

Borland Turbo™ Delphi®

Feature Matrix

INTEGRATED COMPILERS	PRO	EXP
High-performance 32-bit optimizing Borland Delphi® native code compiler	✓	✓
32-bit inline assembler with support for the full Intel® x86 instruction set (including Intel Pentium® Pro, Pentium III, Pentium 4, Intel MMX,™ SIMD, Streaming SIMD Extensions, SSE, SSE2, and SSE3, and AMD® 3DNow!®)	✓	✓
FRAMEWORKS AND SDKS	PRO	EXP
VCL for rapidly building Borland Developer Studio applications for Microsoft Win32® -- with full RAD Visual design	✓	✓
Microsoft Win32 SDK	✓	✓
RAD TWO-WAY VISUAL DESIGNERS	PRO	EXP
AtoZed IntraWeb 8.0 RAD Web page development	✓	
VCL forms designer	✓	✓
Together® powered Unified Modeling Language™ (UML®) designer	✓	✓
LANGUAGE FEATURES		
“for in” loop iteration	✓	✓
Function in-lining for increased application performance	✓	✓
Unicode strings	✓	✓
Operator overloading	✓	✓
Class variables/class static data	✓	✓
Nested types	✓	✓
Records with methods (value types)	✓	✓
Expression evaluation in compiler directives	✓	✓
Create reusable native 32-bit dynamically linked libraries (.DLL), COM controls (.OCX), and standalone executables	✓	✓
Custom variants with support of your own data types, complex numbers, safe arrays, and passing variants through data sets	✓	✓
Expanded variant support for Int64 and the unsigned types	✓	✓
PROJECT SUPPORT	PRO	EXP
Delphi 1 through 2005 VCL project import into Turbo Delphi VCL Projects (does not include external 3 rd party components)	✓	✓
Project dependency checking	✓	✓
Project level build ordering	✓	✓
Compile or build current project and all later projects	✓	✓
PERSONAL DEVELOPER PRODUCTIVITY	PRO	EXP
Editor “Change Bar” indicates modified lines and saved session modified lines	✓	✓
Live Templates System – tab through fields and insert points of any template	✓	✓
Unified Template and Code Snippets system	✓	✓
Surround Templates – wrap “surroundable” templates around selected code or text	✓	✓
Scriptable Templates – customize the behavior, code generation, and user experience of your templates	✓	✓
“Smart” Block completion – anticipates and gracefully adds block closures as you type	✓	✓
Code navigation – quickly “hop” from method to method within your code	✓	✓
Virtual form positioner for VCL designers in “docked” mode	✓	✓
Hot-key Searchable Tool Palette — find any component quickly	✓	✓

Gallery Palette — Gallery Wizards in the tool palette when you need them	✓	✓
Multi-Target Project Manager supports all language projects, even within the same Project Group	✓	✓
SyncEdit — block-edit multiple instances of a symbol simultaneously	✓	✓
Automatic multi-level local file backups	✓	✓
History Manager with file differencing and restore	✓	✓
IDE Welcome Page — with fast access to recent projects, Borland Developer Studio and Borland Developer Network RSS news feeds, documentation, demos, examples, helpful links, updates, Weblogs, and more	✓	✓
Integrated QualityCentral — submit bug reports and feature requests to Borland	✓	✓
Class navigation shortcuts	✓	✓
Structure Pane for source code and form designer	✓	✓
Syntax Highlighting Open Tools API extension with built in support for JavaScript, PHP, and INI files	✓	✓
Ability to individually customize editor options for particular file types	✓	✓
Open Tools API for code completion and symbol table queries	✓	✓
Symbol Insight — click to navigate to declarations and implementations	✓	✓
Code Insight—Faster performance and improved code and parameter completion provide on-the-fly member lists and parameter hints as you type	✓	✓
Code Insight – Code completion for DTD described markup language including HTML, WML, XHTML, and XSL	✓	✓
Editor Gutter – easier to read with less clutter	✓	✓
Code Completion for Delphi, HTML, WML, XHTML, XSL, and CSS	✓	✓
VCL Object Treeview for quick navigation and manipulation of object in the VCL designers	✓	✓
Class completion	✓	✓
Custom IDE desktop layout profiles with enhanced support for docked windows	✓	✓
Import Type Library	✓	✓
New Component wizard for component creation and registration	✓	
Code templates — code repository makes on-the-fly code reuse fast and simple	✓	✓
To-do lists keep your development on track	✓	✓
Help Insight — convenient tooltips provide help snippets as you develop	✓	✓

REFACTORINGS

	PRO	EXP
Introduce Variable refactoring	✓	✓
Introduce Field refactoring	✓	✓
Inline Variable refactoring	✓	✓
Change Parameters refactoring	✓	✓
Safe Delete refactoring	✓	✓
Push Members Up / Down refactoring	✓	✓
Pull Members Up refactoring	✓	✓
Extract Superclass refactoring	✓	✓
Extract Interface refactoring	✓	✓
Move Members refactoring	✓	✓
Rename refactoring	✓	✓
Declare variable refactoring	✓	✓
Declare field refactoring	✓	✓
Extract method refactoring	✓	✓
Extract to resource string refactoring	✓	✓
Find unit/import namespace refactoring	✓	✓
Refactor driven “Find in Files”	✓	✓

TOGETHER® MODELING

	PRO	EXP
Full two-way LiveSource® class diagrams	✓	✓

OCL 2.0 support	✓	✓
"UML in Color" profile	✓	✓
Diagram hyperlinking and annotations	✓	✓
Diagram printing	✓	✓

DEBUGGING

PRO EXP

Full-featured Win32 debugger	✓	✓
Expandable tooltip expression evaluation	✓	✓
Expandable watches	✓	✓
Expandable local variables view	✓	✓
Selective symbol table loading	✓	✓
Close implicitly opened files after debugging	✓	✓
Multi-select and copy to clipboard support in CPU view	✓	✓
Ctrl-Click in editor gutter to enable/disable breakpoints	✓	✓
Sort by load order in Modules view	✓	✓
Set Next Statement local menu item in editor	✓	✓
Exception notification dialog: Break/Continue buttons, "Ignore exception type" checkbox display the exception message	✓	✓
FPU view with support for MMX and SSE, SSE2, and SSE3 support	✓	✓
Remote debugging	✓	
Thread view displays status on all processes and threads under debugger control	✓	✓
CPU view for low-level debugging	✓	✓
Evaluator	✓	✓
Watch view supporting in place editing, checkbox enable/disabling, and the watch names separated from the values with columns	✓	✓
Multi-tab watch view for logically grouping variables	✓	✓
Breakpoint view with toolbar, in-place editing, and enable/disable checkbox	✓	✓
Multi-process debugging for easy tracing through complex applications	✓	✓
Attach to and debug any process	✓	✓
Detach from any process	✓	✓
Run until return	✓	✓
Advanced breakpoints with Tooltips, actions, and groups for complete debugging control	✓	✓
Breakpoint Data Aware Triggers	✓	✓
Debug spawned processes	✓	✓
Debug Inspector for easily monitoring properties while debugging	✓	✓
Event log view	✓	✓

INTEGRATED UNIT TESTING

PRO EXP

Integrated unit testing with DUnit testing frameworks	✓	✓
Unit test wizards for quick and easy unit test and unit test project creation	✓	✓
Integrated project and project manager support for unit tests	✓	✓
Unit test code generation with full code to invoke each method	✓	✓
Update existing unit test cases with new test methods	✓	✓
Execute unit tests from project manager	✓	✓

DATABASE DEVELOPMENT AND CONNECTIVITY: VCL

PRO EXP

TClientDataSet actions	✓	✓
dbExpress local data connectivity to InterBase® v7.5 and v7.5.1	✓	✓
dbExpress local data connectivity to MySQL 4.0.24	✓	✓

Borland dbGO for ADO connectivity for Win32 (MDAC 2.8)	✓	✓
BDE support for dBASE and Paradox on VCL	✓	✓
InterBase Express components for VCL	✓	
DATABASE EXPLORER	PRO	EXP
dbExpress support	✓	✓
Drag and Drop from the dbExpress node into VCL Forms	✓	✓
Multiple SQL windows	✓	✓
INCLUDED DATABASES	PRO	EXP
InterBase 7.5.1 Developer Edition—up to 20 users and 80 logical local connections	✓	✓
Multiple Instance support allows multiple versions of InterBase to run on the same machine simultaneously	✓	✓
InterBase Enhanced SQL support language construct support for CASE, COALESCE, and NULLIF	✓	✓
InterBase Global Temporary Tables transparently manage all namespaces, making development more easily managed once the temporary table is declared to the database schema	✓	✓
InterBase embedded database user authentication for unique user account management for multiple embedded InterBase applications	✓	✓
InterBase SMP scalability using advanced technologies such as spinlocks and thread-private latch caches for optimized processor utilization and increased throughput	✓	✓
InterBase IBConsole with new streamlined GUI, performance, and stored procedure monitoring and trigger cache management	✓	✓
Microsoft SQL Server Desktop Engine 2000 (MSDE 2000) support	✓	✓
Borland Database Engine for dBASE and Paradox	✓	✓
REPORTING SOLUTIONS	PRO	EXP
Nevrona Rave Reports Borland Edition for Win32 VCL	✓	
ADDITIONAL COMPONENTS AND TOOLS	PRO	EXP
glyFX Icon Library – Borland Edition	✓	✓
XML/SOAP WEB SERVICES DEVELOPMENT	PRO	EXP
Easily create Win32 XML/SOAP Web Services	✓	✓
UDDI Web Services import to add SOAP/XML into your applications	✓	✓
BIZSNAP™	PRO	EXP
UDDI browser	✓	✓
Automatic UDDI client failover	✓	✓
Global XML Architecture (GXA) for Web Services	✓	✓
Binary attachments	✓	✓
REMOTING AND APPLICATION CONNECTIVITY	PRO	EXP
Import .NET assemblies as COM objects in Win32 VCL applications	✓	✓
SOAP Web Services development for Win32	✓	✓
DCOM support	✓	✓
COM+ Object Wizard to easily create COM+ objects and servers ???	✓	✓
COM+ Object Subscription Wizard to easily consume COM+ events ???	✓	✓
Advanced Type Library Editor with complete support for Microsoft IDL editing ???	✓	✓
Support for Automation Object event handling	✓	✓
COM Object Wizard	✓	✓

Microsoft ActiveX® Control Data binding	✓	✓
Support for sparse vtables to support VB servers	✓	✓
Import COM servers as components to develop visually	✓	✓
WEB/INTERNET DEVELOPMENT: VCL	PRO	EXP
IntraWeb 8.0 WYSIWYG RAD Web page development	✓	
Delphi WebBroker and WebSnap Microsoft Internet Information Server (IIS) CGI and ISAPI Web application framework, wizards, components, and classes	✓	✓
Indy v10 components with more than 120 Internet protocols and Internet standards including TCP, UDP, ICMP, SMTP, POP3, IMAP4, HTTP, NNTP, FTP, IPv6, and much more	✓	
VISUAL COMPONENT LIBRARY FOR WIN32® (VCL)	PRO	EXP
Live Designer Guidelines with “smart” drag and snap-to lines	✓	✓
Margin and Padding properties for all VCL controls	✓	✓
Text baseline alignment	✓	✓
Extensible user registerable guidelines	✓	✓
VCL Flow Panel – HTML style form layouts with Autopositioning	✓	✓
VCL Grid Panel – table style form layouts with Autopositioning and Autosizing	✓	✓
VCL System Tray Component – easily create Windows Tray applications	✓	✓
IntelliMouse® “pan and scroll” support for VCL controls	✓	✓
TToolBar and TControlbar– updated look and feel	✓	✓
Embedded Type Library Editor with message view error reporting	✓	✓
Windows XP themes	✓	✓
Windows XP theme support for Action Manager	✓	✓
TDockTabSet tabbed docking component with autohide	✓	✓
TCategoryButtons — collapsible button categories just like those in the new Tool palette	✓	✓
TButtonGroup for combining buttons into a group	✓	✓
TPopUpActionBar — pop-up version of TActionMainMenuBar	✓	✓
TOpenTextFileDialog and TSaveTextFileDialog with user-selectable text encoding method	✓	✓
Standard, Data Controls, Dialogs, Additional, Win32, System, Win 3.1, Data Access, and BDE component categories	✓	✓
Internet Direct (Indy) component category	✓	
Visual Form Inheritance and Form linking to reduce coding and simplify maintenance	✓	✓
Object-oriented and reusable component and application architecture	✓	✓
Fully extensible application architecture	✓	
Object Repository for storing and reusing forms, Data Modules, and experts	✓	✓
Code Explorer for updated class reference for your application’s unit files	✓	✓
TDateTime extensions accelerate your date and time calculations	✓	✓
SubComponent classes combine commonly mixed components for greater utility and speed the creation of user interfaces	✓	
Conversion Unit simplifies measurement conversion	✓	✓
Visual component creation and registration	✓	
Modern UI features: Docking, IntelliMouse support, minimum and maximum component sizing constraints, and border anchors in visual components	✓	✓
Action List for managing and directing commonly used code in an application	✓	✓
Windows Server™ 2003, Windows XP, and Windows 2000 support for Multi-Monitor, MonthCalendar, PageScroller, and Flat Scrollbars	✓	✓
Support for Advanced Custom Draw functions for increased control over the Windows API	✓	✓
Action MainMenu and Action ToolBar components for sophisticated and centrally controlled user interface design with	✓	✓

dynamic Action Manager-driven UI surfaces		
Action Manager provides central management of your actions and self-configuring dynamic user interfaces, taking the tedium out of UI design	✓	✓
ActionBands Customization Manager gives end users total control over ActionBands UI configurations at runtime	✓	✓
ControlBar for creating floating toolbars in GUI applications	✓	✓
Frames for building and reusing compound components	✓	✓

About Borland

Founded in 1983, Borland Software Corporation (NASDAQ: BORL) is the global leader in platform independent solutions for Software Delivery Optimization. The company provides the software and services that align the people, process, and technology required to maximize the business value of software. To learn more about delivering quality software, on time and within budget, visit <http://www.borland.com>.

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