

SPOOLMAIL

Version 2 Release 1 Modification 0
Enhancement Summary
Program Number 2A55-SM1

Eleventh Edition (January 2005)

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Installation Instructions

Restoring the new release

Read the Enhancement Summary to determine if any changes affect your installation. To install Ver 2 Rel 1 Mod 0, sign on as the security officer.

1. Verify that your machine is at OS/400 V5R1M0 or later by running:

```
DSPDTAARA DTAARA(QGPL/QSS1MRI)
```

2. Mount the distribution media in the appropriate device.
3. Submit the Restore Licensed Program (RSTLICPGM) command to batch:

```
RSTLICPGM LICPGM(2A55SM1) DEV(device-name) LNG(2924)
```

Note: You may receive inquiry message CPA3DE4 "Directory not registered. (C G)". If you do, you will receive it three times. In all cases it is safe to take a "G".

4. Enter your permanent authorization code.

Enhancements for SpoolMail Version 2 Release 1 Modification 0

What's In This Section

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

Spooled File Splitting Added

The Send Spool Mail (SNDSPLMAIL) command has been enhanced to allow splitting of a spooled file based on data found on each page. The new recipient special value *PAGDTA indicates that the spooled file should be split into multiple e-mails. The new Page data (PAGDTA) parameter specifies where on each page recipient information is located. If the page data is not an e-mail address but other identifying information, the new Address mapping program (ADDMAPPGM) parameter specifies a customer supplied program to calculate an e-mail address based on the data on the page. A separate e-mail is generated for each unique value of the page data. *PAGDTA is enabled for APF FFT HTM PDF RTF and TXT conversions. For additional information see the command's help text and the manual. An example address mapping program written in CL is included in the file SMSOURCE, member SKLADDMAP.

*PAGDTA Special Value Added To SUBJECT() Parameter

The Send Spool Mail (SNDSPLMAIL) command has been enhanced to allow SUBJECT(*PAGDTA). When generating multiple e-mails from a spooled file, the subject can now be the page data value of the pages contained in each e-mail.

Paper Manual Removed From New Release Materials

The paper manual has been removed from the new release materials. The contents are available as help text (Option 1 from the menu) and as printable PDFs located in the /Gumbo/Proddata/2A55SM1/doc directory on your system.

Include object (INCOBJ) Parameter Added

The Send Spool Mail (SNDSPLMAIL) command has been enhanced to allow including additional objects (PC Files) in the generated e-mail. Up to 64 additional objects can be included, either as

attachments or in the body of the e-mail. This can, for example, be used to include standard terms and conditions in the generated e-mail.

MIME Content Type Changed For PDF

The MIME part content type specified when a spooled file is sent using one of the PDF transforms is now "application/pdf". Previously "application/octet-stream" was specified. This improves some mail readers' ability to process the MIME part.

New Send as (SEND) Special Values Added

The Send Spool Mail (SNDSPLMAIL) command has been enhanced to allow SEND(*TEXTHTML) and SEND(*TEXTPLAIN). Similar in function to SEND(*NOTE), the new special values allow you to control the transformation of the spooled file but include the results in the body of the e-mail message as a MIME "text" part.

Fidelity (FIDELITY) Parameter Added

A new parameter, Fidelity (FIDELITY), has been added. It specifies whether conversion continues when errors are encountered. The possible values are:

***RESOURCE**

Conversion stops when print resources referenced by the spooled file are not found.

***CONTENT**

Conversion continues when errors are found.

The default value ***RESOURCE** gives the previous release's behavior of failing the conversion if a print resource (*PAGSEG or *OVL) is not found during processing.

Display Page Data (DSPPAGDTA) Command Added

A new command, Display Page Data (DSPPAGDTA), has been added to Spool-a-Matic. The command allows you to display selected data from within a spooled file. The command supports output to a display, to print, and most interestingly to an output file.

For example, by displaying the page position of the customer number in spooled files containing invoices, you can create an index from customer number to the related spooled files that contain their invoices.

The command takes the identity of a spooled file and page data selection as input. The page data parameter allows you to specify the line, position, and length of the data to be retrieved from each page. Additionally, the page data parameter allows you to specify that "off page" data, such as that specified on the DDS STRPAGGRP() and DOCIDXTAG() keywords, should be retrieved. Multiple page data specifications are support.

The Display Page Data (DSPPAGDTA) command to generates output files with PDPAGDRF as the record. PDPAGDRF is made up of several groups of fields that describe an element of the page.

- o Spooled file. These fields provide information about the spooled file from which the data was taken.
 - PDJSYS Name of the system where the job that created the spooled file ran.
 - PDJJOB Name of the job that created the spooled file.
 - PDJUSR Name of the user who produced the spooled file.
 - PDJNBR Number of the job in the system.
 - PDJSPF Name of the spooled file.
 - PDJSP# Spooled file number within the job.

- o Location. These fields describe the location of the data in the spooled file.
 - PDPAGE Page number.
 - PDLINE Line number the data appears on. The possible special values and their meanings are:
 - 53 = *DOCIDXTAG: The data was added to the spooled file using the DDS DOCIDXTAG() keyword at either the page level or group level.
 - 54 = *DOCIDXPAG: The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the page level.
 - 55 = *DOCIDXGRP: The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the group level.
 - 56 = *STRPAGGRP: The data was added to the spooled file using the DDS STRPAGGRP() keyword.
 - 57 = *DOCIDXTAGP: The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the page level, group level or was propagated from the group level to all pages in the group.
 - 58 = *DOCIDXGRPP: The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the group level or was propagated from the group level to all pages in the group.
 - 59 = *STRPAGGRPP: The data was added to the spooled file using the DDS STRPAGGRP() keyword or was propagated from the keyword to all pages in the page group.
 - PDSPOS Position on the line the data starts. When PDLINE contains one of the special values, PDPOS is zero.
- o Data. These fields contain the data.
 - PDVLEN Length of data contained in the following field.
 - PDVDTA Data retrieved from the page. When PDLINE is one of the special values related to the DDS STRPAGGRP() keyword, PDVDTA contains the "group-name" specified. When PDLINE is one of the special values related to the DDS DOCIDXTAG() keyword, PDVDTA contains the "attribute-value" specified.
 - PDNLEN Length of data contained in the following field.
 - PDNDTA Name data. When PDLINE is one of the special values related to the DDS DOCIDXTAG() keyword, PDNDTA contains the "attribute-name" specified otherwise it is blank.

Page Counted Added To Message

When *PAGDTA is specified and not all pages are processed, a message is issued. The message now includes the count of pages omitted.

Erroneous SUBJECT() Special Value Corrected

The SNDSPLMAIL command definition erroneously specified USRDFNTXT instead of *USRDFNTXT as a special value on the SUBJECT() parameter.

Corrected Default Extensions

The default extension for some RTF transforms were incorrectly generated. These have been corrected.

California Customers Do Not Receive CD

The California Board Of Equalization asserts that mailing a CD to California is equivalent to opening an office in the state for the purposes of forming a nexus and thus requires the collection of state sales tax. We believe the assertion will ultimately be overturned but aren't willing to argue the point ourselves. Until then California customers can download the new release from <http://www.gumbo.com/downloads.html>

PDF Generator Corrections And Updates

- o The ability to process and render image data compressed using the TIFF LZW compression method was added.
- o Print positioning of tabbed, superscripted, subscripted text improved for some OfficeVision spooled files.
- o Removed erroneous warning message issued when processing print text SetExtendedColor control.
- o Graphics marker drawing orders have been implemented.
- o Medium map specified constant back overlays have been implemented.
- o Text suppression through specification of suppression local identifiers, which are sometimes found in medium maps, has been implemented.
- o Underlining of long sequences of SCS variable pitch font data can exceed the size of the internal variable used in Acrobat releases before 6.0. The underlined data appears misaligned with older versions of Acrobat. PDF is now generated to work around this limit.
- o For IM images, if the images bit area was larger than the containing area (i.e. truncation implied), the image data was mishandled resulting in broken PDF.
- o Previously, the dimensions and resolution declared by an IM image were honored as declared. However, actual HPT printers ignore the declaration and force the image to 240 or 300 pel giving different image size results. PDF processing was enhanced to emulate this.

Authorization Component Corrections And Updates

- o Authorization code now enforces requirement that *LPAR license is run on a partitioned machine. If a formally partitioned machine becomes unpartitioned while the software is running under an *LPAR license, a grace period is granted.

Configuration Processor Corrections And Updates

- o Service program was not properly clearing an error flag when trying to retrieve the optional QPRTVALS data area. This caused other unrelated code to behave as if there was a failure and end processing.

Command Processing Corrections And Updates

- o Output file component support added.

Font Processor Corrections And Updates

- o Updated font base data table with addition of undocumented graphic character set global id substitution entries to correct *FGID imbedding of OCR font 19.

Graphic Object Processing Corrections And Updates

- o Marker graphic order primitives are now processed. Previously they were ignored.

Integrated File System Component Corrections And Updates

- o Added zero suppressing binary data type processing for path resolution.

MODCA Processor Corrections And Updates

- o Enabled processing of medium map specified constant back overlays and add exports.
- o Enabled processing of medium map specified text suppression local ids.

Mail Set Up Corrections And Updates

- o The Verify/Set Up Local SMTP (VFYLOCAL) command's Internet Gateway processing has been made optional for the products that include it. This is for backward compatibility. The processing is removed from most products.

Logical Printer Miscellaneous Corrections And Updates

- o Print device driver was being confused by lines that begin or end with a '/' and misinterpreting the line as a comment that should be dropped.
- o Print device driver was being confused by ampersands included in a quoted string, believing they were unknown variables. Now ampersand variables are edited during initial command retrieval and warnings issued for unrecognized names, but they are copied unmolested during command resolution.
- o Print device driver was improperly calling i5/OS (OS/400) api to update the processed spooled file status resulting in CPF3C1D in the joblog.
- o Improved error message for unknown variable names.

Print Data Stream Processor Corrections And Updates

- o Added exports to retrieve page count and selected count from page maps.
- o Default print data stream manager now waits for data from an incomplete and open spooled file to become ready instead of failing with message id CPF33D7.

Program Distribution Corrections And Updates

- o Product installation preserves any product job descriptions when a new release is installed over an old release in order to preserve any customer changes. This caused the CHKPRDOPT command and the Verify that Spool-a-Matic is installed correctly menu option to show a failure. The product exit program has been changed to allow job descriptions from an old release to be honored as "present".

PTOCA Processor Corrections And Updates

- o Corrected SetExtendedColor control processing. Previously it was overlaying suppression codes and erroneously suppressing text.
- o Enabled text suppression through text suppression local ids and added exports.

RTF Generator Corrections And Updates

- o Page sizing error when a spooled file specifies a font with a different size than that implied by the spooled file's CPI value.

SCS Processor Corrections And Updates

- o New exports were added to allow file generators to determine the current superscript/subscript status of the data stream.

Spool Indexing Corrections And Updates

- o Indexer updated to support page data retrieval and mapping by other components.
- o Indexer now only creates lower level OCA environments when they are needed to service the indexing request, avoiding processing and speeding tag based indexing.

Send Mail Component Corrections And Updates

- o An error in the QtmmSendMail() api causes the second and subsequent sends to fail on systems without a QPRTVALS data area. The error has been papered over and PMR49413 submitted to IBM.
- o Add functions and exports to handle editing and adding object lists to mail message.
- o Email address parser was mishandling domains and routes that contain seldom used but legal characters such as the underscore (_).
- o Added "application/pdf" content type processing for attached files.

Spool Component Corrections And Updates

- o Displaying a spooled file message has been improved. Clearer error messages are issued in all cases of a failure and the work space created for processing is now always deleted.
- o Processing for the Create Spooled Save File (CRTSPLSAVF) command's Save file (SAVF) parameter was not correctly handling the case when the library was specified as *CURLIB and the job does not have a *CURLIB. In this case the command failed with message id CPD0078. Now the library name QGPL is substituted.
- o Error handling and clean up on failure enhanced for the Create Spooled Save File (CRTSPLSAVF) command. Authority problems no longer result in an empty save file.
- o Added *SPLNBRZ path special value which substitutes the spooled file's number with leading zeros suppressed.
- o Added *PAGECNTZ path special value which substitutes the spooled file's page count with leading zeros suppressed.

Spool User Interface Corrections And Updates

- o Displaying a spooled file message using option 7 from the WRKGSISPLF and WRKGSIOUQ panels has been improved. Clearer error messages are issued in all cases of a failure and the work space created for processing is now always deleted.

Text Generation Corrections And Updates

- o A buffer initialization error was producing incorrect data for the first line of text for some CCSID combinations.
- o Generator updated to share existing print data stream cursor when available.