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Product ID  . . . . . . . :  2A55SM1 SpoolMail - Gumbo Software, Inc.
Release . . . . . . . . . :  V2R4M0
As of . . . . . . . . . . :  2015/12/29


                                                   Status    Superseded
PTF ID    Description                              Date      By
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2M40ALL   Cumulative PTF Package Last Updated 2015/12/29
2M40001   PDF Underline Error Message Removed      11/01/12  2M40076
             o Removed erroneous error messages generated
               for spooled files with underline during most
               PDF conversions.
2M40002   SM1 *PAGDTA Function Broken              11/01/12  2M40009
             o Erroneous code change breaks *PAGDTA function.
               SNDSPLMAIL fails for any use of *PAGDTA.
2M40003   PDF Random Conversion Failures           11/01/12  2M40076
             o Missing function return caused random
               conversion failures on some systems.
2M40004   PDF Improved Obscure Font Substitution   11/01/12  2M40076
             o Mapping of obscure font FGIDs to PDF builtin
               fonts now always produces a result and hence
               bold is always honored.
2M40005   SND *ANY Directory Entry Broken          11/01/12  2M40071
             o Sending an email to a user id/address that
               utilizes an *ANY entry from the directory
               to supply the domain name for the email
               address was inadvertently broken by a change
               to the code. *ANY entries are now correctly
               processed.
2M40006   SND Attachment Name, MSF 5026 Problem    11/01/12  2M40071
             o Attachment names containg blanks or of unusual
               length resulted in an incorrectly formed mime
               message. Mime is now correctly formed.
             o i5/OS' mail server framework can't find files
               when the path is encoded in a ccsid that does
               not contain the EBCDIC invariant characters.
               The tmpnam() api returns a name containing
               lowercase letters, which, when run in a ccsid
               5026 job aren't in the invariant code points.
               QtmmSendMail() api requires path names to be
               in the job's ccsid. Send component was modified
               to use only uppercase (always invariant) path
               names when the job's ccsid causes tmpnam() to
               produce variant characters. Japanese 5026 now
               can be processed by the MSF.
             o Added function to retrieve a product's installed
               home directory coded in the requesting job's
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                                                   Status     Superseded
PTF ID   Description                               Date       By
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         default ccsid.
       o Added function to produce a system wide unique
         temporary file name. The file is in the product
         installed home directory's /tmp folder unless
         /tmp contains variant EBCDIC, as is the case
         for Japanese ccsid 5026 jobs. In this case the
         file is placed in the system /tmp directory
         using a /TMP name.
2M40007  SM1 Japan 5026 Temp Names Corrected        11/01/12  2M40009
       o Temporary internal file names now avoid non
         standard lowercase letter encoding found in
         ccsid 5026.
2M40008  SDD API Returns Anomalous Data             11/01/12  2M40071
       o Search System Directory (QOKSCHD) API performs
         erroneous conversion on converted data
         resulting in incorrect directory data for
         ccsids that do not contain the EBCDIC
         invariant characters i.e. 5026 Japan.
2M40009  SDD API Returns Anomalous Data             12/12/12
       o Search System Directory (QOKSCHD) API performs
         erroneous conversion on converted data
         resulting in incorrect directory data for
         ccsids that do not contain the EBCDIC
         invariant characters i.e. 5026 Japan.
2M40010  PDF ToUnicode CMap Missing                 11/01/12  2M40076
       o ToUnicode CMap stream object erroneously
         omitted for *TYPE3 and *TRUETYPE embedded
         fonts under some circumstances resulting in
         PDF/A that doesn't meet standard and resulting
         in text operations such as cut and paste
         giving unusable results.
       o ToUnicode CMap stream object now included for
         *TYPE1 embedded fonts to insure that even ill
         behaved fonts can be accurately handled by
         Adobe Acrobat.
2M40011  GRO Multi-Segment Position Error           11/01/12  2M40057
       o Chained command sequences that contain an
         interior begin segment command resulted in
         extraneous lines. Interior begin segment
         commands are now treated as NOOPs.
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2M40012  MSU Lint In Call To API                    12/12/12
           o QtocRtvTCPA() api parameter prototyped as
             signed instead of unsigned causing potential
             api in mail set up functions to fail.
2M40013  MSU Lint In Call To API                    12/12/12
           o QtocRtvTCPA() api parameter prototyped as
             signed instead of unsigned causing potential
             api in mail set up functions to fail.
2M40014  SPC QUSCRTUS Behavior Changed At V6R1       12/12/12
           o QUSCRTUS() api parameter 11's default
             behavior changed at i5/OS V6R1M0 rendering
             some uses of large user spaces an error.
             Call to api changed to specify original
             behavior.
2M40015  MSU VFYLOCAL Job Name Change At V6R1        11/01/12  2M40060
           o Name of job started when TCPIP is started
             changed from QTCPIP to QTCPWRK at V6R1.
             VFYLOCAL command now checks correct name.
2M40016  MSU VFYROUTER Job Name Change At V6R1       12/12/12
           o Name of job started when TCPIP is started
             changed from QTCPIP to QTCPWRK at V6R1.
             VFYROUTER command now checks correct name.
2M40017  NLS New Function                            12/12/12
           o Added new simple string conversion function
             export.
2M40018  TIF New Service Program                     12/12/12
           o Initial build. Portions of the LIBTIFF library
             have been compiled into a service program to
             manipulate TIFF files.
2M40019  PDF Implement AFPRSC(... *TIFF) Processing  11/01/12  2M40076
           o Processing has been added for object-type
             *TIFF files specified on the DDS AFPRSC()
             keyword. *TIFF files stored in the integrated
             file system and included in a spooled file
             now appear in the generated PDF.
2M40020  PDF Implement USPS IMB Barcode Processing   11/01/12  2M40076
           o Processing has been added for United States
             Postal Service (USPS) Intelligent Mail Barcode
             (IMB) aka. 4-state customer barcode.
2M40021  TXT Blank Pages Cause Buffer Overflow       12/12/12
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          o Procedure TxtLoadEndPage() generates MCH3601
            or MCH0601 when a sequence of blank pages is
            converted. The number of sequential blank
            pages to cause the failure varies with the
            spooled file lines per page and can be as few
            as 11 pages with page length 66 lines.
2M40022   HTM Blank Pages Cause Buffer Overflow          12/12/12
          o Procedure HtmLoadEndPage() generates MCH3601
            or MCH0601 when a sequence of blank pages is
            converted. The number of sequential blank
            pages to cause the failure varies with the
            spooled file lines per page and can be as few
            as 8 pages with page length 66 lines.
2M40023   FFT Blank Pages Cause Buffer Overflow          12/12/12
          o Procedure FftLoadEndPage() generates MCH3601
            or MCH0601 when a sequence of blank pages is
            converted. The number of sequential blank
            pages to cause the failure varies with the
            spooled file lines per page and can be as few
            as 8 pages with page length 66 lines.
2M40024   RTF Blank Pages Cause Buffer Overflow          12/12/12
          o Procedure RtfLoadEndPage() generates MCH3601
            or MCH0601 when a sequence of blank pages is
            converted. The number of sequential blank
            pages to cause the failure varies with the
            spooled file lines per page and can be as few
            as 3 pages with page length 66 lines.
2M40025   PDF USPS IMB Barcode Additional Functions      11/01/12  2M40076
          o Intelligent Mail Barcode (IMB) processing
            extended to support SMALL variant (2.667
            inches). Support also added for optional
            HRI (Human Readable Information) above or
            below.
2M40026   PDF USPS IMB Barcode Tweaks/Image Error Fix    11/01/12  2M40076
          o USPS IMB Barcode HRI distance from symbol
            reduced.
          o USPS IMB Barcode generated inline instead of
            as document Xobject.
          o Handling of corrupt G4-MMR images corrected.
2M40027   SND Accommodate Missing RFC2231 Support        11/01/12  2M40071
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	o To correct the encoding of MIME parameter values for attachment names of unusual length or containing blanks, RFC 2231 was implemented. Not all mail clients have implemented RFC 2231 (outlook 2000, 2002, 2003) resulting in odd attachment names. RFC 2231 encoding is now avoided unless it is required to meet other MIME constraints.		
2M40028	PDF G4-MMR Pointer Not Set Exposure	11/01/12	2M40076
	o Fix for corrupt G4-MMR images introduced potential pointer not set failure.		
2M40029	PID Update Field Product Manager Verify	12/12/12	
	o Installation verification menu option now specifies CHKSIG(*NONE). Since we digitally sign our objects but most customers do not install our digital certificates, the option gave unnecessarily alarming results. If you have installed our certificates, you can run a complete check using CHKPRDOPT ...CHKSIG(*ALL)		
2M40030	SUI WRKGSIOUTQ Option 2 Prompting	12/12/12	
	o WRKGSIOUTQ panels have been enhanced to more closely simulate their i5/OS analogs when prompting option 2, Change Spooled File Attributes. The output queue parameter is now accessible without pressing F10.		
2M40031	SUI WRKGSISPLF Option 2 Prompting	12/12/12	
	o WRKGSISPLF panels have been enhanced to more closely simulate their i5/OS analogs when prompting option 2, Change Spooled File Attributes. The output queue parameter is now accessible without pressing F10.		
2M40032	FNT Horizontal Scale Factor	11/01/12	2M40075
	o F:OCA data stream processor now processes HSF (Horizontal Scale Factor) triplet for MCF (Map Coded Font 2) SFI. These can be found in overlays created using InfoPrint Designer. Function added to retrieve scale.		

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2M40033   MOD Horizontal Scale Factor                11/01/12  2M40046
          o MO:DCA data stream processor now processes
            HSF (Horizontal Scale Factor) triplet
            for MCF (Map Coded Font 2) SFI. These
            can be found in overlays created using
            InfoPrint Designer.
2M40034   PDF Horizontal Scale Factor                11/01/12  2M40076
          o Font and print text processing now honors
            HSF (Horizontal Scale Factor) specified
            on fonts in AFPDS spooled files, overlays and
            page segments.
2M40035   PDF GOCA Line Widths Incorrect             11/01/12  2M40076
          o Graphic Object Content Architecture fractional
            line widths, in all cases, and line widths
            at resolutions other than 1440ths were
            rendered incorrectly. Generally the lines
            produced were thinner than specified.
2M40036   PDF IBM-MMR Image Handling Changed         11/01/12  2M40076
          o IBM-MMR images now converted to PDF as
            uncompressed images instead of CCITTFaxDecode.
2M40037   MOD Wrong Overlay Selected From Formdef    11/01/12  2M40046
          o Triplet FQN (Fully Qualified Name) now checks
            for a name that is less than 8 bytes when
            loading the DSNAM8 value, and blank fills.
2M40038   PDF Replicate Pattern Mishandled           11/01/12  2M40076
          o End IIM image now turns off the Drawing Pattern
            switch for Replicate Patterns.
2M40039   PDF Increase Precision Of Font Scaling     11/01/12  2M40076
          o The precision of type 3 font character size
            scaling was increased from 2 decimal places
            to 3. Characters at the end of long sequences
            are now more accurately positioned.
2M40040   FNT C0S0CB12 Missing Bold Attribute        11/01/12  2M40055
          o Internal font tables erroneously mapped
            character set C0S0CB12 to Fgid 108 instead of
            Fgid 110 resulting in missing bold attribute
            in some instances.
2M40041   PDF IBM-MMR Block Spanning Error           11/01/12  2M40076
          o IBM-MMR images whose end of file marker spans
            the underlying structured fields were being
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                  mishandled resulting in PDF0063 TIFFax error
                  and failed conversion.
         2M40042  MOD Export ModMediumGetDescriptorMdd()        11/01/12  2M40046
                   o New export to retrieve the currently active
                     Medium Descriptor.
         2M40043  PDF Units Mismatch Causes Positioning Error   11/01/12  2M40076
                   o Now correctly position logical page on medium
                     when the page and medium use differing units
                     of measure. Though rare overall, the situation
                     is most often associated with custom form
                     definitions.
         2M40044  PDF IBM-MMR Long Distance Test Removed        11/01/12  2M40076
                   o Function used to test IBM-MMR images for end
                     of file markers was corrected to avoid long
                     distance bit tests outside the range of
                     tstbit() function.
         2M40045  FNT Reissue Service Program                   11/01/12  2M40075
                   o Reissue service program with less aggressive
                     optimization.
         2M40046  MOD Reissue Service Program                   12/12/12
                   o Reissue service program with less aggressive
                     optimization.
         2M40047  PDF Reissue Service Program                   11/01/12  2M40076
                   o Reissue service program with less aggressive
                     optimization.
                   o Jpeg images with density specified in
                     centimeters were being sized incorrectly.
         2M40048  FNT HSF Applied To GRID and Should Not        11/01/12  2M40075
                   o Horizontal Scale Factor triplet was being
                     applied to GRID specified font mappings in
                     *AFPDS spooled files and shouldn't have been.
                     Most GRID based font mappings don't include
                     the triplet, but those that do ended up with
                     incorrectly sized fonts.
         2M40049  MSU DSPMAILLOG *CURRENT Error                 11/01/12  2M40065
                   o DSPMAILLOG no longer assumes the system date
                     format is the same as the job date format
                     when converting *CURRENT special value.
         2M40050  MSU DSPMAILLOG *CURRENT Error                 11/01/12  2M40065
                   o Reissue PTF.
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PTF ID	Description	Status Date	Superseded By
2M40051	IFS Path Normalization Problem	11/01/12	2M40068
	o An internal table was missing '\' code points for ccsids 1130, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1153, 1154, 1155, 1156, 1157, 1158, 1160, 1164, 1388, 1399, 4971, and 5026. As a results, path normalization from '\' to '/' did not work correctly in these ccsids.		
2M40052	PDD STRSEU Proxy Confuses xxxDEVGLP Cmd	12/12/12	
	o CRTDEVGLP and CRTDEVGLP check for existence of command STRSEU to determine if PDM is installed and EDTF should be used instead. IBM added a STRSEU proxy command to QSYS so the check was always positive, even if PDM is not installed, causing the commands to fail on machines without PDM. The check is now qualified to library QPDA.		
2M40053	FT2 Add CCSID Independent Open/Close	12/12/12	
	o Added functions to open and close font file paths coded in any CCSID.		
2M40054	FNT Process User Font Files	11/01/12	2M40075
	o Previously, when processing fonts specified using DDS' FONTNAME() keyword, only IBM supplied fonts could be located. Now, the search for fonts follows the method used by IBM i, and user supplied fonts are correctly located and processed.		
2M40055	FNT Added Path Ccsid To Table	12/12/12	
	o Internal font table updated to add path ccsid.		
2M40056	SCS Improved Typographic Underlining	12/12/12	
	o Added export and changes to allow more accurate position calculations when *EXACT specified, benefiting underline of variable typographic fonts.		
2M40057	GRO Enable User Specified Default Behavior	12/12/12	
	o Enable external control of the device default behavior of the graphics processor.		
2M40058	PDF Enable User Specified Default Behavior	11/01/12	2M40076
	o IBM Graphic Objects typically specify details of the required rendering but can and		

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	sometimes do depend on "device default" behavior. Previously, our pdf processor's default behavior was the more detailed "character precision". For graphic objects that depend on a default behavior of "string precision", this can give odd results. The pdf processor has been updated to enable the user selectable default behavior implemented in our Graphics Processor.		
2M40059	PDF Media Overlay, XMP Metadata	11/01/12	2M40076
	o Media overlays were being placed on the page out of order. Unless there were overlapping page segments or overlays on the page, the misordering had no visual affect. Overlapped resource were presented incorrectly. The order has been corrected.		
	o Previously, PDF/A implemented the draft standard with regard to XMP metadata similar to Acrobat 7.0. The implementation has been updated to reflect ISO 19005-1:2005 as accepted.		
2M40060	MSU VFYLOCAL Turns Off *LOOPBACK at V6R1M0	12/12/12	
	o Mail verification no longer turns off *LOOPBACK. At V6R1, the STRTCPIFC command issues message id TCP1B12 as a diagnostic instead of an escape. Our VFYLOCAL command was using the escape to determine is we turned on the interface and if we did, turned it off. Now the *LOOPBACK interface is left on in all cases.		
2M40061	PDF GOCA Character Data Mishandled	11/01/12	2M40076
	o The "device default" value for Set Character Precision when rendering GOCA graphic character strings was inadvertently changed from "character precision" to "string precision" for IPDS, or SCS with IPDS, spooled files. This could change the size of characters when precision is not specifically set. Additionally GOCA character data was erroneously located when offset other than 0,0 specified in the graphic area. The change is reversed.		

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PTF ID	Description	Status Date	Superseded By
2M40062	FNT Resource Resolution Conflict Corrected	11/01/12	2M40075
	o Previously, font parsing could produce errors or failed processing. The problem situation arose when identically named, but different, font resources were simultaneously parsed and the timing of the processing was unlucky. Luck is no longer required to get correct results.		
2M40063	SND Change MIME Part Ordering	11/01/12	2M40071
	o Previously, MIME parts were added to an email under construction without regard to order. I.e. parts were added as they were processed. While this behavior is compliant with the relavent MIME specifications, it befuddles some of the most popular email clients. Outlook treats text MIME parts preceded by an attachment as an attachment, giving it a name and failing to display it. In the same scenario, Thunderbird displays the text part as intended but also assigns a name and shows it in the list of attachments muddying the overall appearance of the message. Now, generation of MIME parts is postponed until the full content of the email is known. Once known, the text MIME parts are processed first, placing them at the top of the email in the order received, followed by any and all attachments again in the order received.		
2M40064	PDF *EXACT/*EXACTMOD Broken	11/01/12	2M40076
	o PTF changes introduced an error. If TXTRELPOS() was set to *EXACT or *EXACTMOD, and a monospaced font was specified in an *AFPDS or *IPDS spooled file, positioning errors could occur. The error is corrected.		
2M40065	MSU DSPMAILLOG Misleading Failure	12/12/12	
	o DSPMAILLOG was sending a "no data available" message regardless of the reason for failure of the DSPJRN command. Command now sends an "error encountered" message for DSPJRN		

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          failures unless the failure is CPF7062
          "No entries converted ...".
2M40066   IFS Add link/unlink exports                11/01/12  2M40068
             o Functions were added for creating and
               removing hard links for stream files.
2M40067   SND File Processing Now Asynchronous       11/01/12  2M40071
             o Previously when adding files as attachments,
               calling functions had to insure that each file
               was available until the email was finalized
               and sent. Internal processing was changed to
               establish hard links to the files, allowing
               the calling function to delete them
               immediately.
2M40068   IFS Correct IFS1014/IFS1016 Message Usage  12/12/12
             o Corrected usage of message id IFS1014 and
               IFS1016.
2M40069   IFS Add Message ID IFS1014/IFS1016         12/12/12
             o Added missing message id IFS1014 and IFS1016.
2M40070   SND Unlinkable File Processing             11/01/12  2M40071
             o Improperly initialized variable resulted
               in garbage in message data for message id
               SND1009 and SND1030.
             o Objects in unlinkable file systems now
               handled properly.
2M40071   SND New Export                             12/12/12
             o New export to allow client to select
               synchronous vs asynchronous processing.
2M40072   PDF Multi Bit Image, *EXACT & Unkown FGID  11/01/12  2M40076
             o Previously, bit mapped images with more
               than 1 bit per pel resulted in an
               unviewable file. Now all bit depths
               are processed correctly.
2M40073   PDF *TYPE3 Imbedding With Logical Base     11/01/12  2M40076
             o Previously when imbedding type 3 fonts,
               scaling of raster font character
               bit images into font space assumed that the
               B_space dimension was coincident with the
               left and right edge of the raster bounding
               box. This is true for almost all, but not
               all, fonts. Now scaling is calculated based
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          on a conversion from raster space to font
          space.
2M40074  SPL Enhanced Resource List Processing   12/12/12
         o Enhanced processing for api QGSLRSC. Previously,
           processing was ended if the api issued any
           error. Now the spooled file resource list is
           inspected for useable data after an error is
           returned. The situation arises when a spooled
           file owner's user profile has been deleted,
           for example.
2M40075  FNT FGID Height Override Honored         12/12/12
         o For fonts identified by an FGID which has an
           implied height, height overrides were ignored.
           Overrides are now applied.
2M40076  PDF Occasional Missing Unicode Map       12/12/12
         o Unicode character maps were ommited when the
           spooled file contained both type 1 and type 3
           fonts and only type 3 were imbedded. The
           The missing cmap rendered the resulting pdf
           unsearchable.
2M40077  SUI WRKGSISPLF F5 Position Error         12/12/12
         o Pressing F5=Refresh for a second time on
           WRKGSISPLF and WRKGSIOUTQ panels caused the
           panel to reposition to the top of the list.
           The error is corrected.
2M40078  SUI WRKGSIOUTQ F5 Position Error         12/12/12
         o Pressing F5=Refresh for a second time on
           WRKGSISPLF and WRKGSIOUTQ panels caused the
           panel to reposition to the top of the list.
           The error is corrected.

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