

*IBM Print Transform from AFP to PDF  
for Infoprint Server for z/OS Version  
1 Release 2 Modification 2, Program  
Number 5655-TF1, Licensed Program  
Specifications*



References in this publication to IBM® products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service.

Any other documentation with respect to this licensed program, including any documentation referenced herein, is provided for reference purposes only and does not extend or modify these specifications.

© **Copyright International Business Machines Corporation 2011, 2022.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

---

# Chapter 1.

IBM® Print Transform from AFP to PDF for Infoprint Server for z/OS® transforms documents from Advanced Function Presentation (AFP) format to Adobe Portable Document Format (PDF) 1.4 data streams. This lets you convert AFP output into PDF for delivery as e-mail, or for publishing on a web site or portal.

- With AFP to PDF Transform you can create Archived PDF documents, PDF/A.
- With Accessible PDF Transform, a separately priced feature for the AFP to PDF Transform, you can create accessible PDF documents.
- With Signed Secure PDF Transform, a separately priced feature for AFP to PDF Transform, you can create signed PDF documents.

Documents in AFP format can contain:

- Mixed Object Document Content Architecture for Presentation (MO:DCA-P) data
- Line data (requires an AFP page definition)
- 240-pel or 300-pel raster fonts, outline, TrueType, OpenType and WorldType fonts
- Barcodes
- PDF objects
- XML data

## Specified Operating Environment

---

IBM Print Transform from AFP to PDF for Infoprint Server for z/OS is designed to work with Infoprint Server on all supported releases of z/OS.

## Hardware Requirements

IBM Print Transform from AFP to PDF for Infoprint Server for z/OS can be installed on the IBM Z® family of hardware products.

## Software Requirements

- All supported releases of z/OS.
- The Infoprint Server feature of z/OS with all current service applied.
- The SMP/E element of z/OS to install IBM Print Transform from AFP to PDF for Infoprint Server for z/OS.
- The z/OS Font Collection (Program Number 5650-ZOS), a base element of z/OS
- Adobe Acrobat 5.0 or higher to view PDF documents.
- An AFP page definition, form definition, and font for formatting transform error messages.
- AFP resources that are not included inline in the AFP documents.

## Licensed Program Materials Availability

Restricted Materials – No. All modules of this licensed program are available without source licensed program materials. The program is available in object code.

## Supplemental Terms

---

## Testing Period

None.

## Satisfaction Guarantee

IBM provides a two-month unconditional guarantee for any reason for basic licenses. IBM will credit the price paid. The guarantee period starts 1) 10 days after IBM ships the program or 2) on the day IBM authorizes the customer to make an Additional License copy.

## Installation or Location License

- Not applicable for IBM Print Transform from AFP to PDF for Infoprint Server for z/OS.
- A separate license is required for each designated machine on which the licensed program materials are used.

## Use-Based Charges and Usage Restriction

Not applicable for IBM Print Transform from AFP to PDF for Infoprint Server for z/OS.

## Type and Duration of Program Services

IBM will provide Program Service, including an IBM Support Center, only through the customer location designated for the basic license until discontinued by IBM upon twelve months written notice.

## Authorization for Copy and Use on Home/Portable Computer

- Not applicable for IBM Print Transform from AFP to PDF for Infoprint Server for z/OS.

## Softcopy Publications

IBM Print Transforms From AFP to PDF for z/OS may include publications in displayable or source form. Except as provided in this section, the terms and conditions of the license agreement with IBM apply to these publications and any copies that are made from them.

The licensed publications may be used in displayable or source form on all machines designated for IBM Print Transforms From AFP for z/OS. The licensed publications may also be copied and used on other machines in support of authorized use of IBM Print Transforms From AFP for z/OS.

To support authorized use of IBM Print Transforms From AFP for z/OS, printed copies of the displayable or source material may be made if the copyright notice and any other legend of ownership is reproduced on each copy or partial copy.

## Excluded Components

---

The components listed below shall be considered "Excluded Components". Notwithstanding any of the terms in this IBM Agreement, or any other agreement you may have with IBM"

- All Excluded Components are provided on as "AS IS" basis;
- IBM AND ITS SUPPLIERS DISCLAIM ANY AND ALL EXPRESSED AND IMPLIED WARRANTIES AND CONDITIONS INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF TITLE, NON-INFRINGEMENT OR INTERFERENCE AND THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE EXCLUDED COMPONENTS;
- IBM and its suppliers will not be liable to You, or defend or indemnify You for any claims related to the Excluded Components; and
- IBM and its suppliers will not be liable for any direct, indirect, incidental, special, exemplary, punitive or consequential damages, including but not limited to lost data, lost savings, and lost profits, with respect to Excluded Components.

The Excluded Components are:

- Freetype2 API, Version 2.10.1
- LittleCMS 2, version 2.9.11
- Libpng, Version 1.6.37
- Libtiff, Version 4.2.0
- Libjpeg, Version 9d
- zLib, Version 1.2.11

## Non-IBM Code Components

ALL WARRANTIES RELATING TO THIS ICA PROGRAM AND ITS COMPONENTS ARE PROVIDED SOLELY BY IBM.

This IBM Customer Agreement (ICA) Program includes one or more code components (each, a "Code Component") that were supplied or licensed to IBM by one or more third parties (each, a "Supplier"). A Code Component may include or consist entirely of "open source" code.

This document contains notices and important information (including, as applicable, instructions for obtaining source code) that IBM is required to provide to you with respect to such Code Components.

Notwithstanding any terms in the IBM Customer Agreement (or any other equivalent agreement that You may have with IBM), the following terms apply to such Code Components:

1. WITH RESPECT TO EACH CODE COMPONENT INCLUDED IN THIS ICA PROGRAM, EACH SUPPLIER: (I) PROVIDES SUCH CODE COMPONENTS WITHOUT WARRANTIES OF ANY KIND TO YOU; AND (II) DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES AND CONDITIONS, INCLUDING BUT NOT LIMITED TO, THE WARRANTIES AND CONDITIONS OF TITLE, NON-INFRINGEMENT, NON-INTERFERENCE, MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE,;
2. NEITHER IBM NOR ANY SUPPLIER SHALL BE LIABLE TO YOU, OR WILL DEFEND, INDEMNIFY, OR HOLD YOU HARMLESS, FOR ANY CLAIM ARISING FROM OR RELATED TO ANY CODE COMPONENTS. UNDER NO CIRCUMSTANCES IS IBM, ITS PROGRAM DEVELOPERS, OR SUPPLIERS LIABLE FOR ANY DAMAGES ARISING FROM OR RELATED TO ANY CODE COMPONENT, INCLUDING ANY OF THE FOLLOWING TYPES OF DAMAGES, EVEN IF INFORMED OF THEIR POSSIBILITY: I) LOSS OF, OR DAMAGE TO, DATA; II) DIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE, INDIRECT, OR CONSEQUENTIAL DAMAGES; OR III) LOST PROFITS, BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.
3. Your use of Code Components is governed by the terms of the IBM Customer Agreement (or other equivalent applicable agreement) and these Licensed Program Specifications, and not by any terms that may be contained in any other agreement;
4. Future updates (including fixes) to this ICA Program may contain additional Code Components. Such additional Code Components, and any related notices and information will be listed in a notices.txt file that accompanies the relevant update; and
5. The terms and conditions contained in the IBM Customer Agreement or other equivalent agreement that you may have with IBM are offered and agreed to by IBM, and not by any Supplier or other third party.

The **Code Components** are:

- FreeType, Version 2.10.1
- LittleCMS 2, Version 2.9.11
- libpng, Version 1.6.37
- libtiff, Version 4.2.0
- Libjpeg, Version 9.d
- zlib, Version 1.2.11

# FreeType, Version 2.10.1

## The FreeType Project LICENSE

### The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by  
David Turner, Robert Wilhelm, and Werner Lemberg

#### Introduction

=====

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

- o We don't promise that this software works. However, we will be interested in any kind of bug reports. ('as is' distribution)
- o You can use this software for whatever you want, in parts or full form, without having to pay us. ('royalty-free' usage)
- o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. ('credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
""
Portions of this software are copyright © <year> The FreeType
Project (www.freetype.org). All rights reserved.
""
```

Please replace <year> with the value from the FreeType version you actually use.

#### Legal Terms

=====

#### 0. Definitions

-----

Throughout this license, the terms 'package', 'FreeType Project', and 'FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the 'FreeType Project', be they named as alpha, beta or final release.

'You' refers to the licensee, or person using the project, where 'using' is a generic term including compiling the project's source code as well as linking it to form a 'program' or 'executable'. This program is referred to as 'a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

#### 1. No Warranty

-----

THE FREETYPE PROJECT IS PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

#### 2. Redistribution

-----

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- o Redistribution of source code must retain this license file ('FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.
- o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

#### 3. Advertising

-----

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: 'FreeType Project', 'FreeType Engine', 'FreeType library', or 'FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

#### 4. Contacts

-----

There are two mailing lists related to FreeType:

- o [freetype@nongnu.org](mailto:freetype@nongnu.org)

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<https://www.freetype.org>

--- end of FTL.TXT ---

## LittleCMS 2, Version 2.9.11

### The LittleCMS 2 LICENSE

Little CMS engine is provided free of charge under MIT LICENSE

The MIT License  
Little Color Management System  
Copyright (c) 1998-2017 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## libpng, Version 1.6.37

### The libpng LICENSE

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE

=====

PNG Reference Library License version 2

-----

- \* Copyright (c) 1995-2019 The PNG Reference Library Authors.
- \* Copyright (c) 2018-2019 Cosmin Truta.
- \* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
- \* Copyright (c) 1996-1997 Andreas Dilger.
- \* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind, express or implied, including, without limitation, the warranties of merchantability, fitness for a particular purpose, title, and non-infringement. In no event shall the Copyright owners, or anyone distributing the software, be liable for any damages or other liability, whether in contract, tort or otherwise, arising from, out of, or in connection with the software, or the use or other dealings in the software, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this software, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated, but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.



3. This Copyright notice may not be removed or altered from any source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux  
Eric S. Raymond  
Mans Rullgard  
Cosmin Truta  
Gilles Vollant  
James Yu  
Mandar Sahastrabuddhe  
Google Inc.  
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane  
Glenn Randers-Pehrson  
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler  
Kevin Bracey  
Sam Bushell  
Magnus Holmgren  
Greg Roelofs  
Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger  
Dave Martindale  
Guy Eric Schalnat  
Paul Schmidt  
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

## libtiff, Version 4.2.0

### The libtiff LICENSE

#### Acknowledgments and Other Issues

Silicon Graphics has seen fit to allow us to give this work away. It is free. There is no support or guarantee of any sort as to its operations, correctness, or whatever. If you do anything useful with all or parts of it you need to honor the copyright notices. It would also be nice to be acknowledged.

#### Acknowledgements

The libtiff software was written by Sam Leffler while working for Silicon Graphics.

The LZW algorithm is derived from the compress program (the proper attribution is included in the source code). The Group 3 fax stuff originated as code from Jef Poskanzer, but has since been rewritten several times. The latest version uses an algorithm from Frank Cringle -- consult libtiff/mkg3states.c and libtiff/tif\_fax3.h for further information. The JPEG support was written by Tom Lane and is dependent on the excellent work of Tom Lane and the Independent JPEG Group (IJG) who distribute their work under friendly licensing similar to this software. Many other people have by now helped with bug fixes and code; a few of the more persistent contributors have been:

Bjorn P. Brox  
Dan McCoy  
J.T. Conklin  
Richard Minner  
Frank D. Cringle  
Richard Mlynarik  
Soren Pingel Dalsgaard  
Niles Ritter  
Steve Johnson  
Karsten Spang  
Tom Lane  
Peter Smith  
Brent Roman  
Mike Welles  
Frank Warmerdam  
Greg Ward  
Stanislav Brabec  
Roman Shpount  
Peter Skarpetis  
Arvan Pritchard  
Bernt Herd  
Joseph Orost  
Phil Beffery  
Ivo Penzar  
Francois Dagand  
Albert Chin-A-Young  
Bruce A. Mallett  
Dwight Kelly  
Andrey Kiselev  
Ross Finlayson

(my apology to anyone that was inadvertently not listed.)

#### Warning

It appears that Unisys is actively pursuing copyright control on the LZW compression algorithm. In particular, users of the LZW compression within the TIFF framework. For this reason the

TIFF 6.0 spec states that LZW compression is not recommended. It is unclear at this time what compression algorithm will be used in place of it. I have no idea what this means to you or to this library. I make no warranty or guarantees with regard to the LZW support in this library.

Use and Copyright

Copyright (c) 1988-1997 Sam Leffler  
Copyright (c) 1991-1997 Silicon Graphics, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that (i) the above copyright notices and this permission notice appear in all copies of the software and related documentation, and (ii) the names of Sam Leffler and Silicon Graphics may not be used in any advertising or publicity relating to the software without the specific, prior written permission of Sam Leffler and Silicon Graphics.

THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## Libjpeg, Version 9.d

### LIBJPEG License

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

#### LEGAL ISSUES

=====

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

- (1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
- (2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
- (3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's

software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

## **zlib, Version 1.2.11**

### **The zlib LICENSE**

version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

## **Warranty**

This program is warranted as specified in the IBM license.

Licensed Program Specifications may be updated from time to time, and such updates may constitute a change in specifications.

Warranty service, if any, will be provided only through the Basic License location.

Following the discontinuance of all program services, this program will be provided "As Is" as specified in the IBM license.

## **Trademarks**

IBM, the IBM logo, and [ibm.com](http://www.ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available at [Copyright and Trademark information \(www.ibm.com/legal/copytrade.shtml\)](http://www.ibm.com/legal/copytrade.shtml).

The following terms are trademarks or registered trademarks of Ricoh Co., Ltd., in the United States, other countries, or both:

- Advanced Function Presentation
- AFP
- Infoprint
- Mixed Object Document Content Architecture
- MO:DCA
- Ricoh

Adobe and PostScript are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Other company, product, or service names may be trademarks or service marks of others.







Product Number: 5655-TF2

G325-2636-30

