



WHEN THE SOLUTION MATTERS

4D Server 2003

Build powerful server and web applications

High performance architecture

4D Server fills the gap between low-end file-sharing systems and complex SQL RDBMS systems. 4D Server frees developers from the need to design separate front-end and back-end applications. A well specified and well developed 4D Server application can support up to 250 network users and thousands of Web users.

"Zero admin" server

4D Server handles most administrative tasks automatically, including the automatic control of client connections. One central program allows the administrator to manage back-ups, fine-tune performance settings and view connection information and statistics.

Distributed processing

4D Server allows you to partition code execution between the server and clients. Processes which would otherwise require intensive cross network traffic can be executed on the server and tasks requiring heavy processing can be executed on dedicated clients.

Multi-user development

4D Server is a complete multi-user development environment. It provides version control through automatic check-in and check-out of application objects. Modifications are reflected in real time for each developer on the team. No synchronisation is required and developers can program and test simultaneously.

Rapid deployment

Application updates are simple and centralised. Simply copy your amended application and 4D Server will automatically re-synchronise your data file and update everyone on the network the next time they log on.

Flexible connectivity

4D Server applications can smoothly interface with existing enterprise databases with the 4D Server connectivity plug-ins. 4D Server ships with an ODBC driver to allow controlled access to 4D Server from PC applications like Crystal Reports, MS Query and Excel.

Web services (SOAP)

4D Server gives you the full power of Web services, acting both as a SOAP server and a SOAP client. This allows you to interface with other Web services platforms including .NET™ and J2EE™. One click publishes your method and creates your WSDL file. You can export or import your records directly in XML and manipulate and parse XML data.

Windows or Mac?

4D Server and 4D Client are equally happy on Windows and Macintosh computers. The same application will happily serve to any combination of supported PCs or Macs.

4D Server is the cross-platform data, application and development server for 4th Dimension.

4D Server allows any single-user 4D application to scale easily to a workgroup client/server solution. 4D Server is easy to install and administer and allows you to create extremely cost-effective solutions.



INSTANTLY CALL AND PUBLISH WEB SERVICES



EASILY CREATE AND PUBLISH WEB SITES

The database

4D Server has a fully relational database with B-tree indexes. It performs lightning-fast searches and sorting and boasts impressive processing power:

- scales up to 250 users
- supports thousands of concurrent web users
- 16 million records per table and up to 255 tables in one file
- automatic record locking at object level
- integrated backup system

Entering data

4D Server keeps data in good shape, imposing formatting requirements and enforcing relational integrity.

- choose from alpha, numeric, text, date, time, Boolean, BLOB and picture fields
- specify mandatory and unique attributes, acceptable values, entry filters and choice lists

Building interfaces

A flexible form wizard gives you a wide range of interface templates. 4D Server offers huge flexibility in how interfaces are built and operate.

- store elements once for re-use on multiple forms
- set up your own style sheets
- produce your own the menu bars
- integrate context-sensitive help and "tips"
- control interface objects via the 4D Server language

Building reports

Powerful query editors make 4D Server a great reporting tool. 4D Server allows flexible data manipulation and gives you all the choices you need.

- write labels, format letters and other documents
- list reports, crosstab reports with horizontal and vertical totals
- spreadsheet generation with 4D View
- create charts such as 2D/3D, bar, pie, line and scatter

4GL programming language

If you're writing applications, your options are determined by the power of the language. The 4GL in 4D Server has over 800 commands. You can build high performing, multi-window and multi-process applications.

- method editor with syntax checking, macros and on-line documentation
- event driven GUI programming
- trigger support
- associate code with events and objects
- build you own plug-ins with C, C++, C# and others

Deploy where you need to

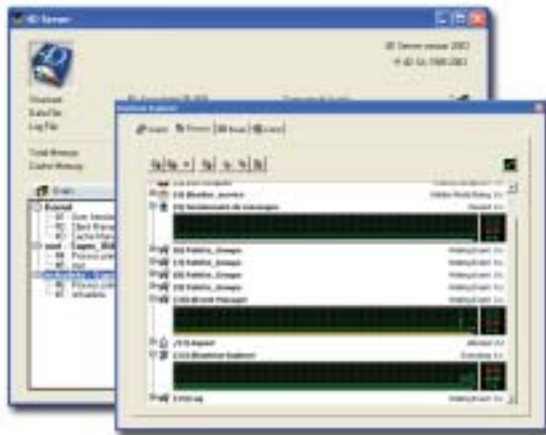
You can deploy compiled or uncompiled on Mac or Windows.

- Win 98, 2000, NT, ME, XP
- Mac OS X, 9.1+

Efficient web serving

Because 4D Server has a built-in web server, static and dynamic pages are served rapidly to thousands of simultaneous users. You can serve web pages directly from 4D Server or from any 4D Client for maximum scalability.

- HTTP basic authentication
- multi-homing
- send and receive emails (SMTP/POP3/IMAP4) or files (FTP)
- 128 bit SSL support



ENJOY THE POWER OF MULTIPROCESSING

Transparent application partitioning

With multi-process management at both server and client levels, stored procedures and interprocess communication, 4D Server allows sophisticated application partitioning and scaling.

- stored procedures
- remote procedure calls
- client/server bi-directional communication system
- n-tiered architecture

Security

Security is extensive. User and groups-based password systems give full structure access control and there's a comprehensive backup facility.

- options for mirroring and logging database activity
- data checking and repair tool

Connectivity

The 4D Server Product Line includes all the standards you need to communicate with other systems.

- Oracle (OCI 8) connectivity
- ODBC connectivity
- APIs for Java, C and C++
- SOAP support (client & server)
- access to platforms such as .NET™ and J2EE™
- OLE Link
- XML import/export and parsing

Educational materials

4D Server users can become fully operational quickly, thanks to a wide range of books, training courses, mailing lists and online resources.

Technical Support

You don't need to develop on your own. A range of comprehensive technical support programs is available to suit every level of 4D Server user, from in-house developers to professional database developers.

SYSTEM REQUIREMENTS

Pentium II minimum

Windows 98, Windows NT 4, Windows 2000, Windows ME, Windows XP.

64 Mb RAM

Compatible with Citrix Meta Frame and Windows Terminal Server.

MacOS

iMac minimum
Mac OS 9.1 with CarbonLib 1.4,
Mac OS X native

64 Mb RAM minimum