

Borland® Kylix™ 3

Feature Matrix

	ENTERPRISE	PROFESSIONAL	OPEN
High-performance native Linux® applications			
New! High-performance 32-bit optimizing C/C++ native-code compiler as well as the lightning-fast Borland® Delphi™ language compiler	✓	✓	✓
New! Inline assembler support for Intel® Pentium® 4	✓	✓	✓
New! Precompiled header support for faster C++ compiles	✓	✓	✓
Easily create reusable shared object libraries (.so) and royalty-free standalone executables	✓	✓	✓
Use and create dynamically loaded packages for increased application efficiency	✓	✓	✓
Inline assembler with support for full Intel 32-bit x86 instruction set (including Pentium Pro, Pentium III, Pentium 4, MMX,® SIMD, and Streaming SIMD Extensions (SSE)), and AMD® 3DNow™	✓	✓	✓
Expression evaluation in compiler directives	✓	✓	✓
Custom variants to support your own data types	✓	✓	✓
Custom variant data handler for passing variants through data sets	✓	✓	✓
Custom variants in safe arrays	✓	✓	✓
Expanded variant support for Int64 and the unsigned types	✓	✓	✓
Complex number support via custom variants	✓	✓	✓
Deprecated Hint Directive to help guard your application development	✓	✓	✓
Platform and Library Hint Directives to assist in cross-platform development	✓	✓	✓
Borland® Rapid Application Development (RAD) IDE			
New! Includes IDEs that support both C++ and Delphi languages	✓	✓	✓
True visual development with Borland® Two-Way-Tools™ for building GUI applications	✓	✓	✓
Powerful visual development with Two-Way-Tools for building Web and database applications	✓	✓	

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New! Tools Server enhances control of your C++ projects			
New! Invoke external tools by file type within the build process (i.e., call Bison/Yacc for .y files) in the C++ IDE	✓	✓	
New! Add additional right-click options to file types for greater build flexibility within your projects in the C++ IDE	✓	✓	
New! Redirect file types to new default commands in the C++ IDE	✓	✓	
New! Export project to GNU make file for automated builds	✓	✓	
New! Visual designers—diagram views	✓	✓	✓
New! Object TreeView for quicker navigation among the components on your forms	✓	✓	✓
Multiple custom Desktop Layout Profiles for total control of your development environment	✓	✓	✓
Object Inspector™ subcomponent references to save time locating linked components—directly drill-down into subcomponents	✓	✓	✓
Class Completion accelerates creating new object types	✓	✓	✓
Packages in Project Manager	✓	✓	✓
Environment variables in search path to enable automatic location of required files	✓	✓	✓
Advanced multi-target Project Manager	✓	✓	✓
Data modules for centralized data integrity and business rules	✓	✓	✓
Console application wizard for quickly writing text-mode applications	✓	✓	✓
Visual Form Inheritance and form linking	✓	✓	✓
Editor key mapping, including Emacs, to fine-tune the editor to the way you work	✓	✓	✓
Project-wide browsing to better understand your code and to navigate CLX™	✓	✓	✓
To-do lists to keep your development on schedule	✓	✓	✓
Open Tools API to integrate your favorite tools	✓	✓	✓
Borland AppBrowser™ code editor with symbol hyperlinks and navigation history	✓	✓	✓
Maximum reusability with Kylix object-oriented component architecture			
Object-oriented, fully extensible component and application architecture in Borland CLX™ (Component Library for Cross-platform)	✓	✓	✓
CLX Visual Form Inheritance and form linking to reduce coding and simplify maintenance	✓	✓	✓
Object Repository for storing and reusing forms, data modules, and experts	✓	✓	✓
Library of drag-and-drop reusable components	✓	✓	✓
Component Library for Cross-platform drag-and-drop reusable components for Linux and Windows®*	✓	✓	✓

*Compiling applications for Windows® requires Borland® C++Builder™ 6, Delphi™ 6, or Delphi 7 Studio.

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Code Explorer for an automatically updated class reference for your Delphi-language application unit files	✓	✓	✓
CodeInsight™—speed coding and reduce syntax errors			
Code Templates Wizard for simplified code creation	✓	✓	✓
Code Completion Wizard to help ensure proper syntax	✓	✓	✓
Code Parameter Wizard for displaying procedure, method, and event parameter lists	✓	✓	✓
Shared object debugging saves time in creating and debugging shared objects	✓	✓	✓
Class navigation short cuts for Delphi™ language	✓	✓	
Class Completion Wizard for Delphi language	✓	✓	
ToolTip Symbol Insight	✓	✓	
New! HTML code completion	✓	✓	
Advanced debugging			
Full-featured debugger with color syntax highlighting	✓	✓	✓
ToolTip Expression Evaluation for quicker debugging	✓	✓	
Shared object debugging for easier and more complete debugging control of your application extensions	✓	✓	✓
Multiprocess, cross-process, and attach-to-process debugging for easy tracing through complex applications	✓	✓	
Temporary process options for focused multiprocess debugging	✓	✓	
Module View to visually drill down into loaded modules	✓	✓	✓
Streamlined usability and integration among debug windows and the editor including clipboard and drag-and-drop support	✓	✓	✓
Run until return	✓	✓	✓
Advanced breakpoints with DataAware triggers, ToolTips, actions, and groupings for faster and complete debugging control	✓	✓	✓
CPU view for low-level debugging	✓	✓	✓
FPU view with support for MMX for enhanced low-level debugging	✓	✓	✓
Debug-spawned processes	✓	✓	
Attach-to and debug running processes	✓	✓	
Detach from debugging processes without terminating	✓	✓	
Debug Inspector™ for monitoring component properties while debugging	✓	✓	
Inspector View with fully qualified names	✓	✓	
Event Log for showing process control messages and debug output	✓	✓	
Local Variables View	✓	✓	

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Easier debugging with DCUs and debug symbol search paths	✓	✓	

Simplifying international development

Multibyte-enabled development environment	✓	✓	✓
Multibyte-enabled CLX	✓	✓	✓

RADical visual development

Borland CLX™—the Component Library for Cross-platform enables your code on Linux® and Windows®!*

More than ___ CLX native components for Rapid Application Development on Linux and Windows*	190+	165+	75+
New! FileOpen and FileSave dialog components	✓	✓	✓
VisualCLX™ native GUI components and data-aware visual controls	✓	✓	✓
VisualCLX GUI display components—Form, EditBox, Label, Grid, Image, Bevels, Listbox, ComboBox, ListView, TreeView, ProgressBar, and more	✓	✓	✓
VisualCLX GUI DataAware components—Navigator, EditBox, Label, Grids, Image, Listbox, Checkbox, RadioGroup, LookupLists, and more	✓	✓	
VisualCLX GUI input components—Menus, PopupMenus, Buttons, Checkboxes, RadioButtons, SpeedButtons, SystemTimer, Sliders, and more	✓	✓	✓
VisualCLX GUI control components—Toolbars, Scrollbars, Controlbars, Splitters, GroupBoxes, TabControls, PageControls, StatusBars, and more	✓	✓	✓
Common CLX GUI dialogs—Open, Save, Font, ColorPicker, Find, and Replace	✓	✓	✓
DataCLX™ highly scalable data-access components	✓	✓	

Borland source code

BaseCLX,™ DataCLX, and VisualCLX source code	✓	✓	✓
Property Editor source code	✓	✓	

Database development for your applications

Highly scalable DataCLX™ database development architecture

The Borland DataSet abstraction layer makes database programming easier, from local flat files to the most powerful RDBMS	✓	✓	
Produce cross-platform applications with flexible data aware controls that are single-source between Kylix on Linux and Delphi, or C++Builder on Windows!	✓	✓	
ClientDataSet-maintained aggregates and parameter support	✓	✓	
Advanced application-side transaction caching to optimize RDBMS server connectivity	✓	✓	

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	ENTERPRISE	PROFESSIONAL	OPEN
DataSetProvider for flexible binary- and XML-distributed data connectivity	✓	✓	
Provider Optional Parameters, calculated fields, and field properties	✓	✓	
Master/Detail Provider and Resolver support	✓	✓	
On-demand Blobs	✓	✓	
MyBase™ XML Data Briefcases for transparent mobile and low-bandwidth connectivity support	✓	✓	
CommandText property for building custom queries at client side	✓	✓	

Broad range of data-access options—get access to the data your application needs

Borland dbExpress™ for high-performance native SQL RDBMS access	✓	✓	
All data access options use common DataSet/DataCLX Programming Model—use any data-access method with one skill set	✓	✓	

Integrated database development tools—simplify client/server development

Data aware components to build powerful database applications	✓	✓	
DB Control Grid	✓	✓	
SQL Monitor component to help test, debug, and tune SQL applications for optimal performance	✓		
SQL Assistant to aid in writing complex SQL easily	✓	✓	

dbExpress™ native cross-platform database connectivity—access your data at extreme speed

Multiple transactions on a single connection	✓	✓	
dbExpress high-performance database driver interface for building open access to database engines	✓	✓	

High-performance database drivers

New! dbExpress drivers for Oracle9i™ and IBM® Informix® SE	✓		
dbExpress drivers for Borland® InterBase®, MySQL™	✓	✓	
dbExpress drivers for Oracle, IBM® DB2® and Informix	✓		
dbExpress drivers for PostgreSQL and Red Hat® Database	✓	✓	

MyBase™ personal XML database engine

Database engine-in-a-component design for lightweight single-file application distribution	✓	✓	
XML file database for complete simplicity and interoperability	✓	✓	
Fast in-memory table performance	✓	✓	
Zero configuration for instant setup and simple application distribution	✓	✓	
Small footprint—less than 300k linked in executable or OK with shared packages	✓	✓	

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ANSI 92 SQL Expression Syntax for live filtering and aggregation	✓	✓	
Linkable master/detail table relationships	✓	✓	
ClientDataSet based with transparent scalability to dbExpress and DataSnap™ for unlimited scalability	✓	✓	
Import SQL query results from any dbExpress RDBMS into local MyBase XML tables	✓	✓	
Support for popular data types including Blobs	✓	✓	

Advanced Borland® InterBase® support

InterBase 6.5 five-user license to develop and test multi-user SQL applications	✓	✓	
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Powerful tools for e-business

BizSnap™—Web Services with XML technologies

Rapidly build industry-standard Web Services and Web Services consumers using XML, XSL, SOAP, WSDL, and more	✓		
New! in Professional Rapidly build Web Services consumers using XML, XSL, SOAP, WSDL, and more	✓	✓	
WSDL wizards and components mean you can easily access Internet Web Services and add functionality to your own applications	✓	✓	
Create applications that seamlessly interoperate across the Internet with standards-based Web Services platforms such as Microsoft® .NET,™ Sun® ONE, and others!	✓	✓	
SOAP communication wizards and components make building Web Services a snap!	✓		
New! in Professional Kylix native SOAP bindings deliver type and syntax checking with CodeInsight™ and more with SOAP Web Services clients	✓	✓	
XML transform components (XML<->dataset, XML<->XML) enable your application to translate XML data between XML and dataset formats easily	✓		
XML schema transform tools and utilities provide translation between XML data, DTDs, and XDR schema and datasets automatically, making XML schema analysis, creation, and XML data transformations a snap!	✓		
Native Kylix XML bindings radically simplify XML programming-XML documents become native Kylix objects	✓		
Multiple XML DOM level 2 support for vendor-independent DOM compatibility means you avoid vendor lock-in and incorporate data from virtually any XML source	✓		
XML doc object in CLX provides fast programmatic access to new XML formats	✓		
New! HTML and XML-schema/XML-DTD support	✓	✓	
XML document objects and native Web Services WSDL bindings leverage CodeInsight and compiler type-checking	✓		

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WebSnap™ —the complete Web application development platform based on NetCLX™			
Deploy your Web applications to Apache™ with support for Apache DSOs and CGIs	✓		
WebPage Surface Designers to rapidly build and view your WebSnap™ application surfaces in HTML and an instantly-updated browser preview of your application	✓		
Server-side scriptable Web page components to easily interface WebSnap/NetCLX™ objects with Web site development teams and scripters	✓		
Pre-built scriptable Web page components—datasets, login forms, end-user sessions, and other commonly required Web application elements	✓		
New! Page producers and dispatchers for servicing standard and XSL-transformed XML pages, logical pages, and your own custom adapters and services	✓		
Multiple Web modules in a single project to organize your pages and your site	✓		
New! XSL page producers for combining XML source data with XSL transforms to produce full-page outputs to HTML	✓		
Server-side scripting in WebSnap with JavaScript®	✓		
NetCLX™ WebBroker™ —compatible, cross-platform Web application development framework for Linux® and Windows®			
Develop single-source applications for deployment to Web servers on Linux and Windows*	✓	✓	
NetCLX Web application framework for high-speed, high-throughput, cross-platform Web applications compatible with WebBroker™	✓	✓	
NetCLX Web application components for cross-platform development on Apache,™ Microsoft® IIS, Netscape,® and more using Apache DSO/CGI, ISAPI, NSAPI	✓	✓	
WebModules™ for centralized information publishing to Internet applications	✓	✓	
Web application wizard gets you up and running quickly	✓	✓	
WebDispatcher™ component for issuing rapid responses to browser requests and adapting any Data Module to the Web	✓	✓	
WebBridge for an open solution that supports Apache DSO/CGI and ISAPI/ NSAPI	✓	✓	
Page preview with HTML 4 support	✓	✓	
New! Web application debugging hosted in the IDE	✓	✓	
Web application wizards make getting started on Web development a breeze	✓	✓	
Internet socket components to customize your own networked applications	✓	✓	
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DataSnap™ Web Services-enabled database middleware			
Web client, GUI client, and Web Services access to any supported RDBMS	✓		
SOAP/XML connections available for maximum network connectivity and flexibility	✓		
Easily build SOAP/XML Web Services interfaces to enterprise-class databases—Oracle, Informix, DB2, and more!	✓		
Dataset-based architecture for rapid learning curve—use existing skill sets to scale your applications	✓		
Support for dbExpress™ data access architectures	✓		
High availability with object broker fail-over safety to guarantee your data is ready when you need it	✓		
Load balancing to promote high performance even when under the heaviest loads	✓		
Distributed data with transaction processing extends the reach of your applications while maintaining data integrity	✓		
Automatic database constraint propagation brings the business rules to the client applications for local processing, conserving server horsepower	✓		
Low-maintenance, thin, and easily configured client-side applications to reduce deployment costs	✓		
High-speed database connectivity yields higher performance in your applications	✓		
Server object pooling dramatically increases the conservation of resources on your servers, keeping materials costs down	✓		
Supply data to thin-client applications rapidly, efficiently, and securely	✓		
Remote DataBroker™ to easily partition applications	✓		
TransactionResolver for transaction conflict resolution	✓		
Advanced Master/Detail Provider and Resolver support	✓		
Stateless DataBroker for more control in mobile and low-bandwidth situations	✓		
Server object pooling for complete scalability	✓		
Provider options increase control over how and what information is transmitted	✓		
New! Unlimited and royalty-free DataSnap development license included	✓		
Simple DataSnap deployment licensing	✓		
CORBA® support			
New! Borland® VisiBroker® 4.5 for Kylix™ 3 including CORBA® client and server development for the Delphi™ language**	✓		
Wizards to simplify development of CORBA clients and servers	✓		
Borland® Enterprise Server, Web Edition 5 support—build new rich applications and Web Services with the Delphi™ RAD environment that uses EJB™ for Borland AppServer™	✓		

**Borland® VisiBroker® 4.5 for Kylix™ 3 for C++ is currently planned to be included in a free update after this release.

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Documentation, examples, and online help			
Comprehensive online documentation for quick reference	✓	✓	✓
Printed developer documentation for offline consulting	✓	✓	
Context-sensitive help throughout the IDE on commands, dialogs, components, keywords, and more!	✓	✓	✓
Sample applications to learn from and get started quickly	✓	✓	✓
Third-party component solutions			
Enhanced! Nevrona Indy 9.1-Internet protocol component suite including HTTP, FTP, SLL, SMTP, POP3, and more	✓	✓	
Flexible target application type licensing			
Proprietary commercial and/or GPL open source	✓	✓	
GPL open source only			✓

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