

ICEpdf is an open source Java PDF library ideal for displaying and printing PDF documents within any Java application. The ICEpdf API is 100% Java-based, lightweight, fast, efficient and very easy to use. ICEpdf is 100% Java-based. ICEpdf is capable of rendering PDFs up to version 1.6 (Acrobat 7.0), and provides the following features:

- Seamless integration within Java clients, allowing complete control over the configuration, functionality, and user interface.
- A lightweight static and dynamic memory footprint.
- Easy deployment without the hassles of Java-to-native integration issues.
- Can act as a stand-alone PDF viewer, or can be embedded as PDF viewer component in an application.
- Supports document editing and saving for Link Annotation edits.
- Supports text selection and clipboard functions.
- Search results highlighting in the pages that they occur in.
- Type 4 Function (PostScript Calculator) for greater flexibility and accuracy in color sampling. New in V4.2!
- Support for JBIG2 image compression.
- Render PDFs to image file (PNG, JPEG, GIF) in a server-side web application.
- Robust, efficient, mature PDF parser.
- Supports all PDF embedded font types (Types 0-3, OpenType, TrueType) using the Font Engine included in ICEpdf Pro¹.
- Supports Adobe Standard Security for password-protected documents (40 and 128 bit RC4 or AES).
- Supports interactive link annotation actions; uri, launch and resource.
- Support for JBIG2 and JPEG2000 image compression.

ICEpdf can be used in a multitude of different ways, including:

1) Java PDF Client:

ICEpdf can easily be integrated into any enterprise-level Java application to provide PDF viewing and navigation in a manner not possible with the Adobe Reader® application. This Java PDF Library includes an embeddable PDF viewer for easy integration within Java client applications. ICEpdf can also stand alone as an enterprise class Java PDF Viewer application. ICEpdf Java Viewer provides:

- Acrobat-like GUI and features: Zoom in/out, rotate, next/previous page, fit to window/width/actual size, pan.
- Multipage view support; continuous and side-by-side view types.
- Utility pane supports Outlines (bookmarks) and document search.
- Document Information and Permissions dialogs.
- Print, Print Setup.
- Keyboard shortcuts, mouse-wheel scrolling, drag-and-drop.

2) PDF Content Conversion:

ICEpdf is the ideal technology for the conversion and extraction of PDF content. This Java PDF Library can be used to convert rendered PDF pages to images, SVG documents, and other file formats.

3) PDF Content Extraction:

Use ICEpdf to extract PDF document meta-data, text, and images.

4) PDF Link Annotations:

Configure ICEpdf to support interactive link annotations via a mouse. An annotation callback gives developers flexibility in which types of link annotation actions they wish to support.

¹ ICEpdf is available in two versions: ICEpdf as open source, and ICEpdf Pro, which includes an advanced Font Engine.

Supported Platforms

The ICEpdf product is 100% Java and capable of running on the following JVMs:

Windows:	Linux:	Solaris:	Mac OS X:
Sun J2SE 1.5	Sun J2SE 1.5	Sun J2SE 1.5	Apple J2SE 1.5
Sun J2SE 1.6	Sun J2SE 1.6	Sun J2SE 1.6	Apple J2SE 1.6
Sun J2SE 1.7	Sun J2SE 1.7	Sun J2SE 1.7	N/A

Note: For more information, see the ICEpdf Developer Guide.

Deployment Scenarios

Java Client Deployment

ICEpdf is 100% pure Java and can be used with any J2SE or J2EE JVM, v1.3.1 or greater. ICEpdf is fully deployable using standard mechanisms for Java application deployment, such as an Applet or via Java Web Start. ICEpdf can be deployed to client workstations for interactive PDF viewing and navigation, as well as headless server environments for non-visual PDF content conversion and extraction applications.

Java Servlet (JSP or JSF) Deployment

This ICEpdf Java Library can also be deployed in a Servlet on any Java Application server to render PDF files. ICEpdf acts as a Java EE PDF engine and renders the requested files server side, converts them to a specified image format, and serves the pages back in the form of a standard web page.

ICEpdf Font Engine

The ICEpdf Font Engine* provides embedded font support for:

- Type 1 Fonts (Standard and Multiple Master)
- Type3, CMaps (predefined and Embedded)
- Type 2 CID
- Type 1 (CFF)
- OpenType (CFF Type outlines)
- TrueType, Font Subsets
- Type 0 CID
- Type 0
- OpenType (True Type Outlines)

*The ICEpdf Font Engine is included in the Pro edition of ICEpdf. Refer to the ICEpdf Pro Support Options for pricing and detailed support information.

ICEpdf Support

Investing in ICEpdf Support allows you to develop and deploy your ICEpdf projects with confidence. Customized support packages deliver development and production support for all types of ICEpdf applications. Expert development and deployment advice, along with the added protection of Certified Releases and Emergency Patches, allows your team to assuredly roll ICEpdf applications into a production environment, and maintain them over time.

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Europe: +41 31 329 09 00
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Detailed list of Supported Feature in ICEpdf 3.0	PDF Ref Section	Introduced in PDF Spec Version							ICEpdf	ICEpdf Pro
		1.0	1.1	1.2	1.3	1.4	1.5	1.6		
Filters										
ASCIIStrDecode	3.3.1	✓							✓	✓
ASCIIStrDecode	3.3.2	✓							✓	✓
LZWDecode	3.3.3	✓							✓	✓
FlateDecode	3.3.3			✓					✓	✓
RunLengthDecode	3.3.4	✓							✓	✓
CCITTFaxDecode										
Group 4	3.3.5	✓							✓	✓
Group 3, 1-D	3.3.5	✓							✓	✓
Group 3, 2-D	3.3.5	✓							✓	✓
JBIG2Decode	3.3.6					✓			✓	✓
DCTDecode (No transformations)	3.3.7	✓							✓	✓
File Structure										
File Body	3.4.2	✓							✓	✓
Cross-Reference Table	3.4.3	✓							✓	✓
File Trailer	3.4.4	✓							✓	✓
Incremental Updates	3.4.5					✓			✓	✓
Object Streams	3.4.6							✓	✓	✓
Cross-Reference Stream	3.4.7							✓	✓	✓
Encryption										
Standard Security Handler	3.5.2		✓						✓	✓
Document Structure										
Document Catalog										
Page Layout	3.6.1		✓						✓	✓
Singe Page View	3.6.1	✓							✓	✓
One Column View	3.6.1	✓							✓	✓
Two Column Left View	3.6.1	✓							✓	✓
Two Column Right View	3.6.1	✓							✓	✓
Two Page Left View	3.6.1							✓	✓	✓
Two Page Right View	3.6.1							✓	✓	✓
Page Tree										
Page Objects	3.6.2		✓						✓	✓
Inheritance of Page Attributes	3.6.2		✓						✓	✓
Functions										
Type0 (Sampled) Functions	3.9.1			✓					✓	✓
Type2 (Exponential Interpolation) Functions	3.9.2			✓					✓	✓
Type3 (Stitching) Functions	3.9.3			✓					✓	✓
Graphics										
Graphics States										
Device Independent										
Line Width	4.3.2	✓							✓	✓
Line Cap Style	4.3.2	✓							✓	✓
Line Join Style	4.3.2	✓							✓	✓
Miter Limit	4.3.2	✓							✓	✓
Line Dash Pattern	4.3.2	✓							✓	✓
Alpha Constant	4.3.2					✓			✓	✓
Path Construction										
Cubic Bezier Curves	4.4.1	✓							✓	✓
Sub Paths	4.4.1	✓							✓	✓
Lines	4.4.1	✓							✓	✓
Rectangles	4.4.1	✓							✓	✓
Path-Painting Operators										
Stroking	4.4.2	✓							✓	✓
Filling	4.4.2	✓							✓	✓
Nonzero Winding Number Rule	4.4.2	✓							✓	✓
Even-Odd Rule	4.4.2	✓							✓	✓
Clipping Path Operators	4.4.3	✓							✓	✓
Color Spaces										
Device Color Spaces										
Device Gray	4.5.3		✓						✓	✓
Device RGB	4.5.3		✓						✓	✓
Device CMYK	4.5.3		✓						✓	✓
CIE-Based Color Spaces										
ICCBased Color Spaces	4.5.4				✓				✓	✓
Special Color Spaces										
Pattern Color Spaces	4.5.5			✓					✓	✓
Indexed Color Spaces	4.5.5		✓						✓	✓
Separation Color Spaces	4.5.5			✓					✓	✓
DeviceN Color Spaces	4.5.5				✓				✓	✓
Patterns										
Shading	4.6.3				✓				✓	✓
External Objects										
Image XObjects	4.7	✓							✓	✓
Form XObjects	4.7	✓							✓	✓

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			1.0	1.1	1.2	1.3	1.4	1.5		
Images										
	Decode Arrays	4.8.4	✓						✓	✓
	Image Interpolation	4.8.4	✓						✓	✓
	Masked Images									
	Stencil Masking	4.8.5	✓						✓	✓
	Explicit Masking	4.8.5				✓			✓	✓
	Color Key Masking	4.8.5				✓			✓	✓
	Inline Images	4.8.6	✓						✓	✓
	Form XObjects									
	Form Dictionaries	4.9.1	✓						✓	✓
Text										
Text State Parameters										
	Character Spacing	5.2.1	✓						✓	✓
	Word Spacing	5.2.2	✓						✓	✓
	Horizontal Scaling	5.2.3	✓						✓	✓
	Leading	5.2.4	✓						✓	✓
	Text Rise	5.2.6	✓						✓	✓
Simple Fonts										
	Type 1 Fonts									
	Standard Type 1 Fonts	5.5.1	✓							✓
	Multiple Master Fonts	5.5.1	✓							✓
	TrueType Fonts	5.5.2								✓
	Font Subsets	5.5.3	✓							✓
	Type 3 Fonts	5.5.4								✓
Composite Fonts										
	CIDFonts	5.6.3								✓
	Cmaps									
	Predefined Cmaps	5.6.4								✓
	Embedded Cmap Files	5.6.4								✓
	Type 0 CIDFonts	5.8								✓
	Type 2 CIDFonts	5.8								✓
	Font Descriptors	5.7							✓	✓
Other Font Programs										
	Type 0 Fonts	5.8								✓
	Type 1(CFF)	5.8			✓					✓
	OpenType (True Type outlines)	5.8						✓		✓
	OpenType (CFF Type outlines)	5.8						✓		✓
Interactive Features										
Viewer Preferences										
	Hide Tool bar	8.1	✓						✓	✓
	Hide Menu bar	8.1	✓						✓	✓
	Fit Window	8.1	✓						✓	✓
	Center Window	8.1	✓						✓	✓
	Display Document Title	3.1				✓			✓	✓
	Document Page Mode	8.1	✓						✓	✓
	Outlines	8.1	✓						✓	✓
	Optional content group	8.1	✓						✓	✓
	Print Scaling	8.1						✓	✓	✓
Document-Level Navigation										
	Destinations	8.2.1	✓						✓	✓
	Document Outline	8.2.1	✓						✓	✓
	Link Annotation	8.2.5	✓						✓	✓
	Go To actions	8.2.3	✓						✓	✓
	Go to resource actions	8.2.3	✓						✓	✓
	Go to launch actions	8.2.3	✓						✓	✓
	URI actions	8.2.3	✓						✓	✓
	Annotations*	8.4	✓						✓	✓
	Annotation Flags	8.4.2		✓	✓	✓			✓	✓
	Border Styles	8.4.3			✓				✓	✓
	Appearance Streams	8.4.4			✓				✓	✓
	Annotation Types	8.4.5							✓	✓
	Markup Annotations	8.4.5	✓						✓	✓
	Annotation States	8.4.5						✓	✓	✓
	Text Annotations	8.4.5	✓					✓	✓	✓
	Free Text Annotations	8.4.5				✓			✓	✓
	Line Annotations	8.4.5				✓			✓	✓
	Square & Circle Annotations	8.4.5				✓			✓	✓
	Polygon and Polyline Annotations	8.4.5						✓	✓	✓
	Text Markup Annotations	8.4.5				✓			✓	✓
Interactive Forms										
	Button Fields									
	Push Buttons	8.6.3			✓				✓	✓
	Check boxes	8.6.3			✓				✓	✓
	Radio Buttons	8.6.3			✓				✓	✓
	Text Fields	8.6.3			✓				✓	✓
	Choice Fields	8.6.3			✓				✓	✓

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