

# Paradox<sup>®</sup> 9



## Feature Guide

April 1999

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## Table of Contents

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Corel Corporate Profile . . . . .	4
Executive Summary . . . . .	5
What is Paradox® 9? . . . . .	7
Introducing Paradox® 9 . . . . .	8
What's New and Enhanced in Paradox® 9? . . . . .	12
Overview of the New and Enhanced Features in Paradox® 9. . . . .	14
Where Do I Get More Information? . . . . .	17

## Corel Corporate Profile

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Corel Corporation is an internationally recognized developer of award-winning graphics and business productivity applications. Since its foundation in 1985, Corel has developed products known for excellence and value that follow emerging trends in the software industry. Committed to performance, compatibility, and value, Corel develops products for Windows®, Macintosh®, UNIX®, and Linux® platforms and Java™. Corel is renowned for comprehensive, competitively priced products that have powerful core applications and value-added utilities. Corel develops market-leading products, such as the CorelDRAW® suite of graphics applications and the WordPerfect® Office suite of business tools, while continuing to meet the demands of the corporate, retail, and academic markets.

In 1992, Corel introduced its first graphics suite to coincide with the launch of Microsoft® Windows 3.0. CorelDRAW 3, a competitively priced, all-in-one graphics solution, established the company as a world leader in graphics software. In 1995, CorelDRAW 6 was released as the first major 32-bit application available for Windows 95. Keeping its commitment to cross-platform solutions, Corel released CorelDRAW 8 for Power Macintosh® in 1998. The expanding CorelDRAW product line continues to attract industry recognition, winning more than 300 first-place international awards.

In 1996, Corel broadened its focus when it acquired the renowned WordPerfect family of business applications. Corel carefully re-engineered this world-class software into a market-leading line of powerful productivity applications. In 1997, Corel partnered with Dragon Systems, Inc. to deliver Corel® WordPerfect Suite 8 with Dragon NaturallySpeaking™, a large vocabulary, general purpose, continuous speech recognition system. Continuing its commitment to performance, compatibility, and value, Corel is focused on developing office applications that are compatible with other off-the-shelf office suites. In addition, Corel is continually expanding to increase the presence of WordPerfect worldwide.

Corel is headquartered in Ottawa, Canada. Corel's products ship in over 17 languages through a network of more than 160 distributors in 70 countries. Corel maintains several offices throughout Canada and the United States. In addition, Corel has offices in over 18 countries worldwide. Corel's common stock trades on the NASDAQ Stock Market<sup>SM</sup> under the symbol CORL and on the Toronto Stock Exchange under the symbol COR.

For more information, visit Corel's Web site at [www.corel.com](http://www.corel.com).

## Executive Summary

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Growth in office suite sales has introduced desktop databases to a variety of users. Desktop databases must now meet the needs of new and experienced database users, and database developers.

For new users, desktop databases must be easy to use. As the needs of users expand, the application must also evolve. Desktop databases must include powerful development tools to let developers create databases that can manage expanding volumes of data.

Paradox® 9 is a relational database management system that lets new and experienced users effectively manage data. This makes it a desktop database solution for small offices and interdepartmental divisions in small to medium-sized corporations. Paradox 9 is designed to let users create databases, retrieve data, and generate reports quickly using custom methods or one of the many experts available. Powerful tools let developers create database applications, define menus, organize and structure tables, and define functions.

Corel extensively researched the areas of Paradox that needed new and enhanced features. This research indicated that most users, especially those in corporate environments, require ease-of-use, compatibility with other business applications, and an Internet/intranet solution to increase productivity in a cost-effective manner. Developers need tools to create database applications. The Paradox development team enhanced Paradox in four main areas: performance and productivity, compatibility, integration capabilities, and Internet features.

The performance and productivity features added to Paradox 9 let new users perform common database tasks easily, and assist developers in creating Paradox applications quickly and efficiently. Vertical Database Templates help new users quickly create business, corporate, and personal databases. Paradox 9 now incorporates the Visual Database Designer to help all levels of users create and modify tables and table links.

Compatibility features have made it easier for users to transfer data between business applications, such as Microsoft® Word and Microsoft® Excel. Paradox 9 now includes the Rich Text Format (RTF) file format and the Microsoft Word (.DOC) file format, through which users can publish Paradox data in reports. Users can also store JPEG files in tables and connect to other databases, such as Microsoft® Access 97. Also, Paradox 9 is fully backward compatible. Files created in an earlier Windows version of Paradox can be used in Paradox 9 without losing data, and without writing code or following special procedures.

Users often need to transfer data between applications in an office suite. WordPerfect Office 2000 integration now makes it easier for users to share Paradox 9 data with popular office file formats, such as WordPerfect. In addition, all applications in the WordPerfect Office 2000 suite have a common user interface, including a common toolbar. Users can quickly copy and paste data from Paradox tables to Quattro® Pro spreadsheets or publish reports from Paradox to WordPerfect.

The Java Internet features let users design and publish Internet and intranet Web forms easily. The new Paradox Web Form Designer lets users build dynamic Web forms in a pure Java environment. Java™ Applets are embedded in the HTML files, which means that Web forms can run on any operating system or platform. The Web Form Designer is WYSIWYG, so users do not need to preview work in a Web browser. The Java Internet features also let users publish dynamic HTML documents to a Web page from a Paradox 9 table or

report. The information on the Web page is updated each time the page is accessed, so the user always receives the most up-to-date information from the Paradox 9 database.

## What is Paradox® 9?

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Paradox 9 is an easy-to-use relational database application that helps users manage data. The application lets users store and retrieve data in a variety of ways, and create professional forms, charts, and reports in which to display data. Paradox 9 can run as a standalone system on one computer, or as a multiuser system on a network.

Paradox 9 lets novice users create a database with ready-to-use templates. Experts guide users through the creation of tables, forms, reports, charts, and mailing labels. Users can publish data in various file formats that are compatible with other business applications and with applications in a suite of Corel products. New Web form design and enhanced table and report publishing capabilities let users share data over the Internet. Paradox 9 is able to expand its functionality to meet the increasing demands and needs of users as they become familiar with the application.

For more experienced users, Paradox 9 includes ObjectPAL®, an object-based, event-driven development language that is used to create customized database applications.

### Paradox® Product History

Paradox is an award-winning Windows-based database originally developed by Ansa Software in 1985. It was purchased by Borland International, Inc. in 1987. Through a previous alliance between Borland and Corel, Paradox was included in Corel® Office Professional 7.

In 1996, Corel licensed Paradox from Borland. This perpetual license gives Corel exclusive distribution rights for Paradox. Corel has assumed responsibility for the development, sales, marketing, and support of Paradox worldwide. In July 1997, Corel updated Paradox and released Corel Paradox 8. Paradox 9 continues to offer users choice, compatibility, and value.

### Minimum System Requirements

- Windows® 95, Windows 98, or Windows NT® 4.0
- 486/66 DX
- 16 MB RAM (32 MB RAM recommended)
- 65 MB hard disk space
- CD-ROM drive
- VGA monitor or better

## Introducing Paradox® 9

Paradox 9 is available as a standalone version, or as part of the WordPerfect Office 2000 Professional Edition and the WordPerfect Office 2000 Legal Edition. Paradox 9 will also be released in a Developer's Edition that includes Paradox Runtime 9.

The Paradox 9 Standalone Edition and Paradox 9 Developer's Edition include the following applications and utilities:

Components	Paradox 9 Standalone Edition	Paradox 9 Developer's Edition
Paradox 9	✓	✓
Borland® Database Engine (BDE) 5.01	✓	✓
jPdox Web Utilities Setup	✓	✓
Paradox Web Form Designer	✓	✓
Paradox JDBC Driver	✓	✓
JDBC Proxy Server	✓	✓
Paradox Report Server	✓	✓
Corel® Web Server	✓	✓
INTERSOLV DataDirect ODBC Paradox Driver	✓	✓
Adobe® Acrobat® Reader	✓	✓
Paradox 9 User Guide	✓	✓
jPdox Web Utilities Use Guide	✓	✓
CD Reference Center	✓	✓
JRun™		✓
Paradox 9 Runtime		✓
Paradox Distribution Expert (PDE) 9		✓
Borland SQL Links 5.01		✓
PeerDirect CD-ROM		✓

Paradox 9 ObjectPAL Reference Guide, vol. 1 &2		✓
Paradox 9 Power Programming: The Official Guide		✓

## Main Applications

**Paradox 9:** Paradox 9 lets users create databases, retrieve data, and generate reports quickly using one of the many Experts available, or through custom methods determined by the user.

**Borland Database Engine (BDE) 5.01:** Paradox uses the Borland Database Engine (BDE) as its data access engine. The BDE provides users with a full set of high-performance database tools, which can be used to create simple and complex applications, order and inventory systems, event tracking, and human resource management.

### jPdox™ Web Utilities

As the popularity of the World Wide Web increases, and users become accustomed to retrieving information using Web browsers, many organizations are changing from document-based Web sites to database-based Web sites. The jPdox Web utilities are advanced features of Paradox 9, designed to provide users with an Internet or intranet solution. These utilities help users design and publish forms, tables, and reports to intranets or the Internet.

**jPdox Web Utilities Setup:** The Setup Expert, created using InstallAnywhere™, is a Java application which installs jPdox utilities.

**Paradox Web Form Designer:** The Paradox Web Form Designer lets users design and create forms using embedded JavaBeans™, eliminating the need to write code. Java Applets embedded in HTML files help users create platform-independent Web forms. Users can share current data from a Web site that is associated with any Paradox-compliant database, or any database which has a JDBC Driver. This application is WYSIWYG.

**Paradox JDBC Driver:** The Paradox JDBC Driver is a developer tool used to connect databases. It gives users standard Structured Query Language (SQL) access to databases from Java programs, including the Paradox Web Form Designer. The Paradox JDBC Driver provides users with a direct connection to the Borland Database Engine (BDE), which provides access to most desktop and server-based databases from Java programs.

The JDBC Driver consists of two parts that function together: the JDBC Client and the JDBC Server. The JDBC Client consists of the Java files that need to be included in a Java application. It communicates transparently with the JDBC Server to transfer data between the BDE and the Java application. This action takes place with no noticeable change in operation. The JDBC Server provides the direct link to the BDE.

**JDBC Proxy Server:** The JDBC Proxy Server is a Java application that redirects all incoming and outgoing information between the JDBC Client and the JDBC Server. The JDBC Proxy Server can serve as a security barrier, since it acts as a monitor between the network server and the JDBC Server.

**Paradox Report Server:** The Paradox Report Server lets users create dynamic HTML documents using HTML Table Expert or HTML Report Expert. When the data in a Paradox database changes, the Web page is updated to reflect the changes. Users can also publish static HTML documents. This feature is compliant with standard Web servers that support Java servlets.

**Corel Web Server:** The Corel Web Server is a fully functional Web server. It acts as an intermediary between Web browsers and compatible applications, such as IntraBuilder and Paradox, to transfer requests and responses between them.

**JRun:** JRun is included only in the Paradox 9 Developer's Edition. JRun is a Java-based program that provides a report servlet to Paradox 9. This servlet responds to user requests for Web documents containing tables and reports dynamically created using Paradox 9. JRun allows a Web server to be a servlet API-compatible, includes server-side Java functionality, and gives the user the option to choose to run the JRun built-in Web server over another.

## Supporting Products and Tools

**Paradox 9 Runtime:** Paradox 9 Runtime is a shell for running applications developed using the full version of Paradox 9 and ObjectPAL. Paradox 9 Runtime lets developers create and deploy customized database applications that include toolbars, pop-up menus, and multiuser capabilities. It also lets users display and print reports.

Paradox 9 Runtime lets developers distribute applications in a cost-effective way. Under the terms of the Paradox 9 license, developers cannot make copies of Paradox 9. However, developers can distribute unlimited copies of Paradox 9 Runtime with no licensing fees, provided they follow the terms of the Paradox 9 Runtime license agreement.

It should be noted that the version of Paradox Runtime should match the version of Paradox used by the developer.

**Paradox Distribution Expert (PDE) 9:** Paradox Distribution Expert (PDE) 9 is a tool designed for an intermediate to advanced Paradox user, including beginner developers. The tool packages a developer's Paradox application files, Paradox 9 Runtime, and the Borland Database Engine into a single setup that end users can install. The PDE takes the user through a series of steps, helping with tasks such as setup options, choosing files for distribution, saving projects, and creating distribution. The following components are required to properly run the PDE and are shipped with Paradox 9: Paradox 9 Runtime, Borland Database Engine 5.01, and the WordPerfect Office 2000 writing tools.

**Borland SQL Links 5.01:** SQL is used by developers and advanced database users to perform network queries across different hardware and software platforms. Borland SQL Links 5.01 lets users query native Paradox and dBase tables and remote SQL-based server databases. Borland SQL Links 5.01 lets users access data on a SQL server as if it were resident on the local computer. This connection lets Paradox access a large database and provides full access to all the features and functions of database servers, including stored procedures and data dictionaries.

**INTERSOLV DataDirect™ ODBC Paradox Driver:** The INTERSOLV DataDirect ODBC Paradox Driver makes Paradox 9 compatible with other ODBC-compliant databases, such as Microsoft Access, Microsoft FoxPro®, dBase, and Oracle. ODBC is a Microsoft Windows service that lets Microsoft Windows applications access data through a common interface.

**Adobe Acrobat Reader 3.02:** Adobe Acrobat Reader lets users view, navigate, and print Portable Document Format documents (PDFs) across multiple platforms. The Paradox 9 CD Reference Center (see Documentation, below) contains four files that are supplied in PDF format. Adobe Acrobat Reader must be installed in order to view these files.

**PeerDirect:** PeerDirect is a database replication system that gives users fast, reliable access to database information at any time from any location. Paradox 9 users can easily replicate Paradox databases using PeerDirect is offered as an additional tool in the Paradox 9 Developer's Edition.

## Documentation

**Paradox 9 User Guide:** Paradox 9 includes comprehensive documentation that provides conceptual and procedural information. A detailed online Help system is also available. Two separate online tutorials guide users through the steps necessary to create databases and use ObjectPAL code, respectively.

**Paradox 9 Power Programming: The Official Guide:** This book, written by Mike Prestwood, helps users understand the fundamentals of programming with Paradox 9.

**jPdox Web Utilities User Guide:** The jPdox Web Utilities User Guide provides users with information regarding the installation, configuration, and application of each of the jPdox Web utilities included with Paradox 9.

**Paradox 9 ObjectPAL Reference Guide:** The ObjectPAL Reference Guide provides users with a reference to the ObjectPAL programming language. It describes the methods and procedures used for each ObjectPAL type and provides a list of all ObjectPAL constants and properties.

**CD Reference Center:** The CD Reference Center includes the following four resources for Paradox 9 users: the Paradox 9 User Guide, the Paradox 9 ObjectPAL Reference Guide, Release Notes, and jPdox Web Utilities User Guide.

## What's New and Enhanced in Paradox® 9?

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The features and tools available in Paradox 9 streamline repetitive tasks, eliminate redundancy, and increase overall user productivity. The application expands to meet users' growing demands, needs, and skills as they become more comfortable and proficient with database functions.

### Product Highlights

Compatibility, new user features, and advanced user and developer features in Paradox 9 let both new and experienced users create powerful and functional databases to suit individual needs.

### Compatibility Highlights

Compatibility with other business applications and with WordPerfect Office 2000 lets users share data across applications. Paradox 9 lets users:

- import and export Microsoft® Excel 95 files, and import Microsoft® Excel 97 files
- publish reports in the Microsoft® .RTF and .DOC file formats
- store JPEG files in a table
- use Microsoft® IntelliMouse™ to scroll and zoom in a table, form, or report
- enhanced integration of Paradox 9 with the other WordPerfect Office 2000 core applications

### New User Highlights

Paradox 9 provides tools and features designed for users who are new to desktop database applications. Users are introduced to the basics of this desktop database application. New user highlights include:

- online tutorial
- Vertical Database Templates
- easy-to-use table structure and restructure dialog box
- Spell Checker
- SQL Query Expert
- Find Duplicate Expert
- support for High-Contrast mode, which uses standard user interface controls to make third-party accessibility tools compatible with Corel applications

## Advanced User and Developer Highlights

Users who have experience in desktop database applications will find that Paradox 9 can also meet their demands. Advanced user and developer highlights include the following:

- Paradox Web Form Designer — lets users create platform-independent Web forms
- Visual Database Designer — lets users create and modify tables and table links
- continued support of the Borland® Cross-Windows solution strategy — ensures backward compatibility and helps preserve investments.
- Borland Database Engine (BDE) 5.01 — supports performance improvements and optimizes SQL queries
- INTERSOLV DataDirect ODBC Paradox 9 driver — enables data sharing between different database applications
- Java™ Database Connectivity (JDBC) driver — provides users with a direct connection to the Borland Database Engine from Java programs
- HTML Expert — helps users publish tables and reports as static or dynamic HTML documents
- ObjectPAL — a powerful event-driven, object-oriented programming language

## Overview of the New and Enhanced Features in Paradox® 9

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Paradox 9 provides new and enhanced features in four categories: performance and productivity, compatibility, integration capabilities, and Java Internet features. Paradox 9 is focused on offering users value, compatibility, and a viable choice for database applications.

### Performance and Productivity Features

The following performance and productivity features let new and experienced users perform common database tasks easily and efficiently.

**Install As You Go™:** Install As You Go lets users minimize the hard disk space required by Paradox applications. Users can avoid wasting hard disk space on applications they do not use by installing only the applications and utilities they need. If users select an uninstalled item, the application asks if they would like to install it.

**Welcome Screen:** The Welcome Screen appears when users start Paradox 9 for the first time. This screen contains all the items new users need to become acquainted with Paradox applications, including New Database, Open Database, Database Templates, Paradox Experts, and the online tutorial.

**Online Tutorial:** The tutorial takes new users through eight lessons to introduce them to the concepts they need in order to create a database from scratch.

**Vertical Database Templates:** Paradox 9 includes a set of Vertical Database Templates designed for business, corporate, and personal databases. The templates let users create new databases quickly and easily. New users can build a complete database for standard business processes. Corporate users can use templates designed for human resources, expense reports, event planning systems, and project management. Business users can use templates designed for contact management, job costing, and order entry and inventory. For personal users, there are templates for an address book, check book, and home assets.

**Visual Database Designer:** The Visual Database Designer helps users understand the basics of database design, and lets them create and modify tables and table links. Users can print the tables, fields, and relationships.

**Enhanced Dialog Boxes:** Paradox 9 has enhanced dialog boxes to reflect the standard appearance and content of Windows 95 and the other components of WordPerfect Office 2000.

**Table Structure dialog box:** Paradox 9 includes a new tabbed dialog box, designed to make the table structure dialog box easier to use. Each tab represents a different table property.

**SQL Query Expert:** The Query Expert lets users build an SQL query based on one or many tables in their database. The results are displayed in an answer table.

**Find Duplicate Expert:** The Find Duplicate Expert creates a query that finds records with duplicate field values in a table. The results are displayed in an answer table.

**Visual Query Builder (VQB):** The Visual Query Builder lets users create and execute SQL queries without typing code. Users can create a full range of queries, as well as view and edit the resulting SQL code as it appears in an editor window.

**Enhanced Borland Database Engine:** Paradox 9 includes the newest version of the Borland Database Engine, version 5.01.

**Enhanced accessibility:** Paradox 9 includes the Windows High-Contrast mode, keyboard shortcuts for all features, and standard user interface controls to make third-party accessibility tools compatible with Corel applications.

**Dockable and customizable toolbars:** Paradox 9 lets users dock toolbars wherever they choose. Users can also customize the toolbar.

## Compatibility Features

Compatibility features ensure that Paradox 9 users can share data with different applications. Desktop database users demand that applications be both backward compatible and compatible with other business applications, such as Microsoft Access. Paradox 9 includes the following new features to ensure compatibility.

**Cross-Windows compatibility:** Paradox 9 is fully backward compatible, which means that files created in earlier versions of the application can be used in Paradox 9. For example, users can load Paradox 7 tables into Paradox 9 without losing data.

**Enhanced compatibility:** Paradox 9 has enhanced compatibility to let users connect to all ODBC-complaint desktop database applications, such as Microsoft Access 97, Microsoft Fox Pro, and dBase.

**Enhanced Import and Export capabilities:** Paradox 9 has enhanced import and export capabilities to let users import and export files from Microsoft Excel, Lotus® 1-2-3®, Quattro Pro, and WordPerfect (export only).

**Support for the Rich Text Format (RTF) file format:** Paradox 9 lets users publish reports in the .RTF and .DOC file formats. Paradox files can be viewed in any application that supports the .RTF file format, such as Microsoft Word.

**Support for JPEG file format:** Paradox 9 lets users store JPEG (.JPG) files in a table.

**Support for Microsoft IntelliMouse:** Users who have a Microsoft IntelliMouse can use it to scroll and zoom in a table, form, or report.

## Integration Capabilities

Increasingly businesses are choosing 32-bit office suites, such as the WordPerfect Office 2000 Professional Edition. More users are exposed to desktop databases and the benefits of using this type of application in a business environment. Users require the database to integrate with the other core applications in the office suite. Paradox 9 has a consistent user interface with core applications in the WordPerfect Office 2000 Professional Edition.

**Publish reports to WordPerfect:** Users can publish Paradox 9 reports to WordPerfect 9.

**Enhanced Copy and Paste functionality:** Users can copy and paste data from a Paradox 9 table to a Quattro Pro spreadsheet.

**Integrated common toolbar:** The Paradox 9 toolbar is common to the other applications in the WordPerfect Office 2000 Professional Edition.

**Spell Checker:** Paradox 9 lets users spell check data in edit and memo fields that appear in tables and forms.

## Java™ Internet Features

Paradox 9 tools let users create Internet and intranet Web forms easily. The application is an effective tool for managing, retrieving, and reporting data. Users can share live data from a Web site that is associated with a Paradox database.

**Paradox Web Form Designer:** The Paradox Web Form Designer lets users create forms by using embedded JavaBeans without writing code. Java Applets embedded in HTML files help users create platform-independent Web forms. This features is WYSIWYG.

**Paradox JDBC Driver:** The JDBC Driver is a developer tool used to connect databases. It gives users standard SQL access to databases from Java programs, including the Paradox Web Form Designer. The Paradox JDBC driver provides users with a direct connection to the Borland Database Engine (BDE).

**Dynamic HTML documents:** HTML Table Expert or HTML Report Expert lets users publish to a Web page up-to-date data in Paradox tables and reports. This feature is compliant with standard Web servers that support Java servlets. Once a Paradox document is published to a Web page, the data is updated each time a user accesses that page.

## Where Do I Get More Information?

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