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 As of . . . . . : 2018-01-15

| <u>PTF ID</u> | <u>Description</u>  | <u>Status</u><br><u>Date</u> | <u>Superseded</u><br><u>By</u> |
|---------------|---|------------------------------|--------------------------------|
| 2M80ALL       | Cumulative PTF Package Last Updated 2018/01/15  |                              |                                |
| 2M80001       | PDF Imbed *NONE, Missing *FNTRSC Behavior<br><ul style="list-style-type: none"> <li>o An error was introduced in pdf generation. When an ASCII codepage is specified by a spooled file (or one of its resources), and when the codepage is not present on the system, and when PDFFNTIMB(*NONE) is specified, the results are erroneous. The error has been corrected and the old behavior restored.</li> </ul>   | 09/19/14                     | 2M80067                        |
| 2M80002       | SM1 CHGSM1DFT POP Updated<br><ul style="list-style-type: none"> <li>o CHGSM1DFT command's prompt override program updated to include new PDFFNTIMB() single values.</li> </ul>  | 09/19/14                     |                                |
| 2M80003       | SM1 Additional PDF Open Options<br><ul style="list-style-type: none"> <li>o Three new elements have been added to the PDF document open options (PDFDOCOPN) parameter. The elements add further control over the documents interaction with the viewer.<br/>           Element 12: Page scaling CHAR(1)<br/>           Specifies the page scaling option to be selected when a print dialog is displayed displayed for this document.<br/>             *DEFAULT<br/>               Use the current print scaling.<br/>             *NONE<br/>               The print dialog should reflect no page scaling.<br/>           Element 13: Duplex CHAR(1)<br/>           Specifies the paper handling option to use when printing the file from the print dialog.<br/>             *DEFAULT<br/>               Use the current setting.<br/>             *SIMPLEX<br/>               Print single-sided.<br/>             *SHORTEDGE<br/>               Print duplex and flip on the short edge of the sheet.<br/>             *LONGEDGE<br/>               Print duplex and flip on the long edge of the sheet.<br/>           Element 14: Pick tray by page size CHAR(1)<br/>           Specifies whether the PDF page size is used</li> </ul> | 09/19/14                     | 2M80067                        |

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|               | to select the input paper tray. This setting influences only the preset values used to populate the print dialog presented by a PDF viewer application.<br>Note: This setting has no effect on Mac OS systems, which do not provide the ability to pick the input tray by size.<br>*NO<br>Selection as defined by the PDF viewer application.<br>*YES<br>Check box in the print dialog associated with input paper tray is checked. |                    |                      |
| 2M80004       | SM1 *LASTCRT Processing Corrected<br>o Something wiggled. *LASTCRT processing has been incorrect but working since 2005. Code compiled TGTRLS(V7R1M0) reveals the error with CPF1061 "Time not valid" when *LASTCRT was specified on the SNDSPLMAIL, DMPPIP, DSPPAGDTA, and RTVPAGDTA commands.   | 09/19/14           | 2M80067              |
| 2M80005       | SM1 Open Spooled File Edit Message Restored<br>o Error message for the open spooled file edit was inadvertantly disarmed. The command would correctly fail, but there was no "Previously listed message" and the cause was ambiguous. The message has been rearmed.   | 09/19/14           | 2M80067              |
| 2M80006       | PDF Misleading FNT0019 and FNT0022 Issued<br>o We internally specified an erroneous GRID for the default underscore font while implementing the new font engine causing diagnostic messages FNT0019 and FNT0022 to be issued during resolution. The GRID's GCSGID has been corrected.   | 09/19/14           | 2M80067              |
| 2M80007       | FNT Unnecessary FNT0022 Message<br>o Font processing was sending message id FNT0022 when a host character set could not be found for a grid specified font. Now the message is postponed until the missing character set is needed and thus avoiding the message when the missing character set doesn't matter.   | 09/19/14           | 2M80066              |
| 2M80008       | FNT Unnecessary FNT0013/16 Messages<br>o Font processing was sending message id FNT0013,  | 09/19/14           | 2M80066              |

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|               | FNT0016, CPF9801 and CPF33CF when a code page font resource could not be found for a grid specified font. Now the message is postponed until the missing code page is needed and thus avoiding the messages when the missing code page doesn't matter.  |                    |                      |
| 2M80009       | SM1 Missing Diagnostic Message<br>o Diagnostic message was removed but the error return wasn't resulting in hard to diagnose problem with open spooled files and invalid page ranges.   | 09/19/14           | 2M80067              |
| 2M80010       | SM1 Corrected PAGERANGE(*SPLF) Processing<br>o Corrected PAGERANGE(*SPLF) processing.   | 09/19/14           | 2M80067              |
| 2M80011       | MOD Page Position Information Mishandled<br>o Incorrect processing of Begin Page's Page Position Information triplet resulted in wrong overlay applied to page in some instances.   | 09/19/14           | 2M80021              |
| 2M80012       | PDF Misconstructed Page Content<br>o Under reasonably convoluted conditions involving multiple overlays on a page, the page content construction was mishandled resulting in malformed pages contents. In the example from the problem report, the printed content was missing.   | 09/19/14           | 2M80067              |
| 2M80013       | PDF PDFFNTIMB(*ALL) Doesn't Work<br>o PDFFNTIMB(*ALL) was not working.  | 09/19/14           | 2M80067              |
| 2M80014       | CFG Enable IPDSPASTHR() As Override<br>o Processing logic modified to allow a spooled file's IPDSPASTHR() parameter to suppress IPDS page re-size logic when *YES specified, even when other requirements are not met. This allows spooled files that depend on the pre AFP logic to print correctly to be correctly converted. | 09/19/14           |                      |
| 2M80015       | SAM Add JOBSYSNAME() And CRTDATE()<br>o Two new parameters, JOBSYSNAME() and CRTDATE(), have been added to the SNDSPLMAIL command. These have the same meaning and usage as those found on IBM's spooled file related commands and allow you to select specific spooled files when file/job/user/jobnbr/splfnbr are not unique. | 09/19/14           | 2M80067              |

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| 2M80016       | FNT MCH3601 On Malformed Codepage *FNTRSC<br><ul style="list-style-type: none"> <li>o Malformed codepage *FNTRSC caused MCH3601 after parsing. The malformed codepage is now treated as if it does not exist.</li> </ul>  | 09/19/14           | 2M80017              |
| 2M80017       | SUI WRKGSIOUQ Option 3 Status Change<br><ul style="list-style-type: none"> <li>o Holding a spooled file from WRKGSIOUQ panel using option 3 failed to update the status to *HLD. The status is now updated.</li> </ul>  | 09/19/14           |                      |
| 2M80018       | PDF DBCS Glyph Missing From Font<br><ul style="list-style-type: none"> <li>o Mishandled character usage maps could result in missing glyphs when subsetting DNCS fonts.</li> </ul>  | 10/10/14           | 2M80067              |
| 2M80019       | FNT MCH3601 On Malformed Codepage *FNTRSC<br><ul style="list-style-type: none"> <li>o Correct and reissue PTF 2M80016.</li> </ul>   | 10/10/14           | 2M80066              |
| 2M80020       | FNT Internal Handling of TrueType Improved<br><ul style="list-style-type: none"> <li>o Improved internal handling of TrueType fonts.</li> </ul>   | 10/27/14           | 2M80066              |
| 2M80021       | MOD Missing Return Code Processing Added<br><ul style="list-style-type: none"> <li>o Missing return code processing corrected. It was exposed during testing of another component.</li> </ul>   | 10/27/14           |                      |
| 2M80022       | PDF TrueType/*AUTO/Unicode Fixes<br><ul style="list-style-type: none"> <li>o When a single TrueType font is specified in multiple sizes, sizing of each after the first is incorrect.</li> <li>o *AUTO font imbedding not working for TrueType fonts.</li> <li>o Unicode data inappropriately processed for unprintable xFF resulting in mangled unicode data.</li> </ul> | 10/27/14           | 2M80067              |
| 2M80023       | FNT Unknown Code Page Handling Corrected<br><ul style="list-style-type: none"> <li>o Missing code page font resource no longer causes the process to fail, a substitute is used instead. This restores the previous behavior.</li> <li>o Default code page selection enhanced to be sensitive to the spooled file's encoding.</li> </ul>                                  | 01/15/15           | 2M80066              |
| 2M80024       | PDF TrueType With Code Page Corrected<br><ul style="list-style-type: none"> <li>o When a TrueType font was specified with a code page font resource, the generated PDF contained incorrect data, unicode mapping and font subset.</li> </ul>  | 01/15/15           | 2M80067              |
| 2M80025       | PDF Merge TrueType Subsets<br><ul style="list-style-type: none"> <li>o Multiple copies of a single TrueType font,</li> </ul>  | 02/05/15           | 2M80067              |

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|               | with different subsets, were generated when the font was specified in different ways. Now the subsets are combined into single copy and overall file size is reduced.  |                    |                      |
|               | o Horizontal scaling of the underscore character was performed incorrectly when rendering PTOCA underscored text.  |                    |                      |
| 2M80026       | FNT *SCS Scalable Fonts Mishandled   | 03/31/15           | 2M80066              |
|               | o The font size derived from *SCS spooled file which specifies a scalable font was incorrect.  |                    |                      |
| 2M80027       | PDF *SCS Scalable Fonts Mishandled   | 04/13/15           | 2M80067              |
|               | o The font size derived from *SCS spooled file which specifies a scalable font was incorrect.  |                    |                      |
| 2M80028       | PDF *TRUETYPE On Handheld Devices  | 04/21/15           | 2M80067              |
|               | o Imbedded *TRUETYPE fonts used with DBCS data displays correctly in Adobe Reader but does not display in other context such as handheld due to malformed CIDFont declaration.   |                    |                      |
|               | o Imbedded *TRUETYPE fonts used with SBCS data displays correctly in Adobe Reader but does not display in other context such as handheld due to malformed encoding cmap.   |                    |                      |
| 2M80029       | PDF A PDF/A Validator Complains  | 05/09/15           | 2M80067              |
|               | o Some PDF/A validators complain that "The XMP property 'xmp:CreateDate' is not synchronized with the document information entry 'CreationDate'." Code was changed to avoid the less liberal interpretation.                     |                    |                      |
| 2M80030       | SM1 SPLNBR(*ANY) Doesn't Work  | 07/10/15           | 2M80067              |
|               | o SNDSPLMAIL command's SPLNBR() parameter special value *ANY doesn't work and generates an error.  |                    |                      |
| 2M80031       | SPL QGSLRSC Fails For Duplicate Splf   | 07/10/15           |                      |
|               | o Generating a resource list using QGSLRSC failed when processing a spooled file that has a duplicate on the system. QGSLRSC is now called using the system's internal IDs for the job and spooled file and the problem avoided. |                    |                      |
| 2M80032       | FNT QGSLRSC Fails For Duplicate Splf   | 07/10/15           | 2M80066              |
|               | o Retrieving font file names using QGSLRSC failed when processing a spooled file that  |                    |                      |

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|---------------|--|--------------------|----------------------|
|               | has a duplicate on the system. QGSLRSC is now called using the system's internal IDs for the job and spooled file and the problem avoided.   |                    |                      |
| 2M80033       | FNT Unneeded TrueType Opens Failure<br><ul style="list-style-type: none"> <li>o Resolving TrueType fonts failed to check for existing resolved reference resulting in a stack overflow and failed processing.</li> </ul>   | 08/25/15           | 2M80066              |
| 2M80034       | FNT Clean Up Error<br><ul style="list-style-type: none"> <li>o Two location in environment create error handling destroy a local copy of a pointer instead of the passed copy leading to a suspected error on a customer system when the passed copy is also destroyed.</li> </ul> | 09/09/15           | 2M80067              |
| 2M80035       | PDF Uninitialized Pointer<br><ul style="list-style-type: none"> <li>o Uninitialized pointer caused clean up failure with MCH3601 under some error scenarios.</li> </ul>  | 09/11/15           | 2M80067              |
| 2M80036       | FNT Reissue Service Program<br><ul style="list-style-type: none"> <li>o Service program recompiled and reissued.</li> </ul>  | 12/19/15           | 2M80066              |
| 2M80037       | PDF Reissue Service Program<br><ul style="list-style-type: none"> <li>o Service program recompiled and reissued.</li> </ul>  | 12/19/15           | 2M80067              |
| 2M80038       | SND Attachment Name With M\$ "\"<br><ul style="list-style-type: none"> <li>o Attachment file name incorrect when object specified using window path separator character ("\") instead of IFS path separator character ("/").</li> </ul>  | 01/18/16           |                      |
| 2M80039       | PDF Portrait90/Landscape90 Incorrect<br><ul style="list-style-type: none"> <li>o Portrait 90 and Landscape 90 orientation values on medium descriptors gave wrong results for *AFPDS spooled files. Orientation now derived from medium descriptor extents.</li> </ul>             | 02/15/16           | 2M80067              |
| 2M80040       | PDS Page Buffer Functions Added<br><ul style="list-style-type: none"> <li>o Page buffer concept and supporting functions added. Page buffers allow out of sequence print data to be processed correctly by sequence oriented transforms such as txt, html, etc.</li> </ul>         | 08/24/16           | 2M80050              |
| 2M80041       | FNT Retrive CCSID Function Added<br><ul style="list-style-type: none"> <li>o New export allows retrieval of a font stack entry's opinion on the current effective ccsid.</li> </ul>  | 08/24/16           | 2M80066              |
| 2M80042       | TXT Procесing Improvements<br><ul style="list-style-type: none"> <li>o *TXTxxx transforms now support out of sequence data in a print data stream.</li> </ul>  | 08/24/16           | 2M80051              |

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|               | <ul style="list-style-type: none"> <li>o *TXTxxx transforms now support mixed CCSID data in a print data stream.</li> <li>o *TXTxxx transforms now support complex over printing of DBCS data as well as other enhancements to overlap resolution.</li> </ul>  |                    |                      |
| 2M80043       | SAM Add *TXTNONBLANK Transform <ul style="list-style-type: none"> <li>o New text transform, *TXTNONBLANK, has been added. The transform compresses out all lines containing only white space. This processing is similar to that of the OS and i Access.</li> </ul>  | 08/24/16           | 2M80067              |
| 2M80044       | PDS Internal Mods To Increase Modularity <ul style="list-style-type: none"> <li>o Internal modifications to increase modularity.</li> </ul>  | 09/20/16           | 2M80050              |
| 2M80045       | TXT Internal Mods To Increase Modularity <ul style="list-style-type: none"> <li>o Internal modifications to increase modularity.</li> </ul>  | 09/20/16           | 2M80051              |
| 2M80046       | PDF Intelligent Mail BARCODE Error <ul style="list-style-type: none"> <li>o Incorrect data in an internal Intelligent Mail table resulted in invalid barcodes being generated something like 1.5% of the time.</li> </ul>  | 10/05/16           | 2M80067              |
| 2M80047       | PDS Page Buffer Handle DBCS ES!=x1301 <ul style="list-style-type: none"> <li>o Page buffering enhanced to handle DBCS data with encoding schemes other than x1301.</li> </ul>  | 10/10/16           | 2M80050              |
| 2M80048       | FNT Always Produce Unicode Char Map <ul style="list-style-type: none"> <li>o Processing enhanced to produce a unicode character map even in the absence of a code page *FNTRSC object.</li> </ul>  | 10/10/16           | 2M80066              |
| 2M80049       | PDS Uninitialized Variable <ul style="list-style-type: none"> <li>o Uninitialized variable causes *TXTxxx conversion failure when splitting the spooled file with PAGDTA() parameter.</li> </ul>   | 10/18/16           | 2M80050              |
| 2M80050       | PDS New Export <ul style="list-style-type: none"> <li>o New export added to improve space/memory management between service program and clients.</li> </ul>  | 11/18/16           |                      |
| 2M80051       | TXT *FORMDEF/Text Suppression <ul style="list-style-type: none"> <li>o *TXTxxx conversions now correctly process *FORMDEF print resources and correctly apply text suppression for *AFPDS spooled files. Previously text suppression was ignored and all text appeared in the generated output.</li> </ul> | 11/18/16           |                      |
| 2M80052       | HTM Various Enhancements <ul style="list-style-type: none"> <li>o Built in css changed from tr { float: left; } to tr { float: none; } to yield uniform "page" sizes during display.</li> </ul>  | 11/18/16           |                      |

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|               | <ul style="list-style-type: none"> <li>o Support for *AFPDS print data streams added.</li> <li>o *HTMLxxx transforms now support out of sequence data in a print data stream.</li> <li>o *HTMLxxx transforms now support mixed CCSID data in a print data stream.</li> <li>o *HTMLxxx transforms now support complex over printing of DBCS data as well as other enhancements to overlap resolution.</li> </ul>   |                    |                      |
| 2M80053       | RTF Various Enhancements  | 11/18/16           |                      |
|               | <ul style="list-style-type: none"> <li>o Support for *AFPDS print data streams added.</li> <li>o *RTFxxx transforms now support out of sequence data in a print data stream.</li> <li>o *RTFxxx transforms now support mixed CCSID data in a print data stream.</li> <li>o *RTFxxx transforms now support complex over printing of DBCS data as well as other enhancements to overlap resolution.</li> <li>o *RTFxxx transforms can now target CCSID *UNICODE and *UTF8.</li> </ul> |                    |                      |
| 2M80054       | SAM Enable HTM/RTF for *AFPDS   | 11/18/16           | 2M80067              |
|               | <ul style="list-style-type: none"> <li>o Update conversion to enable *AFPDS processing by *HTMxxx and *RTFxxx transforms.</li> </ul>  |                    |                      |
| 2M80055       | FNT Enhanced Equal CharSet Test   | 01/01/17           | 2M80066              |
|               | <ul style="list-style-type: none"> <li>o Test for equal char sets enhanced to look at the underlying *FNTRSC and not the references, decreasing the number of false negatives.</li> </ul>   |                    |                      |
| 2M80056       | PDF *FGID Imbed Changes   | 01/01/17           | 2M80067              |
|               | <ul style="list-style-type: none"> <li>o Previously PDFFNTIMB(*FGID) looked for font resources in a list derived from the as shipped system font table. If no match was found, nothing was imbedded. Now if no match is found, Type 1 fonts present on every system are used. A font is always imbedded.</li> <li>o Previously multiple copies of a font imbedded for an FGID or for PDF/A might be included unnecessarily. Multiples are now avoided.</li> </ul>                   |                    |                      |
| 2M80057       | PID Message File Updates  | 10/09/17           |                      |
|               | <ul style="list-style-type: none"> <li>o Add new application messages to message file for future enhancement.</li> </ul>  |                    |                      |
| 2M80058       | PID Upgrade RTVGSIPTF Command   | 10/10/17           |                      |
|               | <ul style="list-style-type: none"> <li>o Previously, the Retrieve Gumbo PTF (RTVGSIPTF)</li> </ul>  |                    |                      |

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|               | <p>command downloaded PTFs using the FTP protocol. Now RTVGSIPTF uses HTTP. Additionally, RTVGSIPTF can access the PTF server through a proxy server, if required by your network, using the new PROXY() parameter.</p> <p>.</p> <p>We anticipate that some installations' networks will have problems accessing the PTF server over HTTP. On a temporary basis, RTVGSIPTF has introduced a PROTOCOL() parameter that allows you to switch back to the old FTP behavior while correcting problems with HTTP service. This parameter will ultimately be removed along with support for FTP as a transport mechanism.</p> <p>.</p> <p>COMPATIBILITY WARNING</p> <p>.</p> <p>HTTP is now the default protocol for PTF retrieval. If your network restricts HTTP access or if a proxy is required for HTTP access the RTVGSIPTF command will fail. If a proxy is required you must fill in the PROXY() parameter. Otherwise you will have to specify PROTOCOL(*FTP) while you resolve problems with HTTP access on your network.</p> |                              |                                |
| 2M80059       | <p>PDF Suppress DBCS *TYPE3 Imbedding</p> <ul style="list-style-type: none"> <li>o Previously PDFFNTIMB(*TYPE3) could not be specified for DBCS spooled files as imbedding of DBCS fonts fails. Now DBCS fonts are bypassed and other DBCS fonts are imbedded.</li> </ul>  | 10/31/17                     | 2M80067                        |
| 2M80060       | <p>FNT DBCS Length Calcs Corrected</p> <ul style="list-style-type: none"> <li>o Length and positioning were miscalculated for DBCS characters when processed in the presence of font resources. The old, correct, behavior has been restored.</li> </ul>   | 11/08/17                     | 2M80066                        |
| 2M80061       | <p>FNT New Function Export</p> <ul style="list-style-type: none"> <li>o New export to allow retrieval of a font's Baseline Offset Default value.</li> </ul>  | 11/12/17                     | 2M80066                        |
| 2M80062       | <p>PDF Correct Type3 Size For Mapping</p> <ul style="list-style-type: none"> <li>o Certain raster fonts (ex. C0S0CR12) contain a discrepancy between the stated point size and the 'Baseline offset default' value.</li> </ul>   | 11/12/17                     | 2M80067                        |

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|               | Sizing an Adobe builtin font using point size gave a result that was 'too small'. When the values diverge we now use 'Baseline offset default' to calculate size for the builtin giving results that better approximate the printed page.                           |                              |                                |
| 2M80063       | FNT Correct *PRV Signature<br>o Correct *PRV signature.   | 11/14/17                     | 2M80066                        |
| 2M80064       | PTX Track Overstrike/Underscore Positions<br>o Added processing and macros to track and return start and end positions for overstrike and underscore.   | 12/05/17                     |                                |
| 2M80065       | PDF Re-implement Underscoring<br>o Previously underscoring was accomplished by 'printing' the underscore character (_). This method could produce length oddities. Underscoring has been re-implemented as as a graphic line with improved start and stop accuracy. | 12/05/17                     | 2M80067                        |
| 2M80066       | FNT Improve Baseline Offset Default<br>o Update Baseline Offset Default retrieval to use FND Nominal Height if it is larger than Baseline Extent Max.   | 12/07/17                     |                                |
| 2M80067       | PDF /A Validation Failing<br>o PDF/A file validation was failing for files that contained bookmarks and for files produced with TXTRELPOS(*EXACTMOD) when *TYPE3 fonts were used. These now validate.   | 12/22/17                     |                                |

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