

4th Dimension 2003 – New features to increase efficiency, productivity, and cost savings

Web Services and Application Integration

4th Dimension 2003's commitment to technology standards

- Support for Web services - Provides different applications with the ability to "talk" and exchange information with each other as if they were a single application
- Support for SOAP (Simple Object Access Protocol) as both a client and server – information can be exchanged, regardless of platform
- Support for XML data exchange, including XML import/export capabilities
- Compatible with .NET or any other Web service platform - Integrate data from 4th Dimension applications with other Web service enabled applications
- Seamlessly integrate existing 4th Dimension databases with Web services technology — virtually no re-development is required

Fast, Easy Development

Increased developer efficiency

- New method editor improves developer efficiency
- Integrated compiler keeps development processes hassle-free
- Shorter development times = cost savings
- Benefit from shorter development times with new developer features

New Printing Features

- Programmatically choose printer and printer trays
- New commands to determine "best object size" for even more control over the positioning of items on printed pages
- Side-by-side variable text printing
- Added flexibility to the Print form command
- Gain greater control of "orphans" while printing

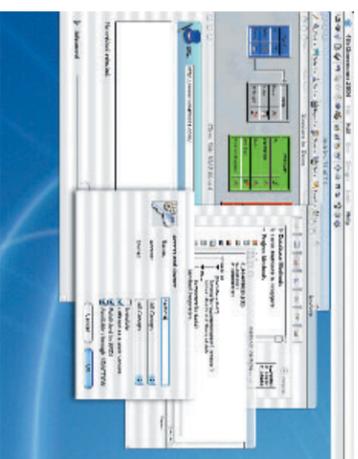
4th Dimension 2003 System Requirements

MacOS

- G3 or better processor
- Mac OS 9.2.1 (requires CarbonLib 1.4 or above)
- Mac OS v10.1.x
- 64 MB RAM minimum (128 MB recommended)
- 13" monitor with 256 colors

Windows

- Pentium II minimum
- Windows 98, Windows NT 4, Windows 2000, Windows ME, Windows XP.
- 64 MB RAM (128 MB recommended)
- Compatible with Citrix Meta Frame and Windows Terminal Server



New Report Engine

New report types available

Easily generate a wider variety of customized reports including:

- Cross-tab reports - horizontal and columnar summation (e.g. totaling revenue by sales period and products)
- List reports - columnar summation

New formatting features

- Powerful options for formatting
- Present data with more flexibility (e.g. set colors for rows)

Faster data access

- Get to the data you need more quickly and easily
- Automatically access data from related tables

Direct output to HTML format, XML format through an export dialog, and more

- 4th Dimension 2003 offers full support of technology standards including HTML and XML (eXtensible Markup Language)
- Receive and send reports via the Web, 4D View and Web services with greater flexibility

Save time & add flexibility with HTML report templates

- Easily modify the appearance of reports by using HTML report templates
- Create HTML templates using your preferred HTML editor (Macromedia Dreamweaver™, MS FrontPage™, etc.

For over eighteen years, 4D has been providing development and Web professionals with the highest quality, professional tools for creating powerful database and Web applications.

4th Dimension 2003

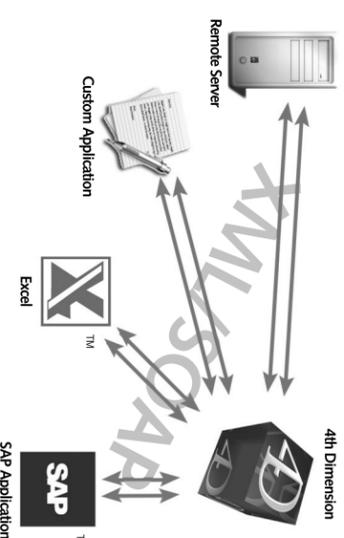
Web services

4th Dimension 2003 and its support for Web services give professionals the ability to generate reports from 4th Dimension to applications such as Microsoft Excel™, dynamically create customized Web pages, or create customized e-mail in HTML, all with 4th Dimension 2003.

A commitment to technology standards

4th Dimension offers built-in support for Internet server standards including:

- Integrated HTTP (Hypertext Transfer Protocol) server
- SSL (Secure Sockets Layer)
- Language support for SMTP (Simple Mail Transfer Protocol), POP3 (Post Office Protocol), and IMAP (Internet Message Access Protocol).



For Web services, 4th Dimension 2003 is compatible with .NET and any other Web service platform, and includes tightly integrated support for SOAP (Simple Object Access Protocol), XML (eXtensible Markup Language), and WSDL (Web Services Description Language).

Power to the end-user

An enhanced Quick Report Editor lets users create a variety of customized reports with ease, including cross-tab and list reports, without the need for external expertise. Direct output to HTML, including the ability to use templates to customize the appearance of HTML reports, enables 4th Dimension 2003 to receive and send reports via the Web. An export dialog also allows output to XML formats, giving users greater flexibility through Web services.

Faster, cost-effective development

In 4th Dimension 2003, a completely rewritten Method Editor



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offers enhanced capabilities that shorten development time, and an integrated compiler lets code be compiled from directly within 4th Dimension.

For more information on 4th Dimension 2003, visit <http://www.4d.com/2003>.

4D Business Kit (4DBK)

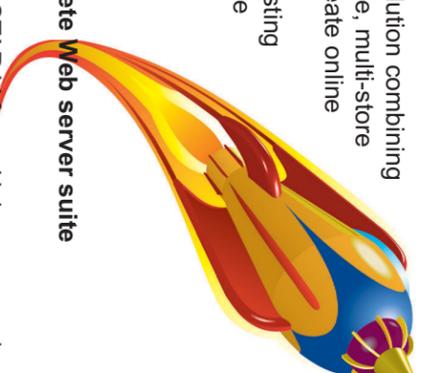
4DBK is an e-commerce solution combining a Web server, Web language, multi-store manager and database. Create online stores with ease, and add e-commerce features to existing HTML pages, including those designed with Macromedia Dreamweaver™.

4D WebSTAR V

The easy, fast, and complete Web server suite for Mac OS X

Built for Mac OS X, 4D WebSTAR V uses Unix power and stability with the ease of traditional Mac applications. Now with the feature-rich 4D Mail server, 4D WebSTAR V offers ultimate control over security, spam, virus protection, and more. Utilize multiple post offices with delegable authority, support for multiple protocols, and take advantage of enhanced security and spam filtering capabilities.

For more information on 4D WebSTAR V, visit <http://www.webstar.com>



Spotlight on...

4D Learning Resources

4D Learning Resources on the Web let you access all the tools you need to learn more about 4D products, all from one convenient online location. Whether you're looking for documentation, online tutorials, white papers, classroom training, or example databases, 4D Learning Resources give you what you need to achieve your goals with 4D.

Visit 4D Learning Resources at
http://www.4d.com/learning_resources.html.

The History of 4th Dimension

4D is dedicated to providing developers and end-users with an open, integrated architecture for the effective management of all types of data. 4th Dimension is a 32-bit, graphical, multithreaded, relational database designed to be flexible, powerful and completely scalable. Combining an intuitive interface with a powerful programming language, 4th Dimension products allow developers to create virtually any type of application, from simple contact management systems and product catalogs to sophisticated multimedia applications and full-scale accounting and business solutions. With Web services support, 4th Dimension 2003 takes its legendary capabilities even further, allowing both developers and users to take advantage of Web services technologies more quickly and easily than any other tool available.

The History of the 4D WebSTAR Server Suite

Since its introduction in 1995 by StarNine Technologies, the WebSTAR Server Suite has become the Web server software of choice for Mac OS webmasters, attracting a large and active installed base, as well as numerous industry awards. With 4D WebSTAR V, the newest and most powerful version of the 4D WebSTAR Server Suite yet, 4D continues to build upon the renowned speed, security, and ease-of-use of 4D WebSTAR. With Web, mail, FTP, and WebDAV servers right out of the box, 4D WebSTAR V continues to be the easy, fast, and complete Web server suite for Mac OS X.

4D, Inc. – A Company Profile

4D, Inc. is the first company to offer a single, integrated Web development tool capable of designing cross-platform, stand-alone, multi-user and Web server, and now Web service enabled applications with just a single development tool. As a result, developers and businesses of all types and sizes, from single-person operations to Fortune 500 companies, use 4D products to build superior Web and Web service-enabled applications quicker, more securely, and with greater ease and accuracy than with other products on the market.

From the award-winning 4th Dimension relational database management systems (RDBMS) to the legendary speed, security, and ease-of-use brought by the 4D WebSTAR Server Suite, the 4D Product Line offers a comprehensive collection of tools to solve any data management and Web challenge.

Development

4th Dimension development tools are professional tools for developing powerful database and Web applications.

4th Dimension Standard Edition – A truly standard-setting, professional suite of application and Web development tools.

4th Dimension Developer Edition – A comprehensive product bundle that includes 4D Standard Edition and various productivity and connectivity plug-ins, including a native language compiler.

4D Server Standard – A cross-platform, data application and development server, which easily scales any 4th Dimension single-user application to a workgroup client/server solution.

4D Server Developer – A complete product bundle that includes 4D Server Standard and various productivity and connectivity plug-ins for multi-user solutions.

Deployment

With 4th Dimension, you can take advantage of several different options for deploying and distributing your 4th Dimension application.

4D Runtime – 4D Runtime allows for the unlimited distribution of an interpreted 4th Dimension application, and is ideal for testing purposes and internal distribution.

4D Runtime Classic – 4D Runtime Classic is purchased separately and licensed on a per deployment basis. Designed to run only compiled applications, 4D Runtime Classic is faster than 4D Runtime for application distribution.

4D Engine – 4D Engine is a professional tool and is the fastest and most powerful

The 4D Product Line

way to distribute 4th Dimension applications. The compiled application reduces the 4D code to machine-level language to yield speed improvements 10 to 100 times over a non-compiled application.

4D Server Application – 4D Server allows your applications to be used in a client-server environment, without requiring a server version of the OS. 4D Server can run any compiled applications, and quickly scales a compiled single-user 4th Dimension application to a multi-user, client-server application automatically.

4D Web Extension – The 4D Web Extension license provides unlimited Web-serving capabilities. 4D Server Web Extension allows unlimited users to connect to 4D Server databases using 4D Server's built-in Web server software.

Plug-ins

The 4th Dimension plug-in collection ensures that your application's functionality and features are customized to meet your specific needs.

Connectivity

4D for OCI – The 4D for OCI plug-in allows 4th Dimension to communicate with ORACLE™ Servers using the comprehensive Oracle Call Interface or OCI.

4D ODBC – The 4D ODBC plug-in allows 4th Dimension to communicate with any data source accessible by an ODBC driver, providing connectivity to nearly all SQL and ODBC applications on the market.

4D Open – 4D Open is the Application Programming Interface (API) for connecting to 4D Server.

Productivity

4D Write – 4D Write is a cross-platform, word-processing plug-in integrated into the 4th Dimension database engine, which allows developers to include word processing capabilities directly in their applications.

4D Draw – 4D Draw is a cross-platform, object-oriented plug-in, which allows developers to include object-based drawing capabilities directly in their applications.

What people are saying about 4D

Businesses and organizations everywhere are using the 4D product line to create powerful database and Web solutions. For the complete collection of 4D Success Stories, please visit <http://www.4d.com/community/success.html>.

DavidLynch.com

Powering the Web World of a Legendary Filmmaker

"Our entire presence is delivered by 4D. We use 4D Server to host our database and custom Internet application. These applications then interface with 4D Business Kit to run the David Lynch online store, and our Web servers are all running 4D WebSTAR."

- Eric Bassett, Managing Consultant, DavidLynch.com

Husqvarna

4th Dimension for Server, Remote, and Web Solutions

"The multiprocessing ability of the 4th Dimension development environment is key for our solution, since it allows us to automate and schedule various tasks that need to be done regularly... We will continue to use 4th Dimension to develop more unique features that make our business processes more efficient."

- Darwin Caverly, Senior Analyst, Husqvarna Forest & Garden, Co.

Digital Scout

4th Dimension and Handheld Technologies

"The Digital Scout software systems help coaches, athletes, and athletic teams at all levels know more so that they can win more... We rely heavily on the underlying database functionality provided in 4th Dimension to manipulate the data in all of the different ways necessary to generate the many different kinds of reports that our users need and expect."

- James Hunt, CFO, Digital Scout

Companies, institutions and Web sites that use 4th Dimension technologies

Corporations

- Hewlett-Packard
- Apple Computer
- United Airlines
- KPMG Consulting
- General Motors
- Deloitte Touche Tohmatsu
- PricewaterhouseCoopers
- And many more

Government Agencies

- NASA
- U.S. Navy
- U.S. Department of Commerce
- U.S. Air Force
- And many more

Universities

- Dartmouth College
- New York University
- Johns Hopkins University
- University of California
- And many more

Web Sites

- Husqvarna Forest & Garden, Co.
- The Fine Arts Museums of San Francisco
- DavidLynch.com
- And many more