooled files to select.

***ALL** Files on any device created or user created output queue are selected.

*OUTQ All files on any user-created output queue are selected. A user-created output queue is any output queue that is not automatically created by a device. A user-created output queue does not generally have the same name as the device, but if it does, it does not reside in library **QUSRSYS**.

Device-name Enter a device name. Only files on the device created output queue for that device are selected. A device created output queue is one that has the same name as a device and resides in the **QUSRSYS** library.

<u>Form type:</u>	Specifies the form type of the spooled files to select.
<u>*ALL</u>	All form types are selected.
*STD	Only files that specify the standard form type are selected.
<i>Form-type</i>	Enter the form type to select.
<u>User data:</u>	Specifies the user data of the spooled files to select.
<u>*ALL</u>	Files with any user data tag specified are selected.
<i>User-data</i>	Enter the user data of the spooled files to select.
<u>ASP:</u>	Specifies the auxiliary storage pool of the spooled files to select.
<u>*ALL</u>	Files in all auxiliary storage pools are selected.
<i>1-16</i>	Enter the auxiliary storage pool of the spooled files to select.

OUTPUT:	Specifies whether the output from the command is displayed at the requesting workstation or printed with the job's spooled output.
<u>*</u>	The output is displayed (if requested by an interactive job) or printed with the job's spooled output (if requested by a batch job).
*PRINT	The output is printed with the job's spooled output.
<i>Output-queue</i>	Enter the name of the output queue.

Examples

WRKSPLF

In this example, all spooled files for the current user are displayed.

Chapter 8

Install/Uninstall Instructions

This chapter describes the install/uninstall processes. The installation of the MMS Spooled File Management is easy and only takes a few minutes to load and setup. Please read and follow these instructions carefully to avoid problems and assure trouble free product performance.

Install Process

The installation process loads/updates the product from CD to disk. To install, follow the instructions in the **Readme** text file provided on the CD. These instructions guide you through the installation process. If this is a first-time install, the installation process creates the following libraries on the system.

- LXI Base and Support Programs
- LXISPL MMS Spooled File Management Programs
- LXISPL400 MMS Spooled File Management Files

Upgrading OS/400

When upgrading from one OS/400 release to another, call LXI Corp. for update information.

Changing the iSeries

Moving this product from one iSeries to another or upgrading to a different iSeries model requires a new license key. Once the product moves to the new iSeries or the iSeries is upgraded to a different model, call LXI Corp. for a new license key. No install is required.

Uninstall Process

To remove MMS/*spl* from the system, perform the following:

1. ENDSBS QLXISPL *IMMED
2. DLTLICPGM LICPGM(**OLX0000**) OPTION(**85**)

Entering the License Key

The MMS Spooled File Management (MMS/*spl*) requires a valid license key in order to function. The license key is based on the serial number and model of the iSeries. To enter a license key, perform the following:

- ___ Step 1. **GO LXI/LXI**
- ___ Step 2. Tab to the **SETUP** option on the menu bar.
- ___ Step 3. Press **Enter** to view the options available.
- ___ Step 4. Select "**Work with license Info**" and press **Enter**.
- ___ Step 5. Select **Option 1** for feature **8500**.
- ___ Step 6. Enter the supplied license key.

Trial Period

The trial period is valid for a period of 30 days from the time the product is *first* used. In order for MMS/*spl* to continue performing archives after the 30-day trial period, a license key must be entered.

Permanent License Key

Once the software has been purchased and payment received by LXI Corp., a ***permanent license key*** will be issued. This permanent license key must be entered into the software to ensure that the product continues without interruption.

The license key remains valid unless the iSeries serial or model number changes. When a change occurs, you should notify LXI Corp. to get another license key.

Disaster Recovery Test

If this product is moved to another system from D/R testing, contact LXI Corp. for a temporary license key.

Chapter 9

Troubleshooting Guide

The purpose of this guide is to list commonly asked questions regarding the use of MMS Spooled File Management. Each question and answer is designed to resolve specific situations as quickly as possible. This guide should be the first place a user looks when encountering any type of function that does not appear to operate as expected. If, after reviewing this guide, a question still exists, contact LXI Product Support for assistance.

1. I entered the license key and MMS/*spl* says it's invalid.

The license key is date sensitive. If the evaluation time has elapsed, another license key is required. If you are entering a permanent license key, make sure that you entered the license key correctly. Additional information can be found in [Chapter 8, *Install/Uninstall Instructions*](#). If the code still does not work, call LXI Product Support.

2. I restored some spooled files and now the job attributes are incorrect.

Restored spooled files are associated with the job that restored the spooled files rather than the original jobs' attributes.

3. How can I remove volume and spooled file information from the database?

Reusing the volume that contains the spooled data will remove the records from the MMS/*spl* database.

4. I recently upgraded the OS/400 operating system and now I cannot restore spooled files.

MMS/*spl* uses the **QSYS/QSPCRTSP** API and the authority to this object may have changed to **PUBLIC(*EXCLUDE)**. Verify the authority for this object and grant authority as needed.

5. Can MMS/*spl* covert a spooled file to EBCDIC?

This is a function of OS/400. Refer to the IBM CPYSPLF command.

6. Can MMS/*spl* covert a spooled file to ASCII?

This is a function of OS/400. Refer to the IBM CPYTOSTMF command.

7. How do you start the QLXI subsystem?

Enter: **STRSBS LXI/QLXI**

MMS / SPL - SPOOLED FILE MANAGEMENT SYSTEM

Chapter 10

Electronic Software Support

Electronic Software Support (**ESS**) is a module within all LXI Corp. products that provides LXI Technical Support staff access to your system, upon your approval, to help isolate and resolve issues. This process helps ensure that your product is working correctly and performing to design standards.

Online support allows an LXI product technician to sign on to your system for diagnostic purposes. This method is beneficial when issues cannot be resolved easily. Online support requires that you provide LXI with a user profile, password and virtual device for system access.

Setting up ESS

Before using **ESS**, some initial setup must be performed. This setup includes defining any special characters or numbers that must be dialed prior to dialing the LXI Corp. Product Support number, determining the modem type and optionally defining the resource name and line speed. This setup only needs to be performed once or if the information changes.

To access the **ESS** main menu, type **GO LXI/ESS** on an OS/400 command line and press **Enter**.

Updating the Configuration Data

Select **Option 1** from the Setup pull-down menu. This displays the Configuration Data panel. This panel specifies the LXI Product Support phone number and the modem type parameter.

Do not alter the LXI Corp. phone number unless you need to add special characters in front of it for time delay or outside line purposes.

If an **external** modem is specified in the modem type parameter, press **Enter**. This displays two additional parameters which are the resource number of the line being used and the speed of the modem. Review and optionally change the information and press **Enter**.

If an **internal** modem is specified, press **Enter**.

```

Configuration Data
Type changes, press Enter.
Vendor name . . . . . LXI Corp.
Telephone number . . . . . 214-260-9002
Connection number . . . . . 9-972-556-2136
Modem type . . . . . *EXTERNAL
Line speed . . . . . 9600
Resource name . . . . . LIN041

F3=Exit  F9=Command line  F12=Cancel
Copyright LXI Corp. 1985, 2006

```

Requesting Online Support

To start online support, enter **Option 1** from the Electronic Software Support menu. This displays the Customer Information panel. Enter the required information and press **Enter**. To start the **ESS** online support process, press **F6**.

```
Setup  Help
-----
ESS      Electronic Software Support

Select one of the following:

    1. Start On-line Support

Selection or command
=> _____

F3=Exit F4=Prompt F9=Refresh F12=Cancel F14=Sta

QSECOFR      Customer Information      System: LXI#CORP
Type changes, press Enter.
Company name . . . . . LXI Corp.
Contact . . . . . Project Manager
Address . . . . . 1925 W. John Carpenter Fwy
                   Suite 485
City/State . . . . . Irving, TX
Country . . . . . USA
Zip code . . . . . 75063
Telephone number . . . . . 2142609002
Fax number . . . . . 2142609019

F3=Exit  F6=Connect  F9=Command line  F12=Cancel
Copyright LXI Corp. 1985, 2006
```

ESS Considerations

When using an external modem, **ESS** leaves the line varied on. Due to processing restrictions, **ESS** cannot vary the line off.

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