

SPOOL-A-MATIC

Version 1 Release 3 Modification 0
Enhancement Summary
Program Number 2A55-SAM

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Enhancements for Spool-A-Matic Version 1 Release 3 Modification 0

What's In This Section

This section provides information on Spool-a-Matic enhancements for the current release, notes any customer code implications, and describes where to find more information when applicable.

Spool Processing Enhanced

The bulk of enhancements for the new release involve a reworking of the internal processing of spooled file print data streams to position the product for future enhancements and more accurately emulate the print processing performed by OS/400. For the most part, the changes are transparent to you. However, since Spool-a-Matic now correctly implements the ***COR** (Computer output reduction) and ***AUTO** page rotation special values, it is possible that you will see a change when generating PDF.

OS/400 only applies ***COR** and ***AUTO** under certain circumstances. In previous releases of Spool-a-Matic ***COR** and ***AUTO** were always applied regardless of the circumstances. With this release, OS/400 logic is implemented and spooled files that previously were forced on to the page size specified by the transform, may now "not fit" as they did before.

This difference does not apply to spooled files created with a printer file that specifies the standard default values.

Three new transforms (***PDF811BASIC** ***PDF814BASIC** ***PDFA4BASIC**) were added to more closely emulate the "force to fit" processing from previous releases. If in testing the new release you find that your spooled files no longer fit on the page, use one them.

We have an extensive suite of regression tests that we run against all new releases, but, depending on your installation's tolerance for changes in output, Gumbo recommends that you test the new release before placing in production. The following sections describes how to test the new release while leaving your current release in production.

New Release Testing

Unlike IBM licensed programs, Gumbo Software licensed programs are packaged in a way that allows multiple release to be installed on your AS/400 at the same time. This feature allows you to test a new release while the current release remains in production. To test a new release, follow this procedure:

1. Install the new release in library SAMV1R3M0

```
RSTLICPGM LICPGM(2A55SAM) DEV(device-name) LIB(SAMV1R3M0)
```

where device-name is the device the media was mounted on.

2. Perform your new release testing.
3. When testing is complete you must delete the new release.

DLTLICPGM LICPGM(2A55SAM) RLS(V1R3M0) OPTION(*ALL)

Note: Do not use DLTLIB nor rename libraries to move the new release into production.

4. Follow the installation instructions to place the new release into production.

Chapter 4 Implementation Added

A new manual chapter has been added. The chapter describes choices and strategies for implementing Spool-a-Matic in your environment.

TOOBJ() Special Values Added

Spool-a-Matic provides several special values that can be used to construct dynamic object (PC file) names. When the special values are found, the associated data is blank trimmed and substituted into the name specified when the spooled file is processed. If the data associated with a special value is blank, "BLANK" is substituted. The special values are:

*ACGCDE	Accounting code CHAR(15).
*CRTSYS	System created on originally CHAR(8). This can differ from the current system's name if the spooled file was sent from another AS/400.
*CRTUSR	User creating originally CHAR(10). This can differ from the *JOBUSR value if the spooled file was sent from another AS/400.
*FILE	Spooled file name CHAR(10).
*FILE8	Same as *FILE truncated to CHAR(8).
*JOBNAM	Name portion of the job containing the spooled file CHAR(10).
*JOBNAM8	Same as *JOBNAM truncated to CHAR(8).
*JOBUSR	User portion of the job containing the spooled file CHAR(10).
*JOBUSR8	Same as *JOBUSR truncated to CHAR(8).
*OUTQ	Output queue the file is on CHAR(10).
*PGM	Program that opened the file CHAR(10).
*PGM8	Same as *PGM truncated to CHAR(8).
*PRTTXT	Print text CHAR(30).
*SPLCDAT	Date the spooled file was open CHAR(7) CYYMMDD.
*SPLCTIM	Time the spooled file was opened CHAR(6) HHMMSS.
*USRDTA	User data CHAR(10).

WRKGSISPLF Option 7=Message and 9=Print Status Added

The Work with Gumbo Spooled Files (WRKGSISPLF) command has been enhanced with two new options. Option 7=Message allows you to respond to messages for spooled files that have the MSGW status. Option 9=Print Status allows you to display OS/400's Work with Printing Status panel for a spooled file.

WRKGSIOUTQ Command Added

The Work with Gumbo Output Queue (WRKGSIOUTQ) command has been added. The command works like OS/400's Work with Output Queue (WRKOUTQ) command but provides additional options to access the functions of Spool-a-Matic.

Two Drawer Processing Added For PDF

Two new PDF transform have been added that allow you to specify a "two drawer" paper size. *PDF811814 specifies a conversion with 8 ½" x 11" paper in drawer 1 and 8 ½" x 14" paper in drawer 2. *PDF814811 specifies a conversion with 8 ½" x 14" paper in drawer 1 and 8 ½" x 11" paper in drawer 2. Use these transforms with spooled files that print on two different paper sizes.

Front and Back Overlay Processing Added

For *SCS and *IPDS spooled files, front and back overlays are now processed when converting the spooled file to PDF. Previously overlays were ignored.

IPDS to PDF Transform Enhanced

For *IPDS spooled files, PDF processing has been enhanced to the same level of function as previously provided for *AFPDS spooled files. Previously, only print text was processed and Courier New was the only font used to render the spooled file. Now image and graphic data are processed and fonts are mapped to the appropriate built-in Acrobat Reader font.

SCS to PDF Transform Enhanced

For *SCS spooled files, PDF processing has been enhanced to the same level of function as previously provided for *AFPDS spooled files. Previously, only print text was processed and Courier New was the only font used to render the spooled file. Now all the SCS controls such as tab stops are processed and fonts are mapped to the appropriate built-in Acrobat Reader font. This greatly improves the processing of spooled files generated using OS/400's PRTDOC command.

Overprinting Restrictions Removed

Previously, Spool-a-Matic could not process "out of order" printing and any and all overprint data was discarded when processing *SCS and *IPDS spooled files. For conversions to PDF all over printing restrictions have been removed. The overprint data appears in the generated file. For all other transforms, "out of order" printing is no longer treated as overprinting and is handled correctly. When there is actual overprinting, the least significant data is discarded. For example, underscores are discarded in favor of letters and numbers.

Numerous AFPDS to PDF Enhancements Added

Many enhancements and bug fixes were made to the AFPDS to PDF transform. Thanks to all who reported bugs and supplied spooled files, your help is greatly appreciated. A partial list follows:

- C PDF border correction logic and parameters.
- C Optio font definitions added to tables.
- C Buffer overrun error corrected.
- C Graphics text rotation implemented.
- C Auto rotate logic corrected.
- C Print text processing performance improved.
- C Graphics fill implemented.
- C Large IM images removed from in-line.
- C Point to Pel Mapping option implemented.
- C Point to 2 Pel Mapping option implemented.
- C Font descriptor triplet highlighting implemented
- C Rotated images in page segments corrected.
- C Font default width specification implemented.
- C Improved font defaulting.
- C FormDef processing added.
- C Rotation corrected.
- C Reference printer device function added.
- C Medium offset processing added.
- C Small image cell processing corrected.
- C Text rotation corrected.
- C Typographic font sizes corrected.
- C IM image replication added.
- C In-line GDDM graphic support added.
- C Elixir font definitions added to tables.
- C Negative line spacing handling corrected.
- C Print text spacing calculations improved.
- C ImagePlus/400 support added.
- C Support for AFP print driver generated resources added.
- C Print text no print adjustment added.
- C Support for invalid orientation requests added.
- C Number of font messages reduced.
- C Support for internal in-line medium maps added.

We continue to solicit problem reports. If your output doesn't look right, please let us know.

AFP Print File Hooks Added

Hooks have been added that will allow us to deliver an AFP Print File enhancement by PTF. The generated file will contain resources referenced by the spooled file and be suitable for use with IBM's AFP Viewer.