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 Release . . . . . : V2R8M0  
 As of . . . . . : 2019-02-01

<u>PTF ID</u>	<u>Description</u>	<u>Status</u> <u>mm/dd/yy</u>	<u>Superseded</u> <u>By</u>
2A80ALL	Cumulative PTF Package Last Updated 2019/02/01		
2A80001	SUI WRKGSISPLF/WRKGSIOUQ Slow Open <ul style="list-style-type: none"> <li>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.</li> </ul>	08/24/18	
2A80002	PDF Odd Length Strings Truncated To Even <ul style="list-style-type: none"> <li>o Inadvertent trimming of odd length single byte character strings within CJK double byte *SCS spooled files has been corrected.</li> </ul>	08/14/18	2A80054
2A80003	PDS Page Buffer Functions Added <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>	08/14/18	2A80013
2A80004	FNT Retrive CCSID Function Added <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>	08/14/18	2A80053
2A80005	TXT Procesing Improvements <ul style="list-style-type: none"> <li>o *TXTxxx transforms now support out of sequence data in a print data stream.</li> <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>	08/14/18	2A80014
2A80006	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>	08/14/18	2A80049
2A80007	PDS Internal Mods To Increase Modularity <ul style="list-style-type: none"> <li>o Internal modifications to increase modularity.</li> </ul>	08/14/18	2A80013
2A80008	TXT Internal Mods To Increase Modularity <ul style="list-style-type: none"> <li>o Internal modifications to increase modularity.</li> </ul>	08/14/18	2A80014
2A80009	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>	08/14/18	2A80054
2A80010	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>	08/14/18	2A80013

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2A80011	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>	08/14/18	2A80053
2A80012	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>	08/14/18	2A80013
2A80013	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>	08/24/18	
2A80014	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>	08/24/18	
2A80015	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> <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>	08/24/18	
2A80016	RTF Various Enhancements <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>	08/24/18	
2A80017	SAM Enable HTM/RTF for *AFPDS <ul style="list-style-type: none"> <li>o Update conversion to enable *AFPDS processing</li> </ul>	08/14/18	2A80049

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2A80018	by *HTMxxx and *RTFxxx transforms. FNT Enhanced Equal CharSet Test o Test for equal char sets enhanced to look at the underlying *FNTRSC and not the references, decreasing the number of false negatives.	08/14/18	2A80053
2A80019	PDF *FGID Imbed Changes 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. o Previously multiple copies of a font imbedded for an FGID or for PDF/A might be included unnecessarily. Multiples are now avoided.	08/14/18	2A80054
2A80020	QRC Libqrencode 3.9.0 Library Added o Initial build. Portions of the Libqrencode 3.9.0 library have been compiled into a service program to generate QR Code barcodes. Libqrencode is a C library for encoding data in a QR Code symbol, a kind of 2D symbology that can be scanned by handy terminals such as a mobile phone with CCD. The capacity of QR Code is up to 7000 digits or 4000 characters, and is highly robust. Libqrencode supports QR Code model 2, described in JIS (Japanese Industrial Standards) X0510:2004 or ISO/IEC 18004. Due to the range of implementor choices provided in the QR Code standard (JIS X0510:2004 or ISO/IEC 18004), the symbols generated by Libqrencode and IBM i are not identical square for square even though they provide identical output from a scanner.	08/24/18	
2A80021	PDF Enable QR Code o Barcode support has been extended to include QR Code.	08/14/18	2A80054
2A80022	FNT Improved Unicode Generation o Previously when producing unicode mappings when code page *FNTRSCs were missing from the system, CPGID=37 was used as a default. Now the implied	08/14/18	2A80053

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2A80023	CPGID is used and accuracy increased for non CPGID=37 code pages. PDF Encoding and BARCODE Enhancements o Font encoding when code page *FNTRSCs are missing from the system is enhanced. Previously a missing code page *FNTRSC was assumed to be CPGID=37 which gave erroneous results on non-US systems. o Barcode processing enhanced: - CODE93 now supported. - DATABAR(GS1) now supported, except expanded Tye3 GS1. - Interleaved 2-of-5 now supports modifiers 0x03 and 0x04 (Bearer Bars). - DDS *SWIDTH(symblo_width) parameter now supported. - Print emulation swicthed from IPDS to HPT resulting in slightly smaller barcodes.	08/14/18	2A80054
2A80024	FNT OCRB Codepage Selection o When OCRB was specified by FGID(3), an OCRA code page was selected incorrectly. Now OCRB CPGID 2086 is substituted for the CPGID 340 generated into the data stream and the error is avoided.	08/14/18	2A80053
2A80025	FNT Size Processing Corrected o When font resources are substituted for FGID fonts, the resource's notion of size now overrules the GRID specification. This restores the old, correct, behavior.	08/14/18	2A80053
2A80026	PDF *EXACTMOD Processing Corrected o Text relative positioning *EXACTMOD was incorrectly treated as *EXACT when fonts were imbedded. The old, correct, behavior is restored.	08/14/18	2A80054
2A80027	SCS Invalid VCS Channel Ignored 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.	08/24/18	
2A80028	FNT CCSID From CP When CS/CP Fails o When determining a CCSID for a font based on GCSGID/CPGID fails, an attempt is made to identify a CCSID based on CPGID alone. This restores the previous behavior.	08/14/18	2A80053

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2A80029	PDF Enhanced DBCS Processing <ul style="list-style-type: none"> <li>o Internal changes allow a print data stream's contents to determine when DBCS processing is required to correctly render a spooled file. Previously processing was driven by the target CCSID specified on the command.</li> <li>o Internal table mapping CCSID to Adobe Asian font name expanded to include SBCS CCSIDs used in ES 1301 mixed single and double byte CCSIDs.</li> </ul>	08/14/18	2A80054
2A80030	FNT Extraneous Error Messages Removed <ul style="list-style-type: none"> <li>o Unicode map generation during code page *FNTRSC resolution now suppressed when processing a single byte code page that represents an individual plane of a DBCS cpgid. This removes extraneous conversion failure messages.</li> </ul>	08/14/18	2A80053
2A80031	MSG New Export <ul style="list-style-type: none"> <li>o New export allows on the fly tuning of an existing message environment's diagnostic message delivery.</li> </ul>	08/24/18	
2A80032	SPL Quiet Resource List Resolution <ul style="list-style-type: none"> <li>o Resource list resolution has been modified to avoid diagnostic messages generated during resource searches. They were a byproduct of searching and misleading.</li> </ul>	08/24/18	
2A80033	PDF Limit Missing Resource Messages <ul style="list-style-type: none"> <li>o Missing resource messages generated during processing limited to 12.</li> </ul>	08/14/18	2A80054
2A80034	PID Message File Updates <ul style="list-style-type: none"> <li>o Add new application messages to message file for future enhancement.</li> </ul>	08/24/18	
2A80035	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>	08/24/18	

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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.		
2A80036	FNT New Function Export o New export to allow retrieval of a font's Baseline Offset Default value.	08/14/18	2A80053
2A80037	PDF Correct Type3 Size For Mapping 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.	08/14/18	2A80054
2A80038	PTX Track Overstrike/Underscore Positions o Added processing and macros to track and return start and end positions for overstrike and underscore.	08/24/18	
2A80039	PDF Re-implement Underscoring o Previously underscoring was accomplished by 'printing' the underscore character (_). This method could produce length oddities. Underscoring has been re-implemented as a graphic line with improved start and stop accuracy.	08/14/18	2A80054
2A80040	FNT Improve Baseline Offset Default o Update Baseline Offset Default retrieval	08/14/18	2A80053

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	to use FND Nominal Height if it is larger than Baseline Extent Max.		
2A80041	PDF /A Validation Failing <ul style="list-style-type: none"> <li>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.</li> </ul>	08/14/18	2A80054
2A80042	PDF Apple Viewer Chokes On V5 256AES <ul style="list-style-type: none"> <li>o Apple's PDF viewer chokes when *V5 encryption is specified. Their viewer shows a blank page because they are expecting an optional length value which, being optional, we didn't include. The length value is now included and 256AES encrypted files display without issue.</li> </ul>	08/14/18	2A80054
2A80043	FNT Improve Resolution and Processing <ul style="list-style-type: none"> <li>o Removed definition for font X0ABCD from internal font tables. This was an old work around that is no longer needed and gives incorrect results in some instances.</li> <li>o This version of the font component ended, prematurely, reliance on source CCSID for font processing. Now source CCSID is again used as a last resort when font processing can't find any other means of determining CCSID. This primarily affects DBCS spooled files.</li> <li>o Font processing is enhanced to parse and use information contained in font resources on the system and only referencing internal tables if the resource can't be found or if the resource doesn't contain the needed information.</li> <li>o An internal change was made to avoid font resolution until the time information is needed, if ever.</li> </ul>	08/14/18	2A80053
2A80044	PDF Improved Asian Font Mapping <ul style="list-style-type: none"> <li>o Internal DBCS font mapping table corrected and expanded to include all CCSIDs that map to Adobe built-in Asian fonts. CCSIDs 290, 833, 836, 1027, 1364, 1399, 4930, 4933, 5123, 13121, 13124, 16684, 28709 were added and now AFPDS data in these CCSIDs correctly map to the appropriate built-in.</li> </ul>	08/14/18	2A80054

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2A80045	FNT Character Position W/ *AUTO + *EXACT <ul style="list-style-type: none"> <li>o Incorrect character positioning could occur when imbedding *AUTO was used along with text relative positioning *EXACT or *EXACTMOD.</li> </ul>	08/24/18	2A80053
2A80046	PDF DocStrings Improved <ul style="list-style-type: none"> <li>o Document string processing was enhanced. If conversion of data to Adobe's document string encoding would result in an incorrect or invalid string, the string is converted to unicode instead. This corrects for rare and unlikely problems. For example, if a non-breaking space (x41) was included in the subject, it would display as a euro symbol.</li> </ul>	08/14/18	2A80054
2A80047	SAM PAGSLT() Enabled <ul style="list-style-type: none"> <li>o Missing internal load rendered PAGSLT() ineffective.</li> </ul>	08/24/18	
2A80048	PDF Add *PREBLEND32RGB Processing <ul style="list-style-type: none"> <li>o Added new *PREBLEND32RGB PDF image process blending (PDFIMGPBL) special value. With it 32 bit CMYK images are rendered with a RGB color model in the generated pdf. This can improve the appearance of an image.</li> </ul>	08/24/18	2A80054
2A80049	PDF Add *PREBLEND32RGB Processing <ul style="list-style-type: none"> <li>o Add *PREBLEND32RGB Processing</li> </ul>	08/24/18	
2A80050	PDF Enable *PREBLEND32RGB <ul style="list-style-type: none"> <li>o *PREBLEND32RGB enabled on CHGSAMDFT command.</li> </ul>	08/24/18	
2A80051	PID Update Field Fix Manager <ul style="list-style-type: none"> <li>o Added field fix manager processing to delete resolved font resource users spaces, if requested by a PTF, in order to force regeneration.</li> </ul>	08/24/18	
2A80052	FNT Remove Type1 Marker Fields <ul style="list-style-type: none"> <li>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,</li> </ul> <p>NOTE: Previously resolved font resources are moved to QRPLOBJ during application of this PTF in order to force their recreation.</p>	08/24/18	2A80053
2A80053	FNT Avoid Alt CharSet Substitution	11/07/18	

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	o Avoid *FGID alternative character set substitution from system table.		
2A80054	PDF Eliminate Duplicate Font Information	02/01/19	
	o Eliminated duplicate encoding, differences, and widths font information in generated file.		
2A80055	SAM Update Help Panels	02/01/19	
	o Update help panels with new and changed information.		

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