

Product Brief

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Overview

IPS PDFt, Zoran's embedded PDF (Portable Document Format) interpreter, provides users the ability to directly send a PDF file to the printer without requiring the document to be opened by an application first. IPS PDFt is offered as part of Zoran's rich-featured embedded foundation technology—IPS. IPS PDFt is ideal for network connected workgroup

printers in a workflow or print-on-demand environment. The PDF standard enables users to fill in forms, transmit, distribute and print, while retaining the look and feel of the document. IPS PDFt supports the transparent imaging model introduced in PDF 1.4 (Acrobat 5), as well as the newest PDF advancements introduced through PDF 1.7, Adobe Extension Level 3 (Acrobat 9).

Benefits

- Delivers a robust, integrated PDF printing solution
- Enables an unopened PDF file to be sent directly to the printer
- Significantly reduces network traffic in workgroup printing environments
- Source code availability provides design flexibility and facilitates value-added customization
- Integrated with Zoran's OnelImage™ common display list technology to support multi-bit and contone output devices

Key Features

- Full compatibility with PDF 1.7, Adobe Extension Level 3 (ISO 32000-1:2008 with Adobe extensions), including transparency and JBIG2/JPEG 2000 compression
- True native PDF interpreter; not a converter
- Supports Monotype Imaging UFST 5.0.1 (MicroType 2 and MicroType 3), Bitstream Font Fusion Printing 3.0 fonts, resident CID fonts, UTF-8 encoding and Monotype Imaging Multiple Master Gold fonts
- Supports variable print resolutions up to 1800 dpi
- Can be combined with the other languages in IPS—IPS FIVE, IPS XLC, IPS PS3 and IPS XPS—for complete print functionality

Description

The PDF Standard

PDF has emerged as a standard file format that preserves documents with all the fonts, graphics, colors and layout of the source document regardless of the application or platform on which it was created. This format provides a practical method for transmitting documents for easy viewing and printing across diverse applications, platforms and printer devices.

Zoran provides complete source code for the IPS PDFt interpreter and a full set of engineering documentation to allow OEMs to customize the interpreters for specific market requirements.

IPS PDFt is integrated with IPS to offer a total solution for high performance print and multifunction peripheral (MFP) controllers. With its layered architecture and application programming interface (API), IPS reduces time-to-market and development costs. The image processing model of IPS PDFt is fully integrated with IPS PS3 for improved compatibility in an efficient memory footprint.

Transparent Imaging Model

Zoran's innovative OnelImage common display list technology has been extended to support native transparency rendering for greatest fidelity to documents created in Adobe Acrobat and other applications used by creative professionals.

Enhanced Security

IPS PDFt supports 128-bit decryption and the ability to restrict printing of PDF documents. IPS PDFt is fully integrated with RSA BSAFE cryptographic software from RSA Security Inc. OEMs have the option to sublicense RSA decryption technology directly from Zoran. Users can encrypt a PDF file with either the AES algorithm or with proprietary RC4 encryption supplied by RSA.

Reduced Network Traffic

With embedded HTTP support, IPS PDFt gives users the option to send a PDF file directly to the printer rather than opening the document first on the PC. This allows the file to travel only once on the network instead of once to the PC and again to the printer.

Host Application

Zoran provides a reference host application to browse and select URLs, send the target URL to the printer and initiate the IPS PDFt print process. The application allows the user to drag a URL to the host application's icon and drop to initiate a single-copy print process.

Product Brief

Description (continued)

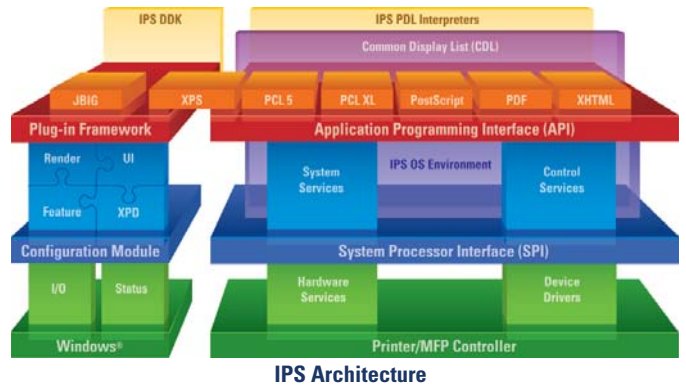
Direct PDF Printing

Integrating IPS PDFt into a printer or MFP, allows for direct printing of PDF files without the interaction of a host system. IPS PDFt can interpret PDF files from a USB key reader installed on a printer or MFP. Users can insert a USB key, select and print a PDF file, with no interaction with a host device, reducing network traffic. PDF printing from the control panel of a printer or MFP increases efficiency and productivity for users.

Zoran Engineering Support Services

Zoran offers Source Code Maintenance and Engineering Support Programs that can shorten development cycles and ensure that the latest PDF language features are available as new controllers are developed. The IPS PDFt source code license includes technical support, software integration training and source code maintenance. The Source Code Maintenance Program provides extended source code maintenance and technical consulting, including informative technical bulletins and software patches and updates.

Zoran's Engineering Support Program provides direct software integration assistance and design recommendations to optimize the interface between the PDF compatible interpreter and the controller. OEMs can also work with a Zoran-authorized development partner. These companies have experience in Zoran's IPS PDFt software integration and can offer fixed-cost, turnkey controller development for a range of controller configurations and print engines.



Specifications

Compatibility

- Direct Monochrome PDF as implemented on the Xerox Phaser 5500
- Direct Color PDF as implemented on the Xerox Phaser 6350
- Adobe Acrobat 9.0 (PDF 1.7, Adobe Extension Level 3 / ISO 32000-1:2008 with Adobe extensions)

Print Resolutions

- Up to 1800 dpi

Output Color Models

- 1, 2, 4 and 8-bit pixel depths
- Monochrome, RGB, CMY and CMYK by plane
- Monochrome, CMY and CMYK by band
- RGB by pixel (8-bit only)

Fonts

- Monotype Imaging UFST 5.0.1
- Monotype Imaging Gold Multiple Master Fonts
- Bitstream Font Fusion Printing 3.0

Memory Requirements

- Minimum: 48 MB (600 dpi, 1-bit)
- Recommended: 256 MB (600 dpi, 1-bit color, transparency)

Paper Size

- Executive, letter, legal, ledger, A3, A4, B4, B5, envelope, others

Duplex Printing Support

N-up Printing Support

Quality Assurance

- QualityLogic ATS, FTS and CET

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