

SPOOLMAIL

Enhancement Summary V2R3M0
Program Number 2A55SM1

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GUMBO *Software, Inc.*

809 W Howe St
Seattle, WA 98119
United States of America

Phone: (206) 284-5078
E-mail: support@gumbo.com
Web: www.gumbo.com

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Installation Instructions

Restoring the new release

Read the Enhancement Summary to determine if any changes affect your installation.

Follow these instructions to install SpoolMail V2R3M0 on your iSeries Server:

Note: If you have downloaded this software from the web, instructions specific to installing from the download can be found in the file "readme.htm" which is included in the download.

1. Sign on to the system as the security officer (QSECOFR).
2. Verify that your machine is at i5/OS V5R3M0 or later by running:

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

Note: If you are running a version of i5/OS earlier than V5R3M0 you can not install SpoolMail V2R3M0 on your machine. You must install an earlier version of SpoolMail or upgrade the operating system.

3. Verify that user domain objects are allowed in the libraries SPOOLMAIL and QSRV, by running:

```
WRKSYSVAL SYSVAL(QALWUSRDMN)
```

Take option 5 to display the value. If the value is not *ALL, use option 2 to add libraries SPOOLMAIL and QSRV to the list of libraries where user domain objects are allowed.

4. Insure that i5/OS will be able to verify the signatures that we apply to our product's objects by installing our Signing Certificate and Root CA Certificate using Digital Certificate Manager. Alternately, insure that signature verification will not prevent the restore operation by running:

```
WRKSYSVAL SYSVAL(QVIFYOBRST)
```

Take option 5 to display the value. If the value is 3 or higher, use option 2 to temporarily change the value to 1.

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

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

Note: "device-name" is the device the media was mounted on and is usually OPT01.

Note: You may receive message CPA3DE4 "Directory not registered. (C G)" (three times). If so, take option "G".

7. Enter your permanent authorization code.
8. Determine which PTFs were included on the media by entering the following command:

```
DSPPTF LICPGM(2A55SM1)
```

9. Visit www.gumbo.com to determine if newer PTFs are available.

Enhancements For SpoolMail V2R3M0

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.

ISO 19005-1 PDF/A Implemented

ISO (the International Organization for Standardization) 19005-1 specifies a restricted format for long-term electronic document preservation based on Adobe's PDF and known as PDF/A which has been implemented as new transforms. To access conversions to PDF/A you specify a slightly different transform name. For example, to create PDF/A for the transform *PDFLETTER you specify *PDFALETTER instead. For *PDFA4, *PDFAA4, etc. There are 2 exceptions: Use *PDFALTRLGL and *PDFALGLLTR for *PDFLETTERLEGAL and *PDFLEGALLETTER respectively. The new transforms are:

*PDFALETTER	Use PDF/A Adobe Portable Document Format conversion with a page size of 8.5" x 11".
*PDFALEGAL	Use PDF/A Adobe Portable Document Format conversion with a page size of 8.5" x 14".
*PDFASTATEMENT	Use PDF/A Adobe Portable Document Format conversion with a page size of 5.5" x 8.5".
*PDFAEXECUTIVE	Use PDF/A Adobe Portable Document Format conversion with a page size of 7.25" x 10.5".
*PDFALEDGER	Use PDF/A Adobe Portable Document Format conversion with a page size of 11" x 17".
*PDFAA3	Use PDF/A Adobe Portable Document Format conversion with a page size of A3.
*PDFAA4	Use PDF/A Adobe Portable Document Format conversion with a page size of A4.
*PDFAA5	Use PDF/A Adobe Portable Document Format conversion with a page size of A5.
*PDFAB4	Use PDF/A Adobe Portable Document Format conversion with a page size of B4.
*PDFAB5	Use PDF/A Adobe Portable Document Format conversion with a page size of B5.
*PDFALTRLGL	Use PDF/A Adobe Portable Document Format conversion with a page size of 8.5" x 11" for drawer 1 and 8.5" x 14" for drawer 2.
*PDFALGLLTR	Use PDF/A Adobe Portable Document Format conversion with a page size of 8.5" x 14" for drawer 1 and 8.5" x 11" for drawer 2.

SUBJECT() Enabled For Dynamic Data

Processing of Send Spool Mail (SNDSPMAIL) command's subject parameter has been enhanced to provide several special values that can be used to construct dynamic subject content. When the special values are found, the associated data is blank trimmed and substituted into the subject specified when it is processed. If the data associated with a special value is blank, "BLANK" is substituted. The special values must be delimited by an underscore (_) a period (.) a slash (/ or \) or a blank. Example:

```
SUBJECT('Invoice *PAGDTA Attached')
```

The spooled file splitting special values are:

***PAGDTA** The data found based on criteria specified in the Page data (PAGDTA) parameter.

The spooled file attribute related 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 System i5.
***CRTUSR** User creating originally CHAR(10). This can differ from the *JOBUSR value if the spooled file was sent from another System i5.
***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).
***JOBNBR** Job number of the job containing the spooled file CHAR(6).
***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).
***PAGECOUNT** Spooled file page count converted to text. CHAR(6) or more.
***PAGECNTZ** Spooled file page count converted to text with leading zeros removed. Length varies.
***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.
***SPLCCYY** Century-year portion of the date the spooled file was open CHAR(3) CYY.
***SPLCYY** Year portion of the date the spooled file was open CHAR(2) YY.
***SPLCMM** Month portion of the date the spooled file was open CHAR(2) MM.
***SPLCDD** Day portion of the date the spooled file was open CHAR(2) DD.
***SPLNBR** Spooled file number converted to text. CHAR(6).
***USRDFNDTA** User defined data CHAR(255).
***SPLNBRZ** Spooled file number converted to text with leading zeros removed. Length varies.
***USRDFNTXT** User-defined text taken from the user profile when the spooled file was created CHAR(100).
***USRDTA** User data CHAR(10).

***TIFF Transforms Enhanced**

The *TIFF related transforms have been enhanced. Previously *TIFF transforms could only convert a spooled file in its entirety. Now spooled files can be subsetted using the pagerange parameter and or split using the *PAGDTA feature when *TIFF transforms are specified.

Font Processor Corrections And Updates

- o Updated font base data table with additional glyph names.
- o Added new functions for accessing IFS based Type 1 fonts.
- o Changes to allow correct handling of FGID=0.
- o Bold and italic now handled correctly for user defined FGIDs.
- o Concurrent timing issues in resolving font resources can lead to failures including Array not found and pointer not set exceptions under unusual circumstances.

Mail Set Up Corrections And Updates

- o Malformed SMTP commands cause PINGMAIL to always fail to send test message.

PDF Generator Corrections And Updates

- o Added PDF Add PDF/A sRGB color profile data.
- o Host Print Transform COR font rounding causes text misalignment for some spooled files.
- o Corrected PDF generated for GOCA color images.
- o Implemented Character Angle value for GOCA graphic characters.
- o Text stored in the "Application" attribute of the "General" "Document properties" of generated PDF files has been updated. Previously, "OS/400 program ..." was stored. Now "i5/OS program ..." is stored to reflect the renaming of the operating system.
- o Processing for MODCA include object (IOB) structured fields ignored fidelity parameter, always performing *ABSOLUTE processing.
- o Processing for MODCA include object (IOB) structured fields mangled the image included when PDFDEFLATE(*YES) specified.
- o Processing for MODCA include object (IOB) structured fields improperly sized the included image.

Print Data Stream Processor Corrections And Updates

- o Error merging spooled files containing mixed SCS/IPDS under some rare circumstances.

SCS Processor Corrections And Updates

- o Parser now correctly handles emphasis during font imbedding.
- o Corrected mixed SCS/IPDS cross parser communication for font stack control.
- o Corrected mixed SCS/IPDS cross parser communication for page status, number.

Spool Indexing Corrections And Updates

- o Indexer now considers PTOCA transparent data when building spooled file indexes.
- o Indexing mishandled spooled files with blank last page causing the page to be dropped.
- o Corrected mixed SCS/IPDS cross parser communication for page number during dump/retrieve.
- o Uninitialized variable could cause divide by zero error for some SCS/IPDS spooled files during dump/retrieve.
- o Added note to Dump Page Index Position output to show "Data position in line = Pos + Data Offset".
- o Uninitialized variable caused occasional SIX0021 indexer reset error.