adobe developers association

ada
the source
for technical information

Programme Guide

Autumn 1997

Adobe

about adobe developers association

Would you like to learn more about Adobe technology? Receive technical documentation? Be informed of new development tools? Adobe Systems would like to introduce you to the Adobe Developers Association (ADA).

The ADA provides information and services designed to support third-party developers and keep them up to date as they use Adobe technology in their products.

At the ADA, we publish technical information about many Adobe products and technologies, including the Adobe PostScript® language, Adobe Type Manager® (ATM®), Adobe printer drivers for Macintosh and Windows® platforms, the Adobe Type Library, Type 1 and Far Eastern font technologies, PostScript Printer Description (PPD) and Adobe Font Metric (AFM) files, plug-in application programming interfaces (APIs), and file formats for Adobe Acrobat,® Adobe Illustrator,® Photoshop,® Adobe Premiere,® PageMaker,® FrameMaker,® FrameMaker+SGML, and After Effects.® We encourage you to take advantage of our services to help you in the development process.

If you need accurate, precise data that is tailored just for developers, come to the ADA—the source for technical information!

The Benefits of Joining

The ADA is dedicated to helping you develop the most successful plug-ins and solutions for Adobe technology. We offer our developers the following resources:

- **Software Development Kits (SDKs):** Adobe's SDKs give you a variety of tools that will help you build on the success of Adobe's industry-leading products. Members automatically receive updates as they become available.

Detailed information about the contents of each SDK starts on page 4.

- **Developer Technical Support:** As an ADA member, if you have a development question, you can contact our Adobe Developer Support Engineers (DSEs) by e-mail or telephone.

- **Beta Testing:** Adobe's beta testing program offers developers the opportunity to participate in the software creation process. Some programs give developers advance access to the latest versions of Adobe products and SDKs.

- **Workshops and Training:** Adobe offers workshops that provide select developers with intensive, hands-on training in the latest Adobe products, often before they're released. Interaction with Adobe's engineers and other developers will give you a competitive advantage in your development endeavors. Adobe also offers training for developers. See page 14 for course information.

- **The Web:** Our Web site is the ideal place to explore Adobe and its products. The ADA section is devoted exclusively to the Adobe developer community. There you'll find membership information, technical notes, marketing tips, training schedules, and other developer resources. You can even access some of our SDKs.

Visit *www.adobe.com/supportservice/devrelations/main.html* to take a look for yourself.

Once you've joined the ADA, you'll have access to members-only Web sites that include advance information and even provide the latest SDKs before they are released on CD-ROM.

- *ADA Technical Journal:* Each quarterly issue is packed with articles, tips, and Q&As, by developers, for developers, that address the questions and issues you face every day. Back issues are posted on the ADA's Web pages.

- **Monthly E-mail Updates:** Members receive e-mail updates with all the latest news and information.

- **Discounts on Adobe's Retail Products*:** Substantial discounts on Adobe's retail products are available to our members.

- **Developer Marketing:** Members can learn how to reach thousands of skilled, knowledgeable users and use our tools and materials to construct a marketing plan. See page 12 to learn more about what Adobe Developer Marketing has to offer.

How to Join

It's simple! The Adobe Developers Association offers four separate developers' programmes for you to choose from: Adobe Acrobat Programme, Adobe Frame Products Programe, Adobe Graphics and Publishing Programme, and Adobe Printing Technologies Programme. Please review the following descriptions to see which programme is best suited to your area of development. To join any of these programmes, just complete the application form enclosed or use our on-line application form on the Web: *www.adobe.com/supportservice/devrelations/main.html*.

* Products are strictly for development purposes and are not for resale. Only those Adobe products that have developer interfaces are available through the discount program.

In Europe, contact
Adobe Developers Association
P.O. Box 12356
Edinburgh EH11 4GJ
Scotland, United Kingdom

ADA Helpdesk: +44-131-458-6800
Fax: +44-131-458-6801
World Wide Web: *www.adobe.com/supportservice/devrelations/main.html*
FaxYI Fax-Response System: +44-131-458-3022 (Request document #1220 about membership programmes offered.)

To ask membership questions and for order information, e-mail euroADA@adobe.com

In the U.S., Canada, and outside Europe, contact
Adobe Developers Association
Adobe Systems Incorporated
345 Park Avenue
San Jose, CA 95110-2704 USA

ADA Hotline: 408-536-9000
Fax: 408-536-6883

Adobe Developers Association Programmes

Programme	Technologies Supported	Cost (US & Canada)	Quarterly Technical Journal	Discounts on Most Adobe Retail Products	Developer Technical Support	Software Development Kits or Other Resources	Regular Updates and Upgrades	Other Options
Acrobat	Interapplication Communication, PDF, Plug-ins	$495 per yr. (US dollars)	✔	✔	5 cases per year	Acrobat Plug-ins SDK	✔	Classes, single-case & 5-case support packages, additional support tools
Adobe Frame Products	API for FrameMaker, FrameMaker+SGML & FrameViewer®	$1,000 per yr. (US dollars)	✔	✔	5 cases per year	Adobe Frame Developer's Kit	✔	Single-case, 5-case & 10-case support packages
Graphics & Publishing	Plug-in APIs for Photoshop, Adobe Premiere, Adobe Illustrator, After Effects & PageMaker	$195 per yr. (US dollars)	✔	✔	3 cases per year	Photoshop, Adobe Premiere, Adobe Illustrator, After Effects & PageMaker Plug-in Development Kits	✔	Single-case & 3-case support packages
Printing Technologies	PostScript, ATM, Printer Drivers, PPD, etc.	$395 per yr. (US dollars)	✔	✔	5 cases per year	Printing Technologies SDK	✔	Single-case, 5-case & 10-case support packages

* Products are strictly for development purposes and are not for resale. Only those Adobe products that have developer interfaces are available through the discount program.

adobe acrobat programme

Adobe Acrobat software provides the fastest way to publish documents on-line, in cross-platform Portable Document Format (PDF), which preserves the look and feel of documents created in practically any application. Anyone with free Acrobat Reader software can view, navigate, and print PDF files—even directly within their Web browsers. The Acrobat **Programme** provides all the tools you need to build plug-ins that make Acrobat even more efficient.

Members of the ADA receive the Acrobat Plug-ins Software Development Kit (SDK) with automatic updates. Telephone and e-mail technical support is provided directly from Adobe's Developer Support Engineers. Members also receive the quarterly *ADA Technical Journal*, discounts on Adobe retail products, developer marketing support, and other technical information on a regular basis.

More information about ADA programmes is available on-line at the Adobe Web site: *www.adobe.com/ supportservice/devrelations/main.html*

The Adobe Acrobat Plug-ins SDK

The Adobe Acrobat Plug-ins SDK contains everything you need to develop with Acrobat products:

• Documentation, header files, and sample code for integrating your software with the Acrobat products (Acrobat Exchange, Acrobat Reader, Acrobat Catalog, Acrobat Capture, Distiller, PDF Writer, and Acrobat Search) using interapplication communication (IAC)

The IAC mechanisms provided are DDE and OLE automation on Windows and Apple events on the Macintosh. The UNIX® products currently have no IAC support. Supported development environments for Windows are Visual Basic® (OLE automation only) and Visual C++. Supported environments for the Macintosh are AppleScript and Metrowerks CodeWarrior.

• Documentation, header files, and sample code for creating plug-ins and for using the plug-in API provided by the Acrobat Search, Weblink, and Forms plug-ins

No special license is required to develop plug-ins for Acrobat Exchange. The supported development environments are Visual C++ for Windows, Metrowerks CodeWarrior for the Macintosh, the Hewlett-Packard compiler for HP-UX, the IBM® compiler for AIX, and gcc for SunOS™ and Solaris®.

• Complete documentation about PDF, the file format used by the Acrobat products

• Complete documentation about FDF, the native file format used by the Acrobat Forms plug-in to import and export forms data

• Documentation describing the automatic generation of features, including hypertext links, bookmarks, annotations, articles, and forms through the Acrobat Distiller application

• The Adobe Acrobat Toolkit product, a linkable object code library that allows applications to extract text from PDF files and convert PDF files to PostScript files

You must obtain a license through the Adobe Developers Association to redistribute the Acrobat Toolkit.

All of the Acrobat Plug-ins SDK, except the Acrobat Toolkit, is publicly available on-line for you to download and use. To receive developer technical support, developer marketing support, the quarterly *ADA Technical Journal*, and Web access to the Acrobat Toolkit and SDK updates, you must join the Adobe Acrobat **Programme** in the Adobe Developers Association. Support can also be purchased as individual cases or as a support contract.

The Acrobat Plug-ins SDK is available from the Web *(www.adobe.com/supportservice/devrelations/sdks.html)* and from Adobe's anonymous ftp site *(ftp://ftp.adobe.com/ pub/adobe/devrelations/sdk/acrobat)*.

Acrobat Licensing

Some of the Acrobat products may be licensed for commercial redistribution:

• **Acrobat Reader** (freely distributable)

• **Acrobat Exchange** (fee-based, license required)

• **Acrobat** (fee-based, license required)—the complete package including Acrobat Exchange, Distiller, PDF Writer, Acrobat Catalog, the Acrobat Capture plug-in, and other plug-ins

• **Acrobat Toolkit** (fee-based, license required)—an object code library that allows the extraction of text from PDF files and conversions of PDF to PostScript files. Currently available for HP-UX, SunOS, Solaris, AIX, IRIX,™ Windows NT,® and Windows 95 platforms.

• **Acrobat Reader Plug-ins Programme** (fee-based, license required)—for a low, one-time fee, the key and license necessary to write and distribute plug-ins that work with Acrobat Reader.

Please contact the Adobe Developers Association for further information on how to license these products.

Acrobat API Overview

Acrobat Exchange/Acrobat Reader IAC

Acrobat Reader software supports only the Apple events and DDE messages that allow another application to launch the Acrobat Reader, open a PDF file, print a PDF file, and exit the Acrobat viewer. The Acrobat Reader has no support for OLE automation.

Acrobat Exchange software provides a range of DDE, OLE automation, and Apple event support that is intended primarily to allow another application to programmatically control Acrobat Exchange in much the same way as a user would: opening files, closing files, printing pages, scrolling, zooming, and going to specific pages. IAC calls are also provided for displaying a PDF file in another application's window (see the section "Displaying in Another Application's Window").

Acrobat Exchange Plug-in API

Acrobat Exchange software supports a very broad plug-in API that will allow you to write a plug-in to perform, among other things, the following functions:

- Modify the user interface by adding or removing menus, menu items, or toolbar buttons
- Extract text from PDF files
- Programmatically print one or more files
- Add new types of actions and annotations
- Store and use private data in PDF files
- Write a replacement file system that, for example, can directly access files in a database
- Implement a security handler that, for example, uses a subscription file instead of having the user type a password
- Provide functions that other plug-ins can call
- Display PDF files in another application's window (see the section "Displaying in Another Application's Window")

Displaying in Another Application's Window

Acrobat Exchange provides various ways to display a PDF file in another applicatio's window. Acrobat Reader can only provide this using ActiveX™ on the Windows platform.

On the Windows platform:
- ActiveX™ (32-bit Windows only)
- OLE automation
- Plug-in API calls for displaying a live document or a static bitmap

On the Macintosh platform:
- Apple event call for displaying a static bitmap
- Plug-in API calls for live document or static bitmaps

On the UNIX platform:
- Plug-in API calls for live document or static bitmaps

Acrobat Exchange and Acrobat Reader programs for all platforms also support a Netscape plug-in, but the Adobe Developers Association provides no support for developers who choose to use this.

Acrobat Capture

Acrobat Capture technology is available in two products: the Acrobat Capture application and the Acrobat Capture plug-in.

Version 2.0 of the Acrobat Capture application provides an OLE automation interface that allows another application to programmatically set Acrobat Capture software's input, output, and file processing options. In addition, the interface allows another application to process one or more files.

The Acrobat Capture plug-in (which is included in Acrobat 3.0) does not have any APIs.

Acrobat Catalog

Acrobat Catalog supports DDE and Windows messages under Windows but provides no IAC support on the Macintosh.

Using Windows messages, an application can query the Acrobat Catalog program to see if it is busy or idle. In addition, the Acrobat Catalog program can notify an application when a build has completed successfully, stopped, or failed.

Using DDE, an application can open an index definition (.PDX) file, build an index using an index definition file, and quit the Acrobat Catalog program.

Distiller

The Distiller application supports Windows messages under Windows and Apple events on the Macintosh. Using these, an application can run the Distiller application, distill a file, specify an output pathname, and quit the Distiller application.

The Distiller application also supports three special commands in PostScript files: **setdistillerparams**, **currentdistillerparams**, and **pdfmark**.

The **setdistillerparams** command sets the Distiller application's processing options:

- Page orientation and automatic orientation detection
- Font embedding
- Image compression, conversion, and downsampling
- Text and graphics compression
- Halftone preservation, OPI, transfer function, undercolor removal (UCR), black generation (BG), and overprint information

The **currentdistillerparams** command retrieves the current values of all processing options, as well as the Distiller's version number.

The **pdfmark** command specifies PDF features that are not supported by the PostScript language, including bookmarks, links, articles, Acrobat form fields, page cropping, and document information.

Acrobat Toolkit

The Acrobat Toolkit is an object code library that provides function calls for extracting text from PDF files and for converting PDF files to PostScript language files.

PDF Writer

The PDF Writer can be controlled by placing information in an **initialisation** file.

On the Macintosh, the **initialisation** information is placed in a PREC resource in the PDF Writer and provides the following controls:

- Sets the output filename of the PDF file that the PDF Writer creates
- Suppresses the Page Setup and Print dialog boxes
- Requests that the Acrobat viewer be launched to display the output file immediately after PDF Writer has finished creating that file

On Windows, the information is placed in the **WIN.INI** and **PDFWRTR.INI** files and provides the following controls:

- Suppresses the PDF Writer dialog box from appearing on-screen
- Specifies the pathname of the PDF file that is created
- Sets the page orientation (portrait or landscape)
- Selects and sets a custom page size
- Controls the compression used in the PDF file
- Controls font embedding

In addition, the Acrobat PDF Writer on Windows sends broadcast messages when it starts and finishes creating a PDF file.

Acrobat Search Plug-in

The Acrobat Search plug-in provides plug-in API methods and IAC when used with Acrobat Exchange software. Neither the API methods nor IAC is available when the Acrobat Search plug-in is used with the Acrobat Reader. The IAC mechanism is DDE under Windows and Apple events on the Macintosh. No IAC support is provided on UNIX platforms.

Using either the plug-in API or IAC, developers can

- Control the list of indexes being searched
- Construct and initiate a search with options (whole word, match case, etc.)

You cannot programmatically retrieve the results list (the list of documents that match the search query); the results list always appears in the Acrobat Search plug-in's window.

Weblink Plug-in

This plug-in API method accepts a URL and follows it.

Acrobat Forms Plug-in

The Acrobat Forms plug-in provides plug-in API methods that import or export forms data and get and set the values in fields.

adobe frame products programme

Adobe FrameMaker, Adobe FrameMaker+SGML, and Adobe FrameViewer software give users the power to publish the most challenging documents, such as books, manuals, and catalogs. The Frame Products Programme provides all the tools you need to customise and add functionality to these products to meet practically any information authoring and publishing need.

Members of the ADA receive the Frame Developer's Kit (FDK) with automatic updates. Telephone and e-mail technical support is provided directly from Adobe's Developer Support Engineers. Members also receive the quarterly *ADA Technical Journal,* discounts on Adobe retail products, developer marketing support, and other technical information on a regular basis.

More information about ADA programmes is available online at the Adobe Web site: *www.adobe.com/supportservice/devrelations/main.html*

The Frame Developer's Kit

The Frame Developer's Kit (FDK) is a cross-platform development environment that contains everything you need for creating programs to enhance or control FrameMaker, FrameMaker+SGML, and FrameViewer. The Frame application programming interface (API) enables you to create API clients with other applications, such as a database, document management system, CAD tool, user interface, automation, and database publishing.

The FDK includes these tools:

- Set libraries, header files, and makefiles
- Custom dialog box editor
- Configurable user interface
- Debugging and error-checking routines

System Requirements

Macintosh
- System 7.5 or later.
- Symantec SC compiler from E.T.O 19 or later. This compiler only works in Macintosh Programmer's Workshop (MPW) CodeWarrior IDE (DR11)

Windows
- Windows NT 4.0 or Windows 95
- Microsoft Visual C 4.x or 5.0

UNIX

Workstation	Compiler
• SPARCstation® running SunOS 4.1.3-v1, 4.1.4	Sun Solaris HP, AIX use gcc 2.0 or later. SunOS native cc compiler or gcc
• SPARCstation running Solaris 2.5	Sun Solaris HP, AIX use gcc 2.0 or later. SunOS native cc compiler or gcc
• Hewlett-Packard 9000 Series 700 or 800 running 10.20	Sun Solaris HP, AIX use gcc 2.0 or later. SunOS native cc compiler or gcc
• IBM RS/6000™ running AIX 4.1.3, 4.2	Sun Solaris HP, AIX use gcc 2.0 or later. SunOS native cc compiler or gcc
• Silicon Graphics® Indigo,® Indy™ running IRIX 6.2, 6.3	C compiler distributed with IRIX native cc compiler or gcc

Examples of what other developers have created with the FDK:

- **Database Publishing:** Shrink-wrapped plug-in products query data from a database and populate a FrameMaker document.
- **Shop Floor Automation:** FrameViewer was used at a disk drive repair facility in Malaysia to repair a disk drive with a bar code reader. An API client returned the appropriate repair procedure for that specific drive. This information was dynamically placed in repair tables based on the disk to be repaired. Another API client downloaded information every four hours from a UNIX server in California to the Macintosh server in Malaysia, which then distributed the documents to several workstations on the shop floor.
- **Context-Sensitive Help Systems:** Software applications have used the FDK with FrameViewer to provide a help system on multiple platforms.
- **Format Standardisation:** To ensure adherence to corporate standards of certain formatting, access was restricted to certain formatting features or documents were checked for style overrides.
- SGML Import/Export Functionality Customisation

adobe graphics and publishing programme

Adobe Photoshop, Adobe Illustrator, Adobe PageMaker, Adobe Premiere, Adobe PhotoDeluxe,™ and Adobe After Effects are the leading image editing, graphic design, and video application products on the market. Build on Adobe's years of experience in refining these flagship products, which have a large base of loyal customers, by developing plug-ins that let you extend and customise the power of Adobe's products. The Graphics and Publishing Programme provides all the tools you need to build a plug-in.

Members of the ADA receive the Graphics and Publishing (GAP) Software Development Kits (SDKs) with automatic updates. Telephone and e-mail technical support is provided directly from Adobe's Developer Support Engineers. Members also receive the quarterly *ADA Technical Journal*, discounts on Adobe retail products, developer marketing support, and other technical information on a regular basis.

More information about ADA programmes is available online at the Adobe Web site: *www.adobe.com/supportservice/ devrelations/main.html*

The Graphics and Publishing SDK

Adobe provides a wide range of software development kits (SDKs) for our graphics and publishing application programs. These development kits contain the latest information about the application programming interfaces (APIs), giving you the most current tools for your development needs.

Each SDK contains complete documentation, code samples, project files, and other materials for each supported platform. All the SDKs described below are included on the Graphics and Publishing SDK CD-ROM, available from the Adobe Developers Association.

Adobe Photoshop

The Adobe Photoshop 4.0 program is the market leader for photo retouching, image editing, and colour painting applications for both Mac OS and Windows platforms.

Photoshop plug-ins, created with the Photoshop SDK, are enormously popular with Photoshop users. These plug-ins are supported in many Adobe applications including Adobe Illustrator, PageMaker, Adobe Premiere, PhotoDeluxe, and After Effects.

The API for Adobe Photoshop 4.0 has been expanded to support three new features: actions, custom selections, and colour pickers.

"Action-aware" plug-ins can be controlled automatically by actions that users create, edit, and save. Users can then run actions, automatically executing your plug-in with parameters stored in the action.

The custom selection API allows you to develop a new type of plug-in that can create selections as bitmaps or as Bézier paths. Selection plug-ins extend the sophisticated selection and pen tools found in Photoshop software.

The colour picker API allows you to develop custom colour picker dialogs and easily integrate them into Photoshop software.

The Photoshop SDK contains more than 200 pages of reference documentation in Portable Document Format (PDF) and a dozen sample plug-ins. The Plug-in Resource Guide gives detailed information on developing Photoshop plug-ins that work with other Adobe applications.

Adobe PageMaker

The Adobe PageMaker application is a powerful desktop publishing system with sophisticated colour printing features. Version 6.5 extends these capabilities to support easy creation and layout of on-line documents.

The PageMaker plug-in interface lets you create a personalized publishing environment that extends and customises PageMaker software's features.

The PageMaker Class Library offers a powerful yet simple C++ interface to commands and queries, providing programmatic access to PageMaker software's menu commands, tools, and publication data from a plug-in. Commands and queries also form the basis for end-user scripting and interapplication communication.

PageMaker 6.5 adds new API features beyond the command and query interface. The new C++ based component interface allows you to create non-modal windows and integrate your plug-in with the PageMaker event system. It also provides access to new features of version 6.5, including hyperlinking, frames, layers, and the intelligent layout engine. Finally, the component interface offers a high-performance way to access and manipulate graphic and text objects in a PageMaker publication.

The PageMaker 6.5 SDK includes extensive on-line documentation in PDF and HTML, with hyperlinks to the SDK source code.

Adobe Illustrator

Adobe Illustrator 7.0 software is a sophisticated vector-based graphic design application for Mac OS, Windows 95, and Windows NT. It is used in a wide range of technical and creative illustration environments.

Adobe Illustrator features a large and robust plug-in API; many of the program's "built-in" features are actually implemented as plug-ins. You can use the API to create and transform Bézier path objects, create or modify raster and text objects, place EPS files, and import or export non-native file formats.

You can customise the Adobe Illustrator application with plug-ins by creating new tools, floating palettes, and menus that interact with the user exactly as those in the application do. Your plug-in can be notified whenever events (such as mouse clicks) occur in a document, allowing it to respond directly to user input. The Adobe Dialog Manager provides a cross-platform user interface tool kit.

The Adobe Illustrator API contains more than 500 functions divided into approximately 60 suites. Each suite groups common functions into a logical package for use by plug-ins. New suites can be added dynamically; a plug-in can publish suites that other plug-ins can acquire and use.

The development kit contains more than 650 pages of documentation in PDF. It also includes more than a dozen sample plug-ins with complete source code and project files.

Adobe Premiere

The Adobe Premiere program is a nonlinear video editing application for Mac OS and Windows platforms. Media clips, including movies, graphics, and sounds, are collected in a project and then edited and compiled into digital movies. Users employ transition effects to combine or connect two clips, and audio and video filters to produce distortions or other special effects to individual clips.

Using the Adobe Premiere API, you can create sophisticated transition effects and filters. Your plug-in's user interface is integrated with Adobe Premiere software to allow the user to preview the effect or filter. Custom dialog boxes can provide additional user interface controls.

Other plug-in types described in the SDK include data export modules to export movie clips to other file formats, EDL export modules to export edit decision lists, zoom modules (Mac only) to handle hardware zooming and video mode switching, and hardware control modules to control devices like VCRs and camcorders. Additional documentation is available to hardware developers to integrate their products with Adobe Premiere.

The SDKs for Mac OS and Windows platforms include a 150-page programming guide and 10 plug-in examples with source code and project files.

Adobe After Effects

Adobe After Effects software is a digital post-production application for Mac OS, Windows 95, and Windows NT that complements Adobe Premiere, Photoshop, and Adobe Illustrator software. After Effects combines high-resolution compositing, controls for multilayer compositions, 2D animation, and advanced effects capabilities for time-varying special effects. Users can output their final result to QuickTime, D-1, or film.

You can create powerful plug-in effects that can be applied in the After Effects rendering engine. The API also offers an elegant way to integrate your plug-in's user interface (buttons, sliders, controls, and more) within After Effects dialog boxes, providing seamless integration for the user.

After Effects supports Adobe Photoshop 3.0 compatible filter, format, and parser plug-ins. Filters can be applied to still images or to video segments. Photoshop filters that contain an After Effects animation resource can automatically vary their parameters over time.

You can also write input/output modules to manipulate a variety of media types. The application supports the Adobe Photoshop file format specification (8BIF) and extends it to time-based and non-file-based formats.

Development Environments

All Graphics and Publishing SDKs are designed to work with the latest versions of Metrowerks CodeWarrior under Mac OS and Microsoft Visual C/C++ under Windows NT or Windows 95 platforms. All programming examples are written in ANSI C or C++ and include all necessary project files, header files, and resources.

● adobe printing technologies programme

The Adobe Printing Technologies Programme enables you, the application developer, to enhance the user's printing experience by ensuring that your product supports Adobe's core technologies across operating systems and languages.

Members of the ADA receive the Printing Technologies Software Development Kit (SDK) with automatic updates. Telephone and e-mail technical support is provided directly from Adobe's Developer Support Engineers. Members also receive the quarterly *ADA Technical Journal,* discounts on Adobe retail products, developer marketing support, and other technical information on a regular basis.

More information about ADA programmes is available on-line at the Adobe Web site: *www.adobe.com/supportservice/ devrelations/main.html*

The Printing Technologies SDK

This Software Development Kit (SDK) contains most everything you need to support Adobe PostScript language technology from Adobe Systems. The CD-ROM collects, in one package, an extensive set of tools and reference materials to help applications generate Adobe PostScript language files. Also included are Adobe printer drivers, font programs, and other software to enable you to test application compatibility.

Look for our next SDK featuring Adobe PostScript 3™ in the summer of 1997.

If you have a Windows or Macintosh application, the SDK offers these tools:

- Tips and software for testing with Adobe printer drivers
- Techniques for incorporating advanced type handling using the Adobe Type Manager (ATM) application programming interface (API)
- Device-independent colour support
- PostScript printer description (PPD) files to use printer capabilities
- Adobe software products for compatibility testing
- PostScript Level 2 operators and features

Specifications and Protocols

- Adobe PostScript Printer Description File Format (v. 4.3)
- Adobe Font Metrics File Format (v. 4.1)
- Glyph bitmap distribution file format (BDF)

- JPEG technical specification
- Adobe serial and parallel communications protocols
- Adobe binary screen font file format (ABF)
- Adobe PostScript language file transmission specification
- Adobe SCSI input protocol specification
- Adobe standard Cyrillic font specification
- Adobe CMap and CID font files specification

Reference Manuals

- *Adobe PostScript Language Reference Manual,* Second Edition
- *Adobe PostScript Language Program Design*
- *Adobe PostScript Language Tutorial and Cookbook*
- *Adobe Type 1 Font Format*
- *The PDF Manual: Portable Document Format Reference Manual*

Technical Notes

- Support of PostScript Level 2 functionality
- Support of data compression in PostScript Level 2 and the **filter** Operator
- Emulation of the **setstrokeadjust** Operator
- Emulation of the **rectclip**, **rectfill**, and **rectstroke** Operators
- Support of the DCT filters in PostScript Level 2 software
- Timing techniques
- Emulation of the **makepattern** and **setpattern** Operators
- PostScript printer driver optimisation case study
- PostScript language code optimisation: rectangles
- Emulation of the **execform** Operator
- Support of fonts in the PostScript environment
- Advanced path construction using PostScript Level 2 features
- Overview of the generic text interface
- Binary token and user paths
- Simple text-setting calculations
- PostScript Level 2 software compatibility: the **setscreen** and **currentscreen** Operators
- Support of downloadable PostScript fonts
- Font switching optimisations
- Device-independent color in PostScript Level 2 software

Technical Notes (continued)

- Roman font re-encoding issues
- Matching RGB colour from monitor to printer
- Supporting device features
- Colour images using colour lookup tables
- Fast text rendering
- PPD file parser: application programming interface
- Supporting PostScript fax
- PostScript Level 2 and fax modem printing
- Using Save outside the server loop
- Updates to the *Adobe PostScript Language Reference Manual,* Second Edition
- *Adobe Type 1 Font Format* Supplement
- Selecting binary communications protocol and host switching between the PostScript interpreter and emulators
- Technical tips for Macintosh applications using Adobe Type Manager
- Adobe Type Library addendum, IBM PC version
- Multiple master font programs for the Macintosh
- Adobe Type Manager software API: Macintosh
- Macintosh FOND Resources
- Adobe Type Manager software API: Windows
- Adobe Type Manager software API for multiple master fonts: Macintosh
- Gaiji in PostScript printers
- *Adobe PostScript Language Reference Manual* supplement for Versions 2015 and earlier
- Sonata® font design specification
- Character height variations as a function of resolution
- JPEG source vendor list
- The **stemsnap** hint Operator for Type 1 font programs
- Bar code vendor list
- Windows application tips for PostScript language printer drivers

Sample Code and Files
Sample code is generic C or PostScript language source code, which has been tested on at least one platform. Some code may need to be modified to work with your application or to compile on your specific platform. The following is a list of included files.

Colour API Code	L2 Paths
ATM API	Development Tools
AFM Parser	Patterns
GetFace Sample Code	ehandler.ps
AFM Files	Rectangles
SDK Prolog	PSTool
Japanese AFM Files	Re-encoding
TiffToPS	PCSend
PPD Parser	Stroke Adjust
Timing	PSDown
PPD Files	Generic Text
Blue Book Files	Colour
Forms	Green Book Files
CLUT	Filters
Black Book Files	Fax
SCSI	

Software Applications Included (Macintosh and Windows)

Type On Call® software (bundle version)
A CD-ROM version of the Adobe Type Library (available for unlocking individual fonts)

Font programs
A variety selected to test software's ability to handle the extremes of font parameters (e.g., kerned pairs and character sets)

Acrobat Reader 3.0 for Macintosh, Windows, and UNIX
View, navigate, and print Portable Document Format (PDF) files; search plug-in provided

Adobe Type Manager
Several versions included for compatibility checking: ATM Deluxe 4.0 for the Macintosh, ATM Deluxe 4.0 for Windows 95, ATM Deluxe 4.0 for Windows NT 4.0, ATM J 3.2 for Windows

Macintosh Printer Driver
Versions 8.3, 8.31 (including international versions)

Windows Printer Driver
Versions 4.1, 4.2 (Windows 95)
Versions 2.1, 3.01 (Windows 3.1)

Lasertalk™ for Macintosh and Windows
A complete set of features to help you debug PostScript language programs

adobe developer marketing

An Organisation Committed to Your Success

Now you can stay focused on what you do best—designing innovative products. That's because Adobe offers sales, distribution, and marketing support for the plug-ins that you create for Adobe applications. Combined with the technical support that you receive as a member of the Adobe Developers Association (ADA), Adobe Developer Marketing gives you the resources you need to capitalise on your innovations.

Adobe Developer Marketing offers a range of services designed especially to help you meet your distribution, sales, public relations, and other promotional needs efficiently and cost-effectively.

Distribute Your Products Through the Adobe Plug-in Source

Rather than pursue costly, traditional channels of distribution, you can sell your products through the Adobe Plug-in Source. It gives you immediate access to Adobe customers worldwide.

The *Adobe Plug-in Source Catalog* is mailed regularly to approximately 200,000 customers in the United States and Canada. And by working with Adobe Developer Marketing, you also can access distribution resources in Europe and the Pacific Rim.

Build Your Press Coverage

Make sure that readers of the leading trade publications know about your plug-in products. Adobe Developer Marketing offers a free public relations guide that contains step-by-step press-release strategies.

When you have a product ready for market, let Adobe Developer Marketing help you get editorial coverage in Adobe Magazine. You may also wish to advertise your plug-in products here. We'll provide a developer discount!

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Adobe's major application packages contain Deluxe CD-ROMs filled with bonus content. You can include your own trial software on these discs and reach millions of prospects by informing Adobe Developer Marketing of your product plans. We will place developer content on CDs dependent on product schedules and deliverables.

Get Exposure On-line

Adobe maintains a home page on the Internet's World Wide Web (*www.adobe.com*), as well as forums on America Online and CompuServe. With these resources, Adobe Developer Marketing can help you upload your product demos to on-line services, include your product information on Adobe's home page, or build links between Adobe's home page and yours.

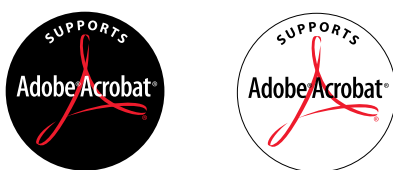## Special Marketing Programmes for Acrobat Developers

Adobe Systems Incorporated provides marketing programmes to assist Acrobat developers in marketing their products.

Acrobat Logos

Adobe provides three different Acrobat logos for developers to use. These logos can be printed on product boxes, literature, even directly on CD-ROMs. There is no license fee for these logos; however, developers must complete a license agreement to receive, use, and reproduce these logos.
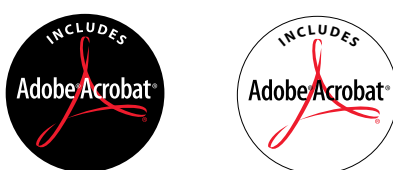
Supports Adobe Acrobat
Use this logo for products that are integrated with or support Adobe Acrobat. The license agreement may be obtained from the Adobe Acrobat Plug-ins SDK CD-ROM.

Includes Adobe Acrobat
Use this logo for products that are bundled with Acrobat Reader or Acrobat Exchange. If you are redistributing the Adobe Acrobat Reader in your product, you may use the "Includes Adobe Acrobat" logo. The "Includes Adobe Acrobat" logo files are available in EPS format on our Web site at *www.adobe.com/prodindex/acrobat/ distribute.html.*

Plug-in for Adobe Acrobat
Use this logo for products that include a custom plug-in for Adobe Acrobat. The license agreement may be obtained from the Adobe Acrobat Plug-ins SDK CD-ROM.

Please note: These are the only Acrobat logos that you may use on your product. There are also restrictions as to how you can use the words *Adobe Acrobat* in your packaging.
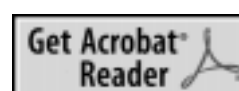
Third-Party Catalog
Adobe publishes *Adobe Acrobat Software: A Guide to Related Products and Services,* a catalog of information for Acrobat users and developers. Any product that supports or includes Acrobat can be added to this catalog. Also, space in this catalog is available to companies or developers who provide Acrobat related services.

Adobe Acrobat Software: A Guide to Related Products and Services is distributed in a number of ways, including an electronic version that is shipped with the Acrobat products and on our Web site (*www.adobe.com*). By including your product or service in this catalog, you have direct access to Acrobat customers and developers.

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If you are posting PDF files on your Web site, you can use the "Get Acrobat Reader" button and the PDF file icons. The "Get Acrobat" button directs visitors to instructions for downloading the free Adobe Acrobat Reader. The PDF file icon can be used to represent the PDF files you post on your site. Once visitors download and install the Adobe Acrobat Reader, they can view any PDF file on your Web site. Complete instructions, the license agreement, and the files you'll need can be found on our Web site at *www.adobe.com/prodindex/acrobat/distribute.html.*

adobe developer training

Acrobat Developer Training
Course descriptions & availability - email: euroADA@adobe.com

Class One:
Integrating Applications With Adobe Acrobat
Products Using Interapplication Communication (IAC)

Length: 1 day

Class Two:
Developing Adobe Acrobat Exchange Plug-ins

Length: 2 days

Frame Developer Training
Course descriptions & availability - email: euroframecentre@adobe.com

Class One:
FrameMaker+SGML
Defining Structure: EDDs & Conversion Tables

Length: 2 days

Class Two:
FrameMaker+SGML
Importing and Exporting SGML

Length: 2 days

Class Three:
FrameMaker+SGML
Customising SGML Import and Export using FM+SGML API

Length: 3 days

Class Four:
FrameMaker
Developing FDK Client Applications

Length: 5 days

PostScript Developer Training
Course descriptions & availability - email: eur-psd-devsup@adobe.com

Class One
Practical Issues in PostScript Systems

Length: 1 day

Class Two:
The PostScript Language - Level 1

Length: 3 1/2 days

Class Three:
The PostScript Language - Level 2

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Adobe Developers Association
P.O. Box 12356
Edinburgh EH11 4GJ, United Kingdom
Phone +44-131-458-6800 Fax +44-131-458-6801
Email euroADA@adobe.com

Membership Application

Please complete this form for membership in Adobe's Developer Programmes.

Member Information

Please print, or attach your business card. As your group's contact, you will receive the software development kit and all membership information.

Contact Name

E-Mail *(required)*

Title

Company

Street Address

City

Postal Code

Country

Telephone

Fax

Company URL

Background Information

List your product(s) or area of development. Attach literature or supply information about your company's background and how your product(s) will use Adobe technology.

What is your objective in working with the Adobe Developers Association?

What operating environment does your product(s) currently support? *(Select all that apply.)*

☐ Macintosh   ☐ Microsoft® Windows®   ☐ MS-DOS®   ☐ X Window System™   ☐ OS/2®   ☐ NeXTSTEP™   ☐ VMS™

☐ UNIX®   ☐ SunOS™/Solaris®   ☐ HP   ☐ IBM®   ☐ DEC™   ☐ Silicon Graphics®

Method of Payment

☐ Cheque   ☐ VISA   ☐ Access   ☐ MasterCard™   ☐ Eurocard

Credit Card Number:

Issue Date:

Expiry Date:

Cardholder Name:

Signature:

Payment Terms
• Make cheque payable to Adobe Systems Direct Ltd

• Sorry, we cannot accept purchase orders.
• All prices are listed in U.S. dollars

If credit card billing address is different from the member information address you provided, please provide the billing address here:

Street Address

City

Postal Code

Country

NOTE: This entire application must be completed before membership can be approved.

Annual Membership

Please select the developer programme(s) you would like to join by checking the appropriate box to the left of the programme name.   Note: All prices are in U.S. dollars.

☐   _____

☐ **Adobe Printing Technologies Programme** $395   _____
This annual membership includes the Printing Technologies SDK, any updates, quarterly *ADA Technical Journal,* discounts on Adobe products, and five developer technical support cases. Additional cases may be purchased at any time. See below for pricing.

☐ **Adobe Graphics and Publishing Programme** $195   _____
This annual membership includes the Graphics and Publishing SDK, any updates, quarterly *ADA Technical Journal,* discounts on Adobe products, and three developer technical support cases. Additional cases may be purchased at any time. See below for pricing.

If you are joining this programme, we require the following additional information.
Please select the Adobe application(s) for which you will be developing plug-ins:

☐ Adobe Illustrator®   ☐ Adobe Photoshop®   ☐ Adobe Premiere®   ☐ Adobe PageMaker®   ☐ Adobe After Effects®

You may purchase an additional support package, which includes three support cases. Just select the option below.

☐ Additional three-case technical support package for $195 U.S. (*available for this programme only*).

☐ **Adobe Frame® Products Programme** $1,000   _____
This annual membership includes the Frame Developer's Kit, any updates, quarterly *ADA Technical Journal,* discounts on Adobe products, and five developer technical support cases. Additional cases may be purchased at any time. See below for pricing.

If you are joining this programme, we require the following additional information.
Please select the Adobe application(s) for which you will be developing plug-ins:

☐ FrameMaker®   ☐ FrameMaker+SGML   ☐ FrameViewer®

With what will you be doing integration?

☐ MIF   ☐ MML   ☐ Frame Developer's Kit

☐ **Adobe Acrobat® Programme** $495   _____
This annual membership includes the Acrobat Plug-ins SDK, any updates, quarterly *ADA Technical Journal,* discounts on Adobe products, and five developer technical support cases. Additional cases may be purchased at any time. See below for pricing.

☐ **Adobe Acrobat Reader Plug-ins Programme** $100   _____
An Acrobat Reader Plug-ins Contract is also required. A PDF version of this contract is available on our World Wide Web site at *www.adobe.com*
Look under Support & Services for Developer Relations. Or call our FaxYI fax-response system at+44-131-458-3022 and request document #1234.
Please include this signed contract with the application form you submit to the ADA.

☐ **Additional Technical Support Packages** (applicable to all programmes, except Graphics and Publishing)   _____
Additional technical support cases can be purchased in quantities of one-, five-, or ten-case packages. You may purchase them now or at any time during your membership. If you would like to purchase additional support packages now, please select from the options below:

☐ One-case technical support package for $125   ☐ Five-case technical support package for $500
☐ Ten-case technical support package for $1,000

☐ VAT - Number _____UK VAT at 17.5% MUST be added to all orders EXCEPT   _____
   1. For EC Residents (excluding the UK) locally registered for VAT - no VAT should be added but only on provision of a local VAT number (inc. Country Prefix)
   2. For Residents of Countries outside the EC, no VAT should be added

☐ **Discount**   _____
Deduct $100 discount if you join 2 or more programmes, excluding Acrobat Reader Plug-Ins Programme

Total _____

Signature and Agreement

I certify that the information provided in this application is, to the best of my knowledge, true and correct. The Adobe Developers Association is intended for development teams who are using Adobe technologies (the PostScript® page description language, Adobe Acrobat, Adobe Type Manager, Adobe Frame products, or plug-ins for Adobe After Effects, Adobe Illustrator, Adobe PageMaker, Adobe Photoshop, or Adobe Premiere) to be compatible or work in conjunction with their products. Adobe reserves the right to modify the terms and conditions of the Adobe Developers Association programme and, at any time at its discretion, may revoke your participation in this programme.

Name	Title

Signature	Date

Return to

Adobe Developers Association
P.O. Box 12356
Edinburgh
Scotland, United Kingdom

Fax: +44-131-458-6801. Email euroADA@adobe.com
Attn: Adobe Developers Association

Remember to

• Complete the entire application.
• Include the company and product information requested.
• Sign the agreement.
• Include payment or credit card information.

	USD	GBP	DEM	BEF	DFL	FFR	CHF	ATS	SEK	PTS	ITL
Printing Technologies	**395**	245	660	13,600	740	2,220	565	4,700	3,000	57,000	673,000
Graphics & Publishing	**195**	120	325	6,700	365	1,100	280	2,300	1,480	28,000	332,000
Frame Products Developers Prog.	**1,000**	620	1,665	34,400	1,875	5,620	1,430	11,800	7,600	143,000	1,702,000
Acrobat Plug-Ins	**495**	310	825	17,000	925	2,780	710	5,800	3,760	71,000	843,000
∆Reader Plug-Ins	**100**	65	170	3,500	190	560	145	1,200	760	15,000	171,000

∆ To join Reader Plug-Ins programme, you must also have an Acrobat Plug-Ins Membership