COREL

Solution Guide

WordPerfect® Office 2002

Building Solutions with Paradox®

May 2001

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Corel Corporate Profile

Corel Corporation provides its customers with the creative tools they need to unleash their imaginations. With its heritage of software innovation and a solid franchise of loyal customers worldwide, Corel has earned its reputation as an internationally recognized developer of award-winning graphics and business productivity applications on the Windows®, Macintosh®, Linux®, and UNIX® platforms. In 2001, Corel will continue to broaden its support of the Web, while delivering the Internet's versatility to customers through exciting Web-based applications, content, and services. Corel will also be developing applications for Microsoft's .NET platform as part of its commitment to provide customers with a full range of applications and services over the Internet.

Launched in January 2001, Corel's new corporate strategy builds on the company's core strengths and repositions it for long-term growth and profitability. Three cornerstones form the basis of Corel's business philosophy—*Dynamic Technology, Dedication to the Customer, and Disciplined Financial Management*. With a blueprint for the future that includes a solid foundation, a clear plan, and growth through strategic investments and acquisitions, Corel aims to achieve a compounded annual growth rate of at least 20 percent over the next three years. By capitalizing on its standing as a global technology leader, Corel will enhance customer relationships and target new customers in emerging markets, especially those related to the Web. Corel will also continue to support and develop its renowned products and services—most notably its award-winning brands CorelDRAW® and WordPerfect®—as it pursues opportunities in new, high-growth and high-yield markets.

Over the short term, Corel is focused on upgrading customers to new versions of its flagship applications—CorelDRAW 10 and WordPerfect Office 2002— and releasing new versions of Corel® KnockOut (masking software), Corel® Painter™, Bryce®, KPT®, and CorelDRAW 10 Graphics Suite for the Macintosh platform. Over the long term, Corel's advanced technologies incubator, the New Ventures division, will aggressively drive research and development opportunities in the Creative Products arena to generate new revenue streams for the company. Corel will use its expertise in the graphics arena to capitalize on these new opportunities.

Corel's Business Applications group and WordPerfect Office Suite are integral components of the company's blueprint for success. With a devoted following of WordPerfect customers, Corel will continue to develop and support English versions of this award-winning suite for North American and international markets. Corel's commitment to its WordPerfect customers will also be reflected in targeted sales and marketing programs aimed at rewarding customer loyalty through preferred pricing and licensing options. The company will also take advantage of premium sales channels to serve professional customers in small- to medium-sized businesses.

In 2000, Corel followed up the success of its user-friendly desktop operating system, Corel® LINUX® OS with Linux editions of CorelDRAW and WordPerfect, as well as an enhanced version of the OS itself. The company's expanding vision for Linux includes providing customers with a bundled solution that minimizes the total cost of ownership and eliminates integration issues. To realize this vision and increase the value of its Linux equity for customers and shareholders, Corel is continuing to develop applications for Linux while pursuing opportunities to spin off the distribution element of its Linux division.

With its headquarters in Ottawa, Canada, Corel remains one of Silicon Valley North's most exciting and influential software companies. Corel's common stock trades on the NASDAQ under the symbol CORL and on the Toronto Stock Exchange under the symbol COR.

For more information on Corel Corporation, please visit Corel's Web site at **http://www.corel.com/**

The Paradox® Solution

"I can count the things I can NOT do in Paradox on the fingers of one foot."

Al Breveleri, Database Consultant

A machine that sorts bulk mail parcels has 32 sortation lanes, several barcode scanners, an in-motion scale, and an induction conveyor. It automatically weighs and scans the parcels and then sends the weight and bar code to the control application. Using the barcode data, it checks the package's status, makes sure it has been weighed properly, verifies the package's sorting and mailing destination, and sends the information back to the machine. The machine uses this information to track the package and divert it to the appropriate sorting lane, sending a message to the control application when it receives confirmation of whether the sorting attempt was successful. The application then updates the parcel's status, calculates the postage, and generates the mailing statement and manifest for the post office. The whole system is fully automated and processes 100 parcels each minute.

Does this sound like business in the year 2175? It's not. It's a real solution invented by a Paradox® user.

Still not impressed? Read on.

A leading hard disk manufacturer uses a program written in Paradox to label cartons containing hard disks with the appropriate serial numbers. Each assembly line has three computers — two at the beginning, and one at the end. The first two computers scan the serial number of the hard disk and produce a sticker specific to that disk. The operator applies the sticker to the box and sends it down the line. The system then records the work number, assembly line number, model number, and time stamp in the database; it also records the number of cartons filled and labeled. At the end of the line, operators query the database for the number of serial numbers that were scanned, but not yet boxed. The system catches errors before the shipment leaves the building, reducing the error rate to virtually nothing.

What Is Paradox®?

Included in the Professional Edition of WordPerfect® Office 2002, Paradox is a relational, file-based database application that helps you track, organize, and compile data. Designed to serve as a complete desktop database solution, Paradox stores information in powerful, searchable tables. Each table can hold more than 2 GB of information. Paradox also features Web functionality, an easy-to-use interface, and a number of interactive tools that help you organize and track information.

Paradox uses the ObjectPAL® programming language. ObjectPAL is particularly suited to database applications for the following reasons:

- **fast** — ObjectPAL is a powerful language that tracks data quickly.
- **geared towards data** — ObjectPAL is a language designed specifically to track data.

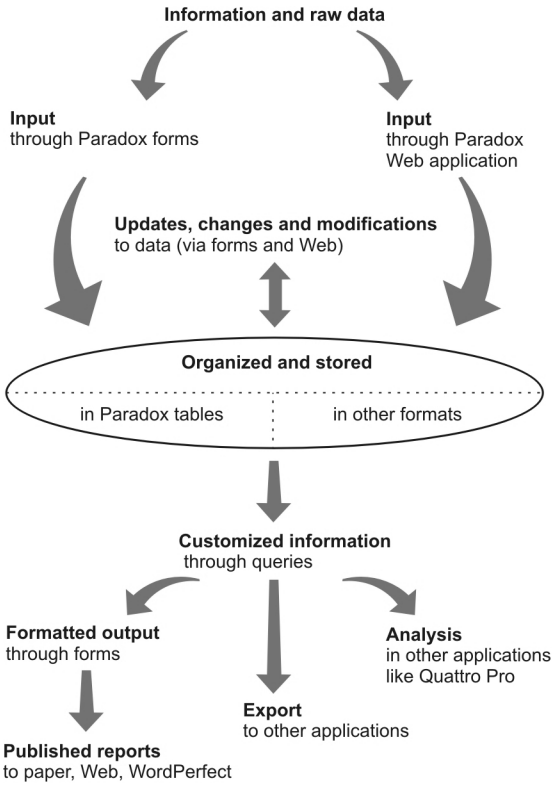
- **consistent** — ObjectPAL is easy to learn. This allows you to automate many programming processes and save time and effort when modifying records or applications.
- **extensible** — ObjectPAL allows you to write your own applications and tailor a database solution to fit your specific needs.

ObjectPAL also allows you to write interfaces to third-party applications and use Paradox as a front-end user interface. This makes Paradox highly compatible with a variety of database applications, including InterBase, Oracle®, Microsoft® Access, Microsoft® Visual FoxPro®, Sybase™, Microsoft® SQL Server, dBASE®, IBM DB2, and Informix®.

In addition, ObjectPAL allows Paradox to store the different components of a database table separately. This means that if one file or database component is damaged or corrupted, the entire table will not be corrupted. Paradox protects your data by minimizing the difficulties associated with recovering lost data and reorganizing damaged data.

The Paradox Chain

The following diagram illustrates a typical Paradox workflow.



While the workflow may seem complex, Paradox streamlines it, making the transition between stages of the workflow almost simultaneous. Paradox simplifies a workflow, letting you increase productivity and efficiency.

Getting Started

Paradox includes a number of features to help new users get started. You can use a wide range of database templates or a number of **Experts** to help you accomplish simple tasks, such as adding a button to a form, and more complex ones, such as performing a mail merge with WordPerfect®. In addition, tutorials on basic database functionality and ObjectPAL teach users how to use the powerful features of Paradox. Comprehensive online Help is also available.

Newsgroup Support

"Paradox has some of the best newsgroup support available. The help is fast, friendly, and accurate. The Paradox community can get you up and running faster than just about any other resource for any database product out there. Whether you build it yourself or find someone to do it for you, the Paradox community will help get you there."

Dennis Santoro, President, Resource Development Associates

Some of the best advice and information you can receive about Paradox comes from other Paradox users. A close, friendly, and knowledgeable community of Paradox users helps you get the most out of the application. In addition to Corel's extensive telephone, fax, and Internet support options, you can take advantage of the Paradox newsgroup to find pertinent, easy-to-understand information quickly and easily.

The Paradox newsgroup provides you with an informal, effective way of designing Paradox solutions. Users access the newsgroup to post comments and suggestions and describe the new and exciting things they've done with Paradox. As part of the newsgroup you can gather ideas, solve problems, and interact with other Paradox users to discover how to create an impressive variety of database solutions.

And don't worry: Paradox users are a helpful bunch. If you can't figure out how to do something using Paradox, chances are someone has already figured it out for you. The Paradox community makes sure that you have all the information you need instantly accessible.

Real Paradox® Solutions

Paradox is a program for everyone. It can be used for simple solutions as easily as it can be used for complex ones. Paradox excels at database creation and it can be tailored to fit a wide variety of user requirements. There is no one right way to use Paradox; its versatility is limited only by your imagination.

Government Solutions

Paradox is the ideal database application for governments and departments for whom organizing and tracking large quantities of data is essential. Taking full advantage of its powerful functionality and versatility, a number of Paradox users have created a wide variety of database solutions.

One American state uses Paradox to manage its entire probation program. Paradox summarizes each officer's monthly caseload, calculates the time each officer spent in various activities, and then prepares a report for analysis. This lets government officials organize their budget and make sure that staffing levels reflect the current workload.

A large county in the same state uses Paradox to manage voter registration records, eliminating inefficient ballot counting. The same program

- produces pollbooks
- incorporates bar codes to record voter participation
- scans and stores signatures used for petition verification
- produces reports and data files for candidates

A number of governments use Paradox to collect data and generate summary reports. One division of the American federal government reduced the processing time of files received from state governments from two weeks to less than four hours.

Business Solutions

"Only two things regarding Paradox are worth believing:

1) It is better to have more of it than less.

2) It is better to have it now rather than later."

Rick Kelly, Owner/President, Crooit Software

The business world demands quick and powerful solutions. A well-organized business is, more often than not, a profitable business. Paradox helps businesses track, manage, and organize data to streamline operations and increase overall efficiency.

One Paradox user created a database that allowed a large retailer to consolidate its divisions into one centralized system. Previously, each division had different item and vendor codes. The user provided the retailer with forms that allowed it to group and search its data, saving the retailer countless hours that would otherwise have been spent poring over messy, jumbled reports.

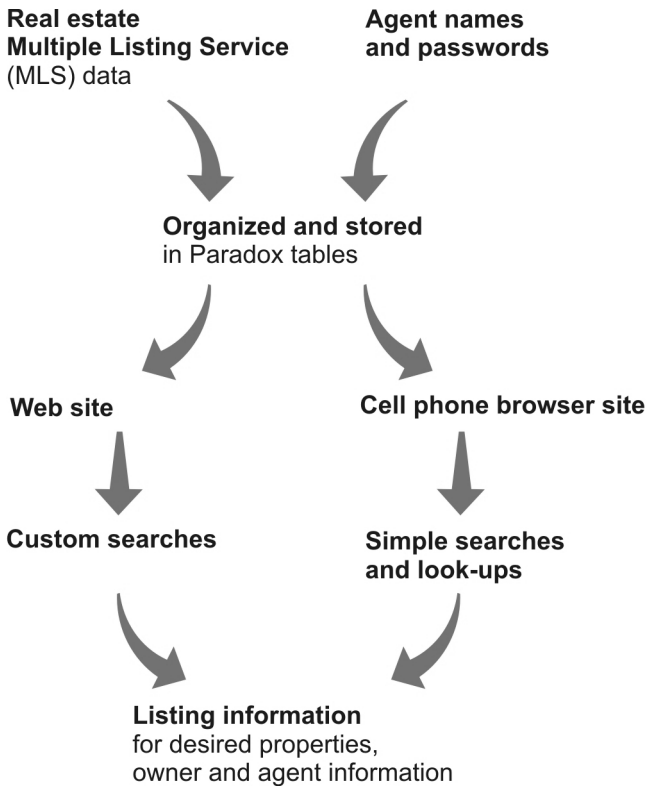
Another user designed an application for a large pharmaceutical company's construction project, allowing its construction manager to track subcontractor jobs and monitor the percent-complete status of each job. The application allows the construction manager to track electrical, mechanical, instrumentation, fire, and safety and security systems. Now the construction manager can monitor the status of construction activity and manage the total installation of all on-site equipment.

One user has used Paradox to help companies organize their products and procedures. Paradox

- tracks telephone orders
- lists orders and tracks them until they are shipped
- prints dispatch labels with bar codes and invoices
- monitors stock control
- keeps track of importing, including shipping from port, arrival, clearance through customs, unpacking, warehousing, currency conversion, pricing, and budgeting

The Paradox solution that this user created is so successful that he has sold different versions of it to a number of large companies.

One user has created an especially interesting application using Paradox. His company uses Paradox to provide data-driven Web sites that display text on cell phones. The client specifies a number of search parameters and Paradox transfers the information directly to the screen of the client's cell phone. Paradox communicates with the cell phones without any intermediate proxy; the user has won a number of contracts based on this functionality alone. The following diagram illustrates the application's workflow.



Paradox can even communicate with other electronic equipment. Think of Paradox as the database with style. All it takes is an idea, and Paradox takes care of the rest.

Medical and Scientific Solutions

Paradox recognizes that keeping accurate, detailed records is essential for the medical and scientific communities. Accurate records allow medical and scientific professionals to track, organize, and analyze data quickly and easily. A well-organized database is the foundation on which powerful medical and scientific solutions are built.

One user in a pediatric primary care office in a university setting uses Paradox to automate all administrative procedures. In addition to monitoring patient summaries and referrals, Paradox organizes and tracks

- telephone notes
- patient flow

- online billing
- lab and x-ray orders
- prescriptions
- immunization orders
- growth analysis
- pager notification of patient arrival
- email and phone contacts

The user has also taken advantage of the powerful Web functionality of Paradox to create a Web site for residents to publish goals and objectives, track procedures, and keep up-to-date with faculty, resident, and program evaluations.

Another Paradox user has developed a program that tracks Continuing Medical Education (CME) credits for physicians at a community hospital and automatically reports the credits to the Accreditation Council for Continuing Medical Education (ACCME). The same program also tracks lectures attended by medical students and lectures given by physicians, printing individual physician reports to determine how many more CME credits physicians need to fulfill their CME requirements.

In addition to the CME tracking program, the user has created a program that tracks calls for a local ambulance squad. The program submits calls to the statewide ambulance federation, allowing it and the ambulance squad to track and organize calls according to various criteria. The user's program is only the eighth to be tested and approved by the state.

Paradox is a versatile, powerful application that lets professionals in the medical and scientific communities create an impressive variety of solutions. However, Paradox also excels at simpler solutions. For the medical or scientific professional who wants to maintain a basic database, Paradox lets users compile comprehensive, easily searchable databases for

- project management
- artifacts, specimens, samples, and more
- scientific literature
- case histories

Professionals in the medical and scientific communities value Paradox for the ease with which it helps them organize their data into simple, searchable databases. Paradox helps them streamline their workflow and increase productivity.

Project Management Solutions

The ability of Paradox to track and organize large amounts of data simplifies project management. This is an invaluable tool for managing ongoing projects and plans.

A municipal government uses Paradox as a project management system that tracks project schedules, budgets, current cost estimates, jurisdictional and statistical information, contracts and contract payments, as well as staff time-tracking and billing. The program began as an application for a single work group and is now being used by the entire city. In addition, after a few minor alterations to the main application, the city extended its functionality to track unfunded building projects and private development that affect the city. The application tracks pertinent information, such as street and drainage systems, phone books, help desks, and it also provides document management tools.

A number of Paradox users in academic and scientific settings use the application to track and organize their various projects. Because it is designed to track data, Paradox is ideal for professionals who value accuracy and integrity.

Auditing And Accounting Solutions

"No matter to which level of user I have grown, Paradox has always included the tools I have needed to help me accomplish my next task."

Tony McGuire, Senior Vice-President - Product Development, Jedstar Technologies, Inc.

Paradox can be used to perform auditing and accounting functions, including

- data analysis
- payroll
- accounts receivable and payable

Some government departments use Paradox instead of expensive auditing software. After entering and organizing the data in Paradox, administrators export the data to easy-to-read spreadsheets for further analysis. This saves time and money and helps database administrators generate accurate reports that can easily be read and understood. One government department used Paradox to quickly and efficiently analyze three months of transactional data (over 2.7 million records) and return a series of reports based on the retrieved information.

A number of companies use Paradox to provide a complete business solution. Since Paradox excels at tracking, organizing, and presenting data in an easy to understand format, it can be used for auditing and accounting as easily as it can be used for administrative purposes.

Personal Solutions

Paradox is not just for governments, businesses, or the medical and scientific communities. A number of Paradox users value the application for its ability to organize and track simple databases.

Everyday life is deceptively complex. Why let it confuse you? Use Paradox to cut through the clutter and help you organize all your projects. There's no one way to use Paradox; it can organize shopping lists one day and then automate enormous mailing lists the next. Use Paradox how you want to use it. Paradox accommodates virtually any task.

Many Paradox users have set up databases to do the following:

- **Track and manage family finances** — Keeping track of bills, checks, credit card debts, and other expenses can be a difficult, time-consuming chore. Paradox simplifies this process by letting you set up and maintain an easily accessible, comprehensive database that tracks and organizes family finances. This lets you gain greater control of your finances to better plan for the future, as well as the present.
- **Organize movies, CDs, books, and more** — You can add your collections to a Paradox database and then group them by categories. For example, you can organize a record collection by artist, title, date, style of music, and record label. This allows you to create an easily searchable database that best suits your needs.
- **Create and maintain address books and mailing lists** — Staying in touch with friends and family can be difficult; it is easy to lose contact information if it is not stored properly. Paradox solves this problem by allowing you to create and maintain up-to-date address books and mailing lists. You need not worry about missing birthdays, holidays, or special events again.
- **Track and compile genealogical information** — You can create a genealogical database, including current contact information, to track and list family members. One Paradox user exported a database of his family's genealogical history to a Web site, and another user scanned more than 1000 family photographs to create a comprehensive, photographic catalog.

These are just a few of the solutions Paradox users created. In reality, the possibilities are nearly limitless.

Is Paradox For You?

Yes!

Paradox is a comprehensive, versatile desktop database solution. Featuring an easy-to-use interface and the powerful ObjectPAL programming language, Paradox excels at organizing, tracking, presenting, and storing data. It is powerful enough to accommodate any solution you want to create, yet using the application is not a chore.

Because compatibility is one of the key strengths of Paradox, it is simple to write interfaces to third-party applications, while still maintaining Paradox as the front-end interface. This compatibility lets you create a virtually limitless array of solutions using Paradox.

Paradox is limited only by your imagination. Discover Paradox and you'll discover a world of solutions.

Where Do I Get More Information?

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To access the Paradox newsgroup, visit Corel's Web site at **http://www.corel.com/support**