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 Release . . . . . : V2R9M0  
 As of . . . . . : 2018-08-24

| <u>PTF ID</u> | <u>Description</u>  | <u>Status Date</u> | <u>Superseded By</u> |
|---------------|---|--------------------|----------------------|
| 2M90ALL       | Cumulative PTF Package Last Updated 2018/08/24  |                    |                      |
| 2M90001       | 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           | 2M90054              |
| 2M90002       | 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           | 2M90050              |
| 2M90003       | PDF Merge TrueType Subsets<br><ul style="list-style-type: none"> <li>o Multiple copies of a single TrueType font, 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.</li> <li>o Horizontal scaling of the underscore character was performed incorrectly when rendering PTOCA underscored text.</li> </ul> | 02/05/15           | 2M90050              |
| 2M90004       | SM1 Expand PCFILE() To 64<br><ul style="list-style-type: none"> <li>o SNDSPLMAIL command's PCFILE() parameter was expanded from a maximum length of 32 to a maximum length of 64. No recompile is needed.</li> </ul>  | 02/08/15           | 2M90036              |
| 2M90005       | FNT *SCS Scalable Fonts Mishandled<br><ul style="list-style-type: none"> <li>o The font size derived from *SCS spooled file which specifies a scalable font was incorrect.</li> </ul>   | 03/31/15           | 2M90054              |
| 2M90006       | PDF *SCS Scalable Fonts Mishandled<br><ul style="list-style-type: none"> <li>o The font size derived from *SCS spooled file which specifies a scalable font was incorrect.</li> </ul>   | 04/13/15           | 2M90050              |
| 2M90007       | PDF *TRUETYPE DBCS On Handheld Devices<br><ul style="list-style-type: none"> <li>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.</li> </ul>  | 04/20/15           | 2M90050              |
| 2M90008       | PDF *TRUETYPE SBCS On Handheld Devices<br><ul style="list-style-type: none"> <li>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.</li> </ul>  | 04/21/15           | 2M90050              |

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| 2M90009       | SUI WRKGSISPLF/WRKGSIOUQ Slow Response Time<br><ul style="list-style-type: none"> <li>o WRKGSISPLF and WRKGSIOUQ were slow to respond to page down requests.</li> </ul>  | 04/29/15                     | 2M90021                        |
| 2M90010       | PDF A PDF/A Validator Complains<br><ul style="list-style-type: none"> <li>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.</li> </ul>                          | 05/09/15                     | 2M90050                        |
| 2M90011       | SM1 SPLNBR(*ANY) Doesn't Work<br><ul style="list-style-type: none"> <li>o SNDSPLMAIL command's SPLNBR() parameter special value *ANY doesn't work and generates an error.</li> </ul>   | 07/09/15                     | 2M90036                        |
| 2M90012       | SPL QGSLRSC Fails For Duplicate Splf<br><ul style="list-style-type: none"> <li>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.</li> </ul> | 07/10/15                     |                                |
| 2M90013       | FNT QGSLRSC Fails For Duplicate Splf<br><ul style="list-style-type: none"> <li>o Retrieving font file names 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.</li> </ul> | 07/10/15                     | 2M90054                        |
| 2M90014       | 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                     | 2M90054                        |
| 2M90015       | PDF 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>   | 09/04/15                     | 2M90050                        |
| 2M90016       | 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>  | 09/10/15                     | 2M90050                        |
| 2M90017       | FNT Reissue Service Program<br><ul style="list-style-type: none"> <li>o Service program recompiled and reissued.</li> </ul>  | 12/19/15                     | 2M90054                        |

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| 2M90018       | PDF Reissue Service Program<br>o Service program recompiled and reissued.  | 12/19/15                     | 2M90050                        |
| 2M90019       | SND Attachment Name With M\$ "\"<br>o Attachment file name incorrect when object specified using window path separator character ("\") instead of IFS path separator character ("/").  | 01/18/16                     |                                |
| 2M90020       | PDF Portrait90/Landscape90 Incorrect<br>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.   | 02/15/16                     | 2M90050                        |
| 2M90021       | SUI WRKGSISPLF/WRKGSIOUQ Slow Open<br>o WRKGSISPLF and WRKGSIOUQ were slow to open Selection check at the wrong point in the code resulted in poor performance on systems with many spooled files.   | 05/05/16                     |                                |
| 2M90022       | PDS Page Buffer Functions Added<br>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.   | 08/24/16                     | 2M90032                        |
| 2M90023       | FNT Retrive CCSID Function Added<br>o New export allows retrieval of a font stack entry's opinion on the current effective ccsid.  | 08/24/16                     | 2M90054                        |
| 2M90024       | TXT Procесing Improvements<br>o *TXTxxx transforms now support out of sequence data in a print data stream.<br>o *TXTxxx transforms now support mixed CCSID data in a print data stream.<br>o *TXTxxx transforms now support complex over printing of DBCS data as well as other enhancements to overlap resolution. | 08/24/16                     | 2M90033                        |
| 2M90025       | SAM Add *TXTNONBLANK Transform<br>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.   | 08/24/16                     | 2M90036                        |
| 2M90026       | PDS Internal Mods To Increase Modularity<br>o Internal modifications to increase modularity.   | 09/20/16                     | 2M90032                        |
| 2M90027       | TXT Internal Mods To Increase Modularity<br>o Internal modifications to increase modularity.   | 09/20/16                     | 2M90033                        |

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| 2M90028       | PDF Intelligent Mail BARCODE Error<br><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                     | 2M90050                        |
| 2M90029       | PDS Page Buffer Handle DBCS ES!=x1301<br><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                     | 2M90032                        |
| 2M90030       | FNT Always Produce Unicode Char Map<br><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                     | 2M90054                        |
| 2M90031       | PDS Uninitialized Variable<br><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                     | 2M90032                        |
| 2M90032       | PDS New Export<br><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                     |                                |
| 2M90033       | TXT *FORMDEF/Text Suppression<br><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                     |                                |
| 2M90034       | HTM Various Enhancements<br><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> <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> | 11/18/16                     |                                |
| 2M90035       | RTF Various Enhancements<br><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> </ul>  | 11/18/16                     |                                |

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|               | <ul style="list-style-type: none"> <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>   |                    |                      |
| 2M90036       | SAM Enable HTM/RTF for *AFPDS <ul style="list-style-type: none"> <li>o Update conversion to enable *AFPDS processing by *HTMxxx and *RTFxxx transforms.</li> </ul>  | 11/18/16           |                      |
| 2M90037       | FNT Enhanced Equal CharSet Test <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>   | 01/01/17           | 2M90054              |
| 2M90038       | PDF *FGID Imbed Changes <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>                         | 01/01/17           | 2M90050              |
| 2M90039       | SCS Invalid VCS Channel Ignored <ul style="list-style-type: none"> <li>o Invalid channel number in SCS control VCS (vertical channel select) was treated as a fatal error. Now the control is ignored and processing continues.</li> </ul>  | 08/09/17           |                      |
| 2M90040       | PID Message File Updates <ul style="list-style-type: none"> <li>o Add new application messages to message file for future enhancement.</li> </ul>   | 10/09/17           |                      |
| 2M90041       | PID Upgrade RTVGS IPTF Command <ul style="list-style-type: none"> <li>o Previously, the Retrieve Gumbo PTF (RTVGS IPTF) command downloaded PTFs using the FTP protocol. Now RTVGS IPTF uses HTTP. Additionally, RTVGS IPTF can access the PTF server through a proxy server, if required by your network, using the new PROXY() parameter.</li> </ul> <p>.</p> <p>We anticipate that some installations' networks will have problems accessing the PTF server over HTTP. On a temporary basis, RTVGS IPTF has</p> | 10/10/17           |                      |

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|               | 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.   |                    |                      |
|               | COMPATIBILITY WARNING  |                    |                      |
|               | 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.   |                    |                      |
| 2M90042       | PDF Suppress DBCS *TYPE3 Imbedding<br>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.  | 10/31/17           | 2M90050              |
| 2M90043       | FNT DBCS Length Calcs Corrected<br>o Length and positioning were miscalculated for DBCS characters when processed in the presence of font resources. The old, correct, behavior has been restored.   | 11/08/17           | 2M90054              |
| 2M90044       | FNT New Function Export<br>o New export to allow retrieval of a font's Baseline Offset Default value.  | 11/12/17           | 2M90054              |
| 2M90045       | PDF Correct Type3 Size For Mapping<br>o Certain raster fonts (ex. C0S0CR12) contain a discrepancy between the stated point size and the 'Baseline offset default' value. 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. | 11/12/17           | 2M90050              |
| 2M90046       | FNT Correct *PRV Signature<br>o Correct *PRV signature.  | 11/14/17           | 2M90054              |
| 2M90047       | PTX Track Overstrike/Underscore Positions  | 12/05/17           |                      |

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|---------------|--|--------------------|----------------------|
|               | o Added processing and macros to track and return start and end positions for overstrike and underscore.   |                    |                      |
| 2M90048       | 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           | 2M90050              |
| 2M90049       | 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           | 2M90054              |
| 2M90050       | 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           |                      |
| 2M90051       | FNT mu/micro Naming Discrepancy<br>o There is a naming discrepancy between IBM and Adobe regarding the mu/micro glyph. This caused the character to non-display in some circumstances. We have standardized on Adobe's view and the discrepancy is resolved.         | 04/09/18           |                      |
| 2M90052       | FNT PDF/A Fails After mu/micro Fix<br>o PDF/A processing fails after mu/micro fix with message ids FNT0028 and PDF0125. The error is corrected.  | 08/07/18           | 2M90054              |
| 2M90053       | PID Update Field Fix Manager<br>o Added field fix manager processing to delete resolved font resource users spaces, if requested by a PTF, in order to force regeneration.   | 08/24/18           |                      |
| 2M90054       | FNT Remove Type1 Marker Fields<br>o Type 1 font resolution now strips marker fields from the font program resulting in a pure pfb. This resolves a complaint from more recent PDF/A validators such as veraPDF,<br>.<br>NOTE: Previously resolved font resources are | 08/24/18           |                      |

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|               |  | <u>Date</u>   | <u>By</u>         |
|               | moved to QRPLOBJ during application of this<br>PTF in order to force their recreation. |               |                   |
|               | * * * * *  |               |                   |
|               | E n d   O f   L i s t   * * * * *  |               |                   |

