Borland® JBuilder® 9

Feature Matrix

	PERSONAL	DEVELOPER	ENTERPRISE
Developer productivity			
Support for the latest Java [™] standards			
Build Java [™] applications, applets, and JavaBeans [®] with no proprietary code or markers	1	1	1
True two-way visual IDE with Borland [®] Two-Way-Tools [™]	✓	✓	1
Cross-platform development—with customizable look-and-feel—on the Windows, Linux, and Solaris operating systems	✓	✓	✓
Visual development using the Java 2 JFC/Swing components for professional UI development in Java	✓	✓	✓
Support for the latest Java standards including Java 2, Java 2 JFC/Swing, XML, Java2D, Message Queue, Java collections, Accessibility API, Speech API, and more	✓	✓	✓
Built-in support for the latest Java 2 platform	✓	✓	
Includes Java 2 SDK 1.4 with built-in HotSpot [™] Client Virtual Machine for increased performance	1	1	1
Borland [®] JBuilder [®] IDE hosted on Java 2 SDK 1.4.1 for enhanced platform interoperability and performance	1	1	1
Develop, debug, and compile with Java 2 SDK 1.3 and SDK 1. 4	✓	✓	✓
Support of all JDK [®] 1. 4 language features including asserts	✓	✓	✓
Visual two-way Java environment for rapid developer produc	tivity		
IBM® VisualAge® for Java form designer support	✓	✓	✓
Themed audio feedback with customizable audio themes	✓	✓	✓
Professional IDE with integrated Borland AppBrowser, [™] editor, debugger, compiler, and help	✓	✓	✓
Wizards for rapid development of applications, applets, JavaBeans, and more	✓	✓	✓
Visual Java 2 two-way designers and wizards for drag-and-drop JFC/Swing application development	1	1	1
Customizable code creation based on developer style preferences	✓	✓	1
Visual customization of Java layout managers for rapid UI development	✓	✓	✓
Visual menu designer	✓	✓	✓

PERSONAL

DEVELOPER

ENTERPRISE



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	PERSONAL	DEVELOPER	ENTERPRISE
Visual design of JavaBeans components and integration of third-party components to the component palette	✓	✓	✓
Unicode® -enabled editor with mapping to single and double-byte code pages	✓	✓	✓
OpenTools API for adding new and customizing existing functionality of the JBuilder environment	✓	✓	1
Customizable toolbar	✓	✓	✓
XML-based Project Manager supporting JPX project file format	✓	✓	✓
Context-sensitive help (F1) on source editor keywords	✓	✓	1
Two-way code migration			
Create project from existing code wizard		√	✓
Import project from version management system		✓	✓
Import Enterprise JavaBeans [™] (EJB [™]) applications from existing code			✓
Import Web applications from existing code		✓	✓
Import VisualCafé [™] project wizard			✓
Configuration management			
New! Export project configurations as an Apache [™] Ant Script		✓	✓
Project groups		✓	✓
Add another project as a library			✓
Select compiler including Borland Make for Java (bmj) or javac, the Java compiler		✓	✓
Configuration management infrastructure which supports custom enterprise build processes and external Ant 1.5 builds	✓	✓	✓
Extend the build system with custom build tasks	✓	✓	✓
Add Ant nodes to projects and execute Ant targets from within JBuilder	✓	✓	1
Add custom Ant-based build tasks with custom Ant libraries to run Ant from within JBuilder	1	1	1
Rapid navigation from Ant build error messages to source files	✓	✓	✓
Customize build menu and toolbar with custom build targets	✓	✓	✓
Support for SQLJ [™] (Supports the Oracle [®] and IBM [®] DB2 [®] translators for SQLJ to generate Java from SQLJ)			✓
Open Tools Runner	✓	✓	✓
SQLJ syntax highlighting			✓
External build task wizard to create external tasks that allow execution of external shell or console commands as part of the build process		✓	1
Filter selected packages from build process; includes a filter overview folder to view filtering rules		1	1



Accept build targets as arguments with the external command line build A A A A A A A A A A A A A A A A A A A		PERSONAL	DEVELOPER	ENTERPRISE
Sample to illustrate the new build system: using RetroGuard to obfuscate jars Package Java applications as native executables Package Java applications for managing multiple executables Package Java applications for managing multiple executables per project Package Java applications for managing multiple executables per project Package Java applications for managing multiple executables per project Package Java (Java) Package Java applications for managing multiple executables per project Package Java (Java) Package Ja	Out-of-the-box build process to create native launchers		✓	✓
Package Java applications as native executables Runtime configurations for managing multiple executables per project V Runtime configurations for managing multiple executables per project V Disk switching for developing to different Java JDK versions and Java 2 SDK Jase Java compiler for rapid compiles Package Java and J2EE") Parast Java compiler for rapid compiles V Command line compiler, dependency checker, and build Compile option to strip debug information (source, line, and member) to reduce Jases file size Suilt-in local obfuscator to protect Java source code V UNL Code visualization MIL Cass and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Anheritance Diagram, Reverse Class Dependency Diagram, and the Class Altitude of the compiler of the com	Accept build targets as arguments with the external command line build	✓	✓	✓
Runtime configurations for managing multiple executables per project JOK switching for developing to different Java JDK versions and Java 2 SDK JOK switching for developing to different Java JDK versions and Java 2 SDK JOK switching for developing to different Java JDK versions and Java 2 SDK JOK switching for developing to different Java JDK versions and Java 2 SDK JOK switching for developing to different Java JDK versions and Java 2 SDK JOK STATE JOK ST	Sample to illustrate the new build system: using RetroGuard to obfuscate jars	✓	✓	✓
IDK switching for developing to different Java JDK versions and Java 2 SDK diditions (J2ME," J2SE," and J2EE") Fast Java compiler for rapid compiles J J J J J J J J J J J J J J J J J J J	Package Java applications as native executables		✓	✓
seltitons (J2ME," J2SE," and J2EE") Tast Java compiler for rapid compiles V V Command line compiler, dependency checker, and build V Compile option to strip debug information (source, line, and member) to reduce lass file size Built-in local obfuscator to protect Java source code V UML code visualization JML dass and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Association Diagram, and the Class Their multiple classes including inner classes and anonymous classes via tabbed ser interface Full browser-based navigation functionality to navigate diagrams and change Cust on ew classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Association Diagram presentation Areast access to refactoring functions directly from diagrams: rename, move, find definition Jimited package dependency diagram Areast access to refactoring functions directly from diagrams: rename, move, find definition Jimited package dependency diagram Areast access to refactoring functions directly from diagrams: rename, move, find definition Jimited package dependency diagram Areast access to refactoring functions directly from diagrams: rename, move, find definition Areast access to refactoring functions directly from diagrams: rename, move, find definition Areast access to refactoring from structure pane Areast access to refactoring from structure	Runtime configurations for managing multiple executables per project		✓	✓
Compile option to strip debug information (source, line, and member) to reduce Jass file size Suilt-in local obfuscator to protect Java source code JULIA Code visualization JULIA Code visualizatio	JDK switching for developing to different Java JDK versions and Java 2 SDK editions (J2ME, [™] J2SE, [™] and J2EE [™])	✓	✓	✓
Compile option to strip debug information (source, line, and member) to reduce Jass file size Built-in local obfuscator to protect Java source code JUML Code visualization JUML class and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Inheritance Diagram Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes packages from diagrams for a project Jiew multiple classes and packages Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes and packages Jiew multiple classes including inner classes and anonymous classes via tabbed Jiew multiple classes Jiew Jiew Jiew Jiew Jiew Jiew Jiew Jiew	Fast Java compiler for rapid compiles	✓	✓	✓
Basis file size Built-in local obfuscator to protect Java source code ✓ ✓ ✓ WIML™ code visualization JIML™ class and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Dependency Diagram Reverse Class Dependency Diagram, and the Class Object of the Class of th	Command line compiler, dependency checker, and build		✓	✓
UML Code visualization UML Code visualization UML Codes and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Inheritance Diagram View multiple classes including inner classes and anonymous classes via tabbed User interface Full browser-based navigation functionality to navigate diagrams and change cous to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Firucture pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation ✓ Fast access to refactoring functions directly from diagrams: rename, move, find deference, find definition Joint diagram, or save diagram as an image ✓ Print diagram, or save diagram to source code and documentation ✓ Refactoring nvoke refactoring from structure pane ✓ At a structure anethod: convert a code selection to a method ✓ Introduce a variable: select a complex expression and convert to a variable ✓ Introduce a variable: select a complex expression and convert to a variable	Compile option to strip debug information (source, line, and member) to reduce class file size		✓	1
JML™ class and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Inheritance Diagram //iew multiple classes including inner classes and anonymous classes via tabbed Jeser interface Full browser-based navigation functionality to navigate diagrams and change ocus to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Fittructure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane ✓ ✓ ✓ ✓ Introduce a variable: select a complex expression and convert to a variable ✓ ✓ ✓ Introduce a variable: select a complex expression and convert to a variable	Built-in local obfuscator to protect Java source code		✓	✓
JML™ class and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Inheritance Diagram //iew multiple classes including inner classes and anonymous classes via tabbed Jeser interface Full browser-based navigation functionality to navigate diagrams and change ocus to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Fittructure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane ✓ ✓ ✓ ✓ Introduce a variable: select a complex expression and convert to a variable ✓ ✓ ✓ Introduce a variable: select a complex expression and convert to a variable				
Association Diagram, Reverse Class Association Diagram, Limited Class Dependency Diagram, Reverse Class Dependency Diagram, and the Class Inheritance Diagram View multiple classes including inner classes and anonymous classes via tabbed ser interface Full browser-based navigation functionality to navigate diagrams and change ocus to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane V A V Introduce a variable: select a complex expression and convert to a variable V Introduce a variable: select a complex expression and convert to a variable V Introduce a variable: select a complex expression and convert to a variable	UML [™] code visualization			
nheritance Diagram View multiple classes including inner classes and anonymous classes via tabbed user interface Full browser-based navigation functionality to navigate diagrams and change ocus to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane A A A A A A A A A A A A A A A A A A A	UML [™] class and package diagram representation of code: Limited Class Association Diagram, Reverse Class Association Diagram, Limited Class			✓
View multiple classes including inner classes and anonymous classes via tabbed Jeser interface Full browser-based navigation functionality to navigate diagrams and change ocus to new classes and packages Filter to exclude chosen classes packages from diagrams for a project Choose to include libraries on a project basis to view dependencies in diagrams Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Initiated package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane Fast access to refactoring from structure pane A A A A A A A A A A A A A A A A A A A				
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Choose to include libraries on a project basis to view dependencies in diagrams Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find reference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane A CEXTRACT a method: convert a code selection to a method A VI A CEXTRACT a method: select a complex expression and convert to a variable A VI A V	Full browser-based navigation functionality to navigate diagrams and change focus to new classes and packages			✓
Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find eference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane Extract a method: convert a code selection to a method Introduce a variable: select a complex expression and convert to a variable V Introduce a variable: select a complex expression and convert to a variable	Filter to exclude chosen classes packages from diagrams for a project			✓
Customize fonts and colors in diagram presentation Fast access to refactoring functions directly from diagrams: rename, move, find reference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane A A A A A A A A A A A A A A A A A A A	Choose to include libraries on a project basis to view dependencies in diagrams			√
Fast access to refactoring functions directly from diagrams: rename, move, find reference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane Extract a method: convert a code selection to a method Introduce a variable: select a complex expression and convert to a variable Introduce a variable: select a complex expression and convert to a variable	Structure pane tree view of package or class with expandable folders; navigate to diagrams from tree view			✓
reference, find definition Limited package dependency diagram Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane Invoke refactoring from structure pane Introduce a variable: select a complex expression and convert to a variable Introduce a variable: select a complex expression and convert to a variable	Customize fonts and colors in diagram presentation			✓
Print diagram, or save diagram as an image Quick navigation from diagram to source code and documentation Refactoring Invoke refactoring from structure pane Introduce a variable: select a complex expression and convert to a variable V	Fast access to refactoring functions directly from diagrams: rename, move, find reference, find definition			✓
Refactoring nvoke refactoring from structure pane Extract a method: convert a code selection to a method **Total Convert a code selection and convert to a variable select a complex expression and convert expression and	Limited package dependency diagram			√
Refactoring nvoke refactoring from structure pane \$\forall \forall \	Print diagram, or save diagram as an image			√
nvoke refactoring from structure pane ✓ Extract a method: convert a code selection to a method ✓ Introduce a variable: select a complex expression and convert to a variable ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Quick navigation from diagram to source code and documentation			✓
nvoke refactoring from structure pane ✓ Extract a method: convert a code selection to a method ✓ Introduce a variable: select a complex expression and convert to a variable ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Refactoring			
Extract a method: convert a code selection to a method Introduce a variable: select a complex expression and convert to a variable Introduce a variable: select a complex expression and convert to a variable	Invoke refactoring from structure pane	✓	1	✓
ntroduce a variable: select a complex expression and convert to a variable	Extract a method: convert a code selection to a method	✓	1	✓
Change a methods signature: add, remove, or re-order parameters	Introduce a variable: select a complex expression and convert to a variable	-	✓	√
	Change a methods signature: add, remove, or re-order parameters	✓	√	√



	PERSONAL	DEVELOPER	ENTERPRISE
Surround with try/catch: surround a code selection with try/catch and automatically add specific catch blocks for all detected and selected exceptions	✓	✓	✓
Rename packages and update all references	✓	✓	✓
Rename classes and update all references	✓	✓	✓
Rename methods and update all references	✓	✓	✓
Rename fields, method arguments, and local variables; and update all references	✓	✓	✓
Move classes and update all references	✓	✓	✓
Search and find all references	✓	✓	✓
Find definitions for a symbol	✓	✓	✓
Validate new names based on context	✓	✓	✓
Refactoring cancel, undo, redo	✓	✓	✓
Check for limitations prior to refactoring	✓	1	✓
Invoke refactoring from code editor	✓	✓	✓
Invoke refactoring from UML diagrams			✓

Unit testing			
Cactus support			✓
EJB test client based on Cactus			✓
EJB test client based on JUnit			✓
Unit test collector runner for automatic unit test collection, test suite generation, and running			1
Borland Optimizeit [™] Code Coverage integration with unit test runner (Optimizeit is included only in JBuilder Enterprise)	✓	✓	1
Test stack trace filter to exclude classes from traces	✓	✓	✓
Tight integration of JUnit	✓	✓	✓
Built-in test runner	✓	✓	✓
Quick navigation to unit test failures in your source code	✓	✓	✓
Automatic test discovery to identify test cases or test suites			✓
Test case wizard to create test case class skeletons	✓	✓	✓
Test case fixture support		✓	✓
Fixture wizard for JNDI			✓
Fixture wizard for JDBC®			✓
Comparison fixture wizard			1
Custom fixture wizard			1
Test configuration support			✓
Test case wizard to create logical groupings of unit tests			✓



	PERSONAL	DEVELOPER	ENTERPRISE
Debugging of test classes	✓	✓	✓
Right click on methods to debug individual methods without debugging entire unit test class	√	✓	✓
Javadoc tools			
Javadoc wizard to generate documentation node in project. Select which packages are documented and format of output		✓	1
Automate Javadoc generation as part of the build process		✓	✓
Interactive Javadoc syntax checker	✓	✓	✓
Doclet support to govern output format: includes standard JDK 1.3 doclet, JDK 1.4 doclet, and JDK 1.1 doclet		1	1
Advanced state-of-the-art Borland AppBrowser [™] IDE			
Dockable message/output panes with enhanced functionality	✓	✓	✓
Drag and drop file open	✓	√	✓
New! Drag and drop enabled project pane	✓	✓	✓
New! Right-click in project pane to add classes, interfaces, packages, JavaServer Pages [™] (JSP [™]) or any files	1	1	1
Better user interface with consistent behavior and navigation	✓	1	✓
AppBrowser for integrated management of projects, classes, and source	✓	✓	✓
Project-level class filter configuration	✓	✓	✓
Directory view project node with project-aware file support		✓	✓
Java 2 visual designers for drag-and-drop JFC/Swing application development, without proprietary markers or code	✓	1	✓
Support for layout managers, Swing components, Swing borders	✓	✓	✓
Integrated HTML and Javadoc viewer	✓	✓	✓
Integrated UML browser for code visualization			✓
Java help system with full BOOLEAN text search for easier access to documentation	✓	✓	1
Built-in API browser for class file methods and data members	✓	✓	✓
StructureInsight [™] for rapid file navigation through source files	✓	✓	✓
Message view toggler to turn message view on or off	✓	✓	✓
Enhanced status bar	✓	✓	✓
Single-click message or editor tab closing	✓	✓	✓
Add favorites to open file dialog	✓	✓	✓
Integrated Javadoc syntax checker provides interactive feedback for creating compliant Javadoc entries	✓	✓	1



	PERSONAL	DEVELOPER	ENTERPRISE
Javadoc browser dynamically generates Javadoc from Javadoc embedded in source code	✓	✓	✓
HTML4, XML, and CSS2 cascading style-sheet layout viewer		✓	✓
Documentation Type Definition (DTD) support and extensible dynamic tags handling		1	1
Documentation print capability inside the AppBrowser		✓	✓
Customizable support for print to printer or to HTML file for creating superior project documentation		1	✓
Project folders and resource management for increased productivity		✓	✓
Package view for displaying source packages in project view with customizable package nesting levels	1	✓	1
Easier import of existing Java source packages	1	1	1
Ann Drawer and Add Action to the American			
AppBrowser [™] editor features Line numbering	✓	√	1
Text drag and drop editing	√	√	1
Access refactoring, find definitions, and find references from within the editor		✓	√
Advanced search-and-replace options with pattern matching	√	✓	✓
Search combo box now available from the toolbar	✓	√	✓
Global Search and Replace on all files in path	✓	✓	✓
Emacs [™] -style single-line indenting and automatic code formatting	✓	✓	✓
Use regular expressions in search expressions	✓	✓	✓
Highlighted brace matching	✓	✓	✓
Syntax highlighting for multiple file types, including Java, HTML, and C/C++	✓	✓	✓
Advanced syntax highlighting for XML, WML, IDL, JSP, and XSL, CSS style sheets		1	1
Customizable smart keys with auto-indent option	✓	✓	✓
CUA [®] editor keymap	✓	✓	✓
Emacs editor keymap	✓	✓	✓
Microsoft® Visual Studio® keymap	✓	✓	✓
Brief® editor keymap	✓	✓	✓
Macintosh [®] keymap	✓	✓	✓
CodeWarrior® for Mac® keymap	✓	✓	✓
Visual Keymap editor for customizing environment actions and key strokes definitions	1	1	1
Quick access keymap dropdown to toggle keymap	✓	✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Code templates			
New! Configurable Smart Code templates to automate common coding tasks	✓	✓	√
New! Macros in templates	✓	✓	√
New! Sync Edit to simultaneously edit multiple identical identifiers in a block of code	✓	✓	√
New! File awareness in templates	✓	✓	✓
New! Open Tools API to enable additional file type template categories	✓	✓	✓
New! Class-aware templates integrated with automatic insertion of import statement	✓	✓	✓
New! Surround block templates to surround selection with template code	1	1	1
Code formatting			
Smart automatic code formatting	✓	✓	√
Set indenting	✓	✓	✓
Format tab size	✓	✓	√
Set end-of-line characters	✓	✓	√
Select multiline characters	✓	✓	✓
Format continuation indent	✓	✓	✓
Format braces	✓	✓	✓
Set spaces	✓	✓	✓
Select blank lines	✓	✓	✓
Format event handling	✓	✓	✓
Format import statements	✓	✓	✓
Preview before setting preferences	✓	✓	✓
Access quick format via keyboard, or menu from editor	✓	✓	✓
Import/export code formatting settings	✓	✓	✓
SmartDiff [™] across different code formats	✓	✓	✓
Section 508 accessibility			
Access JBuilder functionality through keyboard	✓	✓	√
Swing accessibility framework usage	✓	✓	√
Integrate OS system font size as selected	✓	✓	✓
All color coding complemented by non-color based functions	✓	✓	✓
Navigation across panes and tabs available from keyboard	✓	✓	✓
High-contrast color scheme	✓	✓	✓
Editor text zoom	✓	✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Message severity status with multiple communications schemes (color, icon, sound, and symbol)	✓	✓	✓
Browser splitter access via keyboard	✓	✓	✓
BeansExpress [™] for rapidly creating Java components			
More than JavaBeans included	200+	300+	300+
BeansExpress [™] to rapidly create reusable JavaBeans		✓	✓
Creation of property getter/setter methods from existing members		✓	✓
Synchronized scrolling between BeansExpress and implementation code		✓	✓
Source code for JavaBeans			✓
Visual bean designers to easily create properties, events, and BeanInfo		✓	✓
BeanInsight [™] to create and manipulate JavaBeans properties and validate JavaBeans		✓	✓
Iterative design of entity beans for EJB			1
CodeInsight [™]			
CodeInsight [™] to speed coding and reduce syntax errors	✓	✓	✓
Code Completion automatically displays package, members, methods, and events for Java classes and JavaBeans	✓	1	1
CodeInsight automatic import statement completion and optimization	1	1	✓
New! ToolTips for correcting missing imports	✓	✓	✓
CodeInsight package content review	✓	✓	✓
Code Parameter ToolTips automatically display procedure, method, and event parameter lists	1	1	✓
Customizable CodeInsight for key-binding and appearance	✓	✓	✓
Visual indication of public, protected, private, and deprecated members	✓	✓	✓
Package completion wizard to help ensure proper syntax	✓	✓	✓
Package Browser to list classes by package	✓	✓	✓

ErrorInsight [™]			
$ErrorInsight^{^{TM}} \ to \ automatically \ display \ common \ coding \ errors$	✓	✓	✓
Red underlining of syntax errors	✓	✓	✓
New! Add method wizard when error fix requires creation of new method	✓	✓	✓
New! Add throw cause and surround with try/catch to fix uncaught exceptions	✓	✓	✓
New! Error prompt to fix "type not found" errors	✓	✓	✓
New! Error prompt to fix "methods not found" errors	✓	✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
New! Error prompt to fix "constructor not found" error	✓	✓	✓
New! Error prompt to fix "variable not found" errors	✓	✓	✓
New! Error prompt to fix class name or filename errors	✓	✓	✓
New! Error prompt to fix packages or directories	✓	✓	✓
New! Error prompt to fix type mismatches	✓	✓	✓
New! Error prompt to fix class declarations	✓	✓	✓
New! Fix missing import packages error	✓	✓	✓
New! Error prompt to fix missing import classes errors	✓	1	1
Javadoc Insight [™]			
New! Javadoc Insight to speed coding of Javadoc tags and reduce syntax errors	✓	✓	✓
New! Add custom Javadoc tags to Javadoc Insight		✓	✓
New! Color highlighting of Javadoc syntax	✓	✓	✓
Wizards			
More consistent behavior and navigation across all wizards	✓	✓	✓
Javadoc wizard adds Javadoc nodes to projects and automatically creates Javadoc formatted according to doclets		✓	✓
Wizards to generate unit tests	✓	✓	✓
Project wizard for conveniently and effectively starting new projects	✓	✓	✓
Project Import wizard to import existing code projects		✓	✓
Applet wizard for quickly defining and creating Java applets	✓	✓	✓
Application wizard for rapidly creating GUI applications in Java	✓	✓	✓
Class wizard to simplify the creation and definition of classes; package, base class, and class options	1	✓	1
Web Start wizard creates Java Network Launching Protocol (JNLP) and generates home page with Java plug-in detection		1	1
JavaBean wizard to radically simplify coding and speed implementation of JavaBeans		1	1
Dialog, frame, and panel wizards with flexibility for Swing, AWT, or custom base classes to speed up the creation of Java graphical user interfaces	1	1	1
Implement interface wizard to assist in implementing Java interfaces	✓	✓	✓
Method wizard for implementing override or abstract methods	✓	✓	✓
Resource string wizard for easier creation of resource bundles		✓	1
Data module wizard to simplify data access development using data modules		✓	✓
Servlet wizard for creating HTML, XHTML, XML, and WML Java servlets based on Servlet 2.2 or 2.3		✓	1



JSP wizard for rapidly creating JSP (JavaServer Pages) Web applications based on JSP 1.1 or 1.2. CORBA® interface wizard with sample interface definition to simplify the creation of JSP 1.1 or 1.2. CORBA® rever interface wizard for quickly defining and creating CORBA interface beans HTML CORBA client application wizard to rapidly create a JSP or HTML client from an IDL file CORBA server application wizard to rapidly create a CORBA server application from an IDL file CORBA server application wizard to rapidly create a CORBA server application from an IDL file EJB interface wizard to simplify development of EJBs JSB deployment wizard to rapidly deploy to application servers JSB group wizard to create EJB groups for importing existing/creating new EJB JSB group wizard to create beans based on available EJB groups Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Convenient visual editing of individual property files JSB group with Archive Builder® Archive Builder® to quickly build deployable archive types for applets, applications, JavaBeans, and Open-Tools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable JAvaBeans, and Open-Tools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable JAvaBeans, and Open-Tools New! Fully manage archive content using either inclusion or exclusion logic JAVA CORDA STANDA AND AND AND AND AND AND AND AND AND		PERSONAL	DEVELOPER	ENTERPRISE
of IDL files CORBA server interface wizard for quickly defining and creating CORBA interface beans HTML CORBA client application wizard to rapidly create a JSP or HTML client from an IDL file CORBA server application wizard to rapidly create a CORBA server application from an IDL file EJB interface wizard to simplify development of EJBs EJB deployment wizard to rapidly deploy to application servers EJB group wizard to create EJB groups for importing existing/creating new EJB EJB test client wizard to create EJB groups for importing existing/creating new EJB EJB test client wizard to create beans based on available EJB groups EJB test client wizard for eliminating hard-coded strings and easier creation of resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Convenient visual editing for multiple language versions of resource bundles Convenient visual editing for multiple language versions of resource bundles Convenient with Archive Builder* Archive Builder* to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools Newl Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP* (JAR and ZIP) format support Archive support and application packaging support Archive support and application packaging support Auto-archive to update archive files at build time			✓	✓
beans HTML CORBA client application wizard to rapidly create a JSP or HTML client from an IDL file CORBA server application wizard to rapidly create a CORBA server application from an IDL file EJB interface wizard to simplify development of EJBs JEJB deployment wizard to rapidly deploy to application servers JEJB group wizard to create EJB groups for importing existing/creating new EJB descriptors EJB test client wizard to create beans based on available EJB groups Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Jimultaneous editing for multiple language versions of support for language translations within the visual designer Deployment with Archive Builder* Archive Builder* to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP* (JAR and ZIP) format support V Web start applet and application packaging support V Adding multiple classes or entire packages to deployment archive V Greating manifest information automatically or manually V Creating manifest information automatically or manually				✓
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from an IDL file EJB interface wizard to simplify development of EJBs JEJB deployment wizard to rapidly deploy to application servers JEJB group wizard to create EJB groups for importing existing/creating new EJB descriptors EJB test client wizard to create beans based on available EJB groups JEJB test client wizard to create beans based on available EJB groups JEJB test client wizard to create beans based on available EJB groups JEJB test client wizard to create beans based on available EJB groups JEJB test client wizard for eliminating hard-coded strings and easier creation of sesource bundles Convenient visual editing of individual property files JEJB test client wizard for eliminating hard-coded strings and easier creation of sesource bundles JEJB test client wizard for eliminating hard-coded strings and easier creation of sesource bundles JEJB test client wizard for eliminating hard-coded strings and easier creation of sesource bundles JEJB test client wizard for eliminating hard-coded strings and easier creation of sesource bundles JEJB test client wizard to create beans based on available EJB groups JEJB test client wizard to create beans based on available EJB groups JEJB test client wizard to create EJB test groups JEJB test client wizard to create EJB groups JEJB test client EJB test groups JEJB				1
EJB deployment wizard to rapidly deploy to application servers Jesus group wizard to create EJB groups for importing existing/creating new EJB descriptors EJB test client wizard to create beans based on available EJB groups Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer Deployment with Archive Builder Archive Builder to quickly build deployable archive types for applets, applications, Archive Builder to quickly build deployable archive types for applets, applications, Archive support for native executable Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Web start applet and application packaging support Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Creating manifest information automatically or manually A creating manifest information automatically or manually				✓
EJB group wizard to create EJB groups for importing existing/creating new EJB descriptors EJB test client wizard to create beans based on available EJB groups Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer Deployment with Archive Builder Archive Builder To quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Web start applet and application packaging support Adding multiple classes or entire packages to deployment archive Vand and percent and percent percent percent archive to update archive files at build time Vand Auto-archive to update archive files at build time Creating manifest information automatically or manually Variations	EJB interface wizard to simplify development of EJBs			✓
EJB test client wizard to create beans based on available EJB groups Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer ✓ Deployment with Archive Builder Archive Builder To quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Java archive and PkZIP® (JAR and ZIP) format support Java archive and PkZIP® (JAR and ZIP) format support Joption to exclude dependencies from archives Jeployment of user-defined file types Jeployment of user-defined file	EJB deployment wizard to rapidly deploy to application servers			1
Language translation support Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files ✓ ✓ Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer ✓ ✓ Deployment with Archive Builder™ Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic ✓ ✓ Archive support for native executable ✓ ✓ Java archive and PkZIP® (JAR and ZIP) format support ✓ ✓ Option to exclude dependencies from archives ✓ ✓ Web start applet and application packaging support ✓ ✓ Adding multiple classes or entire packages to deployment archive ✓ ✓ Auto-archive to update archive files at build time ✓ ✓ Smart dependency checking for class and resource dependencies ✓ ✓ Creating manifest information automatically or manually ✓ ✓ ✓ Creating manifest information automatically or manually				✓
Resource string wizard for eliminating hard-coded strings and easier creation of resource bundles Convenient visual editing of individual property files Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer Deployment with Archive Builder™ Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic ✓ Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support ✓ Option to exclude dependencies from archives ✓ Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive ✓ Auto-archive to update archive files at build time ✓ Smart dependency checking for class and resource dependencies ✓ Creating manifest information automatically or manually	EJB test client wizard to create beans based on available EJB groups			✓
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Simultaneous editing for multiple language versions of resource bundles Support for language translations within the visual designer Deployment with Archive Builder™ Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually			,	
Support for language translations within the visual designer Deployment with Archive Builder™ Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Veb start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Venant dependency checking for class and resource dependencies ✓ Creating manifest information automatically or manually	Convenient visual editing of individual property files		✓	✓
Deployment with Archive Builder™ Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools ✓ ✓ ✓ New! Fully manage archive content using either inclusion or exclusion logic ✓ ✓ ✓ Archive support for native executable ✓ ✓ ✓ Java archive and PkZIP® (JAR and ZIP) format support ✓ ✓ ✓ Option to exclude dependencies from archives ✓ ✓ ✓ Web start applet and application packaging support ✓ ✓ ✓ Deployment of user-defined file types ✓ ✓ ✓ Adding multiple classes or entire packages to deployment archive ✓ ✓ ✓ Auto-archive to update archive files at build time ✓ ✓ ✓ Smart dependency checking for class and resource dependencies ✓ ✓ ✓ Creating manifest information automatically or manually ✓ ✓ ✓			✓	✓
Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	Support for language translations within the visual designer		✓	✓
Archive Builder™ to quickly build deployable archive types for applets, applications, JavaBeans, and OpenTools New! Fully manage archive content using either inclusion or exclusion logic Archive support for native executable Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	Deployment with Archive Builder™			
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Java archive and PkZIP® (JAR and ZIP) format support Option to exclude dependencies from archives V Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	New! Fully manage archive content using either inclusion or exclusion logic	✓	✓	1
Option to exclude dependencies from archives V Web start applet and application packaging support V Deployment of user-defined file types V Adding multiple classes or entire packages to deployment archive V Auto-archive to update archive files at build time V Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually V V V V V V V V V V V V V V V V V V	Archive support for native executable		✓	✓
Web start applet and application packaging support Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	Java archive and PkZIP® (JAR and ZIP) format support	✓	✓	✓
Deployment of user-defined file types Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	Option to exclude dependencies from archives	✓	✓	1
Adding multiple classes or entire packages to deployment archive Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually	Web start applet and application packaging support		✓	1
Auto-archive to update archive files at build time Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually ✓ ✓ ✓	Deployment of user-defined file types	✓	✓	1
Smart dependency checking for class and resource dependencies Creating manifest information automatically or manually ✓ ✓ ✓	Adding multiple classes or entire packages to deployment archive	✓	✓	1
Creating manifest information automatically or manually	Auto-archive to update archive files at build time	✓		√
	Smart dependency checking for class and resource dependencies		✓	✓
Archive source and documentation	Creating manifest information automatically or manually	✓	✓	✓
	Archive source and documentation	✓	√	√



	PERSONAL	DEVELOPER	ENTERPRISE
J2EE application client packaging		✓	✓
Resource adapters archive (RAR) support for packaging JZEE EIS connectors		✓	✓
Enterprise Archive (EAR) support for packaging an entire set of components of an application; includes support for J2EE 1.2 and 1.3		✓	✓
Sample applications			
Generic sample applications	✓	✓	✓
OpenTools sample applications showing diff-view and keymap definitions mplementation	✓	1	✓
Multilingual online shopping sample application with source code	✓	✓	✓
Extensible version control system OpenTools sample with integrated Concurrent Versions System (CVS) functionality with support for update, merge, add, and check-in/out		1	1
OpenTools sample applications for adding custom wizards, viewers, and many more	1	1	✓
XML tutorial showing examples of validation, databinding, XSL, database mport/output, and more			✓
Online store real-life sample program with credit card approval, order entry, and order tracker functionality			✓
Shopping cart example using JSP		✓	✓
Credit card approval client using CORBA/RMI			✓
Bookstore sample application to demonstrate InternetBeans [™] Express with DataExpress [™] for EJB and more			✓
JBuilder [®] installation support			
Product uninstall	✓	✓	✓
Dynamic product license registration	√	✓	√
Product install from server	✓	✓	✓
Generic product installation for unsupported platforms			✓
CVS client installation	1	✓	1
Debugging			
Graphical debugger for bringing complex applications to mar	ket faster		
Debugger with breakpoints, stepping, and watches for detecting bugs fast	✓	√	✓
Debugging of Java 2 applications based on the industry-standard Java Platform Debugger Architecture (JPDA)	✓	✓	1



Local variables view for all stack-frames for all threads

Runtime evaluation for class members including variables and constants

	PERSONAL	DEVELOPER	ENTERPRISE
Advanced debugger features, including conditional breakpoints, breakpoint ogging, evaluator, step out, and run to end of method		✓	✓
Debugging in multiple Java 2 SDK versions and editions	✓	✓	✓
Advanced runtime evaluation and dynamic invocation of methods		✓	✓
Evaluator variable inline assignment		✓	✓
Debug configurations for managing multiple debug sessions per project		✓	✓
Simultaneous display of thread and stack-frame context		✓	✓
Floating debug windows to view multiple debug views simultaneously		1	1
Advanced smart debugging			
Set Execution Point function to move execution point while debugging (JDK 1.4 HotSwap support)		✓	•
Smart Swap to swap out classes while debugging (JDK 1.4 HotSwap support)		✓	✓
Add non-Java program language source line breakpoint (JSR 45 support)		✓	✓
Set source view to toggle between non-Java code and generated Java source while debugging		✓	✓
Simultaneous multiprocess debugging to simplify development of partitioned applications	1	1	1
Debugging of JDK with Java 2 JPDA debug API support		✓	✓
ine, class, method, and exception breakpoints to narrow down bugs more efficiently		1	1
SmartStep for configuring debug stepping (step into, over, out) behavior in class source	1	1	1
FoolTip Evaluation for on-the-spot display of member instances		✓	1
ExpressionInsight [™] with detailed structure view of member instances		✓	1
Breakpoint actions for programmable control on break events		✓	✓
Breakpoint expressions for getting an automated view on developer logging information		1	✓
Sourceless debugging for stepping into classes without associated source code		✓	1
exception source trace to find source location of exception incident		✓	✓
Servlet debugging, breakpoints, evaluators, watches, etc.		✓	✓
ISP source code debugging with Java debugging support		✓	✓
hread deadlock, stalls, and race conditions detection on precise error location		✓	✓
Keep thread suspended option for tracking thread race conditions		✓	✓
Cross-process breakpoints to control stepping behavior for debugging server code		✓	✓
Attach to and debug running process		✓	✓
Multiplatform and remote debugging for debugging complex distributed applications on a variety of platforms		✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
XML for Java [™] development			
Generic XML support			
Project support for XML file types: XSD, XSP, DTD, XSL, MAP (XML-DBMS), WML, XHTML	1	1	✓
Browser-based XML viewer		✓	✓
Tree view for XML in browser view		1	1
XML environment			
Java API for XML Processing (JAXP) and DOM integrated library integration		✓	✓
Xerces 2.02 (XML) and Xalan 2.2 (XSLT) integration		✓	✓
Validation with error tracing		✓	✓
Transformation with source and browser view of both XML and HTML output		✓	✓
Transform trace for selection, generation, and template creation		✓	✓
Cocoon publishing engine integration for creating XML Web applications			✓
XML-based Web application projects with Cocoon runtime integration			✓
JavaBeans [®] binding and persistence			
Generate XML instance from DTD		✓	✓
Generate DTD from XML		✓	✓
Generate Java classes from DTD		✓	✓
Generate Java classes from schema		✓	✓
Open architecture for third-party, data-binding solutions		✓	✓
Advanced XML support			
SAX parser generator wizard, now based on JAXP			✓
XML ModelTableBean and XML ModelSQLBean to import/export DTD/XML data from or to relational databases			✓
XML TemplateTableBean and XML TemplateSQLBean to transform automatically generated XSL style sheets from XML to HTML			✓
XML mapping generation from RDBMS			✓
XML SQL generation from RDBMS			√
XML SQLBean and XML TemplateSQLBean to generate XML packets complying to Borland XML DTD on declarative SQL templates			✓



	PERSONAL	DEVELOPER	ENTERPRISE
Mobile development			
New! Develop Java applications based on Sun [®] J2ME [™]			
Class/Package Browser		✓	✓
Mobile JDK switching		✓	✓
Supports MIDP 1.0 profile		✓	✓
MIDP project wizard		✓	✓
MIDlet wizard		✓	✓
Two-way visual designer for rapid application development		✓	✓
Designer support for MIDP UI elements		✓	✓
Sun J2ME Wireless Toolkit 1.0.4 included		✓	✓
Support for Nokia Developer's Suite for J2ME		1	1
Support for Siemens Mobility Toolkit (SMTK) for Java [™] Development		1	✓
Support for Sprint PCS Wireless Toolkit		✓	✓
New! Support for Sony Ericsson J2ME SDK		✓	✓
CodeInsight for CLDC/MIDP classes		✓	✓
Debug in micro-device emulator		✓	✓
Debug on actual micro device (if enabled in device JDK)		✓	✓
Archive builder to automatically create JAR, manifest and JAD files		✓	✓
Option to automatically obfuscate source code as part of archive process. RetroGuard v1.1 included or configure to use obfuscator of your choice		✓	1
Screen manager to easily design complex, multi-screen applications		✓	✓
mplementation of Unified Emulator Interface (UMI) for easier integration with hird-party emulators		1	✓
Over The Air (OTA) Provisioning to upload MIDIet suites to FTP server without eaving JBuilder, download and test in emulator, or run directly from remote server		1	1
Team development			
Supported version control systems			
New! Borland StarTeam [®] support		✓	✓
CVS support	✓	✓	✓
Rational [®] ClearCase [®] version 4.1 support			✓
Microsoft® Visual SourceSafe® support1		✓	✓
Integrated team development		_	
SmartDiff for differences (diffs) between files independent of formatting changes		✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Revision browser for displaying history information of source versions	✓	✓	✓
Revision information on revision type, time stamp, author, and label	✓	✓	✓
Revert to previous source revisions	✓	✓	1
Visual source-level display of diffs in distinct source revisions	✓	✓	1
Diffs between different types of source revisions, including file buffers and local and backup files	1	1	✓
Revision browser for viewing source versions	✓	✓	✓
To-do list manager and to-do source comment tags	✓	✓	✓
Conflict resolution for reconciling source versions between workspace and repository now applies to all file types	1	1	✓
Conflict navigation in source editor	✓	✓	
Check out from branch	✓	✓	1
Status browser to show what files have pending changes	✓	✓	
Commit browser to show and commit files to VCS	✓	✓	1
Set version label: per file, per branch, per project	✓	✓	1
Synchronized scrolling between source and history pane	✓	✓	1
Difference view of arbitrary files	✓	✓	1
New! Refactoring aware RenameNotifier to create a rename action to be displayed in the Commit Browser of version management systems that support the renaming function	1	1	✓
New! Prompt to checkout files needed to complete a refactoring	✓	✓	✓
Version control management			
Version control console	✓	✓	✓
Version control configuration to select server location, repository location, branch, and version selection	✓	✓	1
Version control OpenTools API to tightly integrate third-party version control systems	1	1	✓
New! Commit browser framework now supports action changes on multiple files at the same time	1	1	✓
Library and SDK definitions			
Configuration definition categories for the granular differentiation between user, team, and environment settings	✓	✓	1
JDK definitions for project, user, or environment level	✓	✓	✓
Class, source, documentation and required library settings per library definition	1	✓	✓
Share library definitions of JDK locations among team members	✓	1	✓



Local rifle versioning Local or network file versions Configurable history of source files on file system V V Configurable history of source files on file system V V Configurable history of source files on file system V V NewI Lightweight administration and branching support, including the ability to create, switch, and merge branches NewI Special update support based on revisions V V CVS Sepecial update support based on revisions V V CVS commit browser to resolve conflicts V V CVS support for status browser V V Support for status browser V V Support for commit browser V VS server add-on to list projects and branches V CVS server add-on to list projects and branches V CVS server add-on to list projects and branches V CVS server add-on to list projects and branches V CVS server add-on to list projects and branches V CVS server add-on to list projects and branches V V V NewI Browse repository using the Pserver protocol V NewI Browse repository using the Pserver protocol V NewI Browse repository using the Pserver protocol V Reconciling local files with repository: read-only reconcile and read-write reconcile V V CVS local and remote file system, remote CVS server, and remote shell Connections, now with port selection Direct protocol support for CVS ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase V ClearCase		PERSONAL	DEVELOPER	ENTERPRISE
Configurable history of source files on file system CVS-specific Create local CVS repository A	Local file versioning			
CVS-specific Create local CVS repository V V V V V V V V V V V V V		√	-	
Create local CVS repository New I Lightweight administration and branching support, including the ability to create, switch, and merge branches New I Special update support based on revisions New I Special update support based on revisions V	Configurable history of source files on file system	√	√	√
New! Lightweight administration and branching support, including the ability to create, switch, and merge branches New! Special update support based on revisions V V V New! Modify version labels V: V V New! Modify version labels V: V V CVS commit browser to resolve conflicts V: V V CVS support for status browser CVS support for commit browser V: V V CVS support for commit browser V: V V CVS file locking support with edit, undo edit, and watches V: V V CVS server add-on to list projects and branches V: V V CVS server add-on to list projects and branches V: V V Create project from CVS repository V: V V Revul Browse cVS modules in repository Reconciling local files with repository: read-only reconcile and read-write reconcile V: V V New! Browse repository: read-only reconcile and read-write reconcile V: V V CVS local and remote file system, remote CVS server, and remote shell V: V V CVS local and remote file system, remote CVS server, and remote shell V: V V ClearCase support for CVS ClearCase support for CVS V: V V ClearCase support for commit browser V: ClearCase support for commit browser V: ClearCase support for commit browser V: ClearCase support for ClearCase V: Create project from VOB V: Create project from VOB V: ClearCase support for ClearCase V: ClearCase su	CVS-specific			
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New! Modify version labels CVS commit browser to resolve conflicts CVS support for status browser CVS support for commit browser CVS support for commit browser CVS file locking support with edit, undo edit, and watches CVS file locking support with edit, undo edit, and watches CVS server add-on to list projects and branches CVS server add-on to list projects and branches Create project from CVS repository Browse CVS modules in repository Version of the support for commit browser for the support of th		✓	✓	✓
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CVS support for status browser	New! Modify version labels	✓	✓	✓
CVS support for commit browser CVS file locking support with edit, undo edit, and watches CVS file locking support with edit, undo edit, and watches CVS server add-on to list projects and branches Create project from CVS repository Browse CVS modules in repository Reconciling local files with repository: read-only reconcile and read-write reconcile Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell CVS local and remote file system, remote CVS server, and remote shell Connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for status browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB ClearCase snapshots support ClearCase snapshots support Unified Change Management (UCM) support Launch ClearCase Explorer® V A Apply label	CVS commit browser to resolve conflicts	✓	✓	✓
CVS file locking support with edit, undo edit, and watches V V V CVS server add-on to list projects and branches V V V Create project from CVS repository V Browse CVS modules in repository V Rew! Browse repository using the Pserver protocol V Reconciling local files with repository: read-only reconcile and read-write reconcile V CVS local and remote file system, remote CVS server, and remote shell V CVS local and remote file system, remote CVS server, and remote shell V CVS local support for CVS V Rational ClearCase support for status browser V ClearCase support for status browser V ClearCase support for commit browser V ClearCase support for commit browser V ClearCase support for ClearCase V Create project from VOB V Place project into VOB V ClearCase Explorer V Apply label V V A Apply label	CVS support for status browser	✓	✓	✓
CVS server add-on to list projects and branches Create project from CVS repository Prowse CVS modules in repository Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell CVS local and remote file system, remote CVS server, and remote shell CVS local and remote file system, remote CVS server, and remote shell CVS local support for CVS Retional ClearCase -specific View editor for selecting, creating, and modifying ClearCase views ClearCase support for status browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Vereate project from VOB ClearCase snapshots support ClearCase snapshots support Venified Change Management (UCM) support Launch ClearCase Explorer® Vanty Apply label	CVS support for commit browser	✓	1	✓
Create project from CVS repository Browse CVS modules in repository New! Browse repository using the Pserver protocol Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell CVS local and remote file system, remote CVS server, and remote shell J Connections, now with port selection Direct protocol support for CVS Rational ClearCase -specific View editor for selecting, creating, and modifying ClearCase views J ClearCase support for status browser J ClearCase support for commit browser J Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase J Create project from VOB J ClearCase snapshots support J ClearCase snapshots support J ClearCase Management (UCM) support J ClearCase Explorer J Apply label	CVS file locking support with edit, undo edit, and watches	✓	✓	✓
Browse CVS modules in repository New! Browse repository using the Pserver protocol Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for commit browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB ClearCase snapshots support ClearCase snapshots support ClearCase snapshots support ClearCase Explorer® Apply label	CVS server add-on to list projects and branches	✓	✓	✓
New! Browse repository using the Pserver protocol Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for commit browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB Place project from VOB ClearCase snapshots support View editor for selecting, creating, and modifying ClearCase View editor for selecting, creating, and modifying ClearCase® views View editor for selecting, creating, and modifying ClearCase® views View editor for selecting, creating, and modifying ClearCase® views View editor for selecting, creating, and modifying ClearCase® views View editor for selecting, creating, and modifying ClearCase® views View editor for selecting View editor	Create project from CVS repository	✓	✓	✓
Reconciling local files with repository: read-only reconcile and read-write reconcile CVS local and remote file system, remote CVS server, and remote shell connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for status browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB Place project into VOB ClearCase snapshots support Unified Change Management (UCM) support Apply label V V V V V A A A A A A A A A A A A A	Browse CVS modules in repository	✓	✓	✓
CVS local and remote file system, remote CVS server, and remote shell connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for status browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB ClearCase snapshots support V Unified Change Management (UCM) support Launch ClearCase Explorer® Apply label	New! Browse repository using the Pserver protocol	✓	✓	✓
connections, now with port selection Direct protocol support for CVS Rational® ClearCase®-specific View editor for selecting, creating, and modifying ClearCase® views ClearCase support for status browser ClearCase support for commit browser Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out Direct protocol support for ClearCase Create project from VOB ClearCase snapshots support Unified Change Management (UCM) support Launch ClearCase Explorer® Apply label V V V V A A A A A D V A V A ClearCase Snapshots Support V A A A A A A A A A A A A A	Reconciling local files with repository: read-only reconcile and read-write reconcile	✓	✓	✓
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View editor for selecting, creating, and modifying ClearCase® views ✓ ClearCase support for status browser ✓ ClearCase support for commit browser ✓ Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out ✓ Direct protocol support for ClearCase ✓ Create project from VOB ✓ Place project into VOB ✓ ClearCase snapshots support ✓ Unified Change Management (UCM) support ✓ Launch ClearCase Explorer® ✓ Apply label ✓	Direct protocol support for CVS	✓	✓	✓
View editor for selecting, creating, and modifying ClearCase® views ✓ ClearCase support for status browser ✓ ClearCase support for commit browser ✓ Checking in and checking out file to and from Version Object Base (VOB) view and undo check-out ✓ Direct protocol support for ClearCase ✓ Create project from VOB ✓ Place project into VOB ✓ ClearCase snapshots support ✓ Unified Change Management (UCM) support ✓ Launch ClearCase Explorer® ✓ Apply label ✓	Bational® ClearCase® specific			
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Create project from VOB ✓ Place project into VOB ✓ ClearCase snapshots support ✓ Unified Change Management (UCM) support ✓ Launch ClearCase Explorer® ✓ Apply label ✓	Checking in and checking out file to and from Version Object Base (VOB) view			√
Create project from VOB ✓ Place project into VOB ✓ ClearCase snapshots support ✓ Unified Change Management (UCM) support ✓ Launch ClearCase Explorer® ✓ Apply label ✓	Direct protocol support for ClearCase			✓
ClearCase snapshots support ✓ Unified Change Management (UCM) support ✓ Launch ClearCase Explorer® ✓ Apply label ✓				✓
Unified Change Management (UCM) support Launch ClearCase Explorer® Apply label ✓	Place project into VOB			✓
Launch ClearCase Explorer® Apply label ✓	ClearCase snapshots support			✓
Apply label ✓	Unified Change Management (UCM) support			✓
Apply label ✓	Launch ClearCase Explorer®			✓
ClearCase user options ✓				✓
	ClearCase user options			✓



	PERSONAL	DEVELOPER	ENTERPRISE
ClearCase merge manager			✓
ClearCase find checkouts			✓
Create a ClearCase VOB (versioned object base)			✓
Create and update view			✓
Project explorer			✓
Join UCM project			✓
Native ClearCase tools support for file operations, including check-in, check-out, undo check-out, add file, properties for file, history for file, compare with prior version, and version tree for file			√

Microsoft [®] Visual SourceSafe [®] (VSS)-specific features		
VSS commit browser to resolve conflicts	✓	✓
New! Directory browser to pull and place a Visual SourceSafe project	✓	✓
Pull and post files from and to VSS project	✓	✓
VSS support for status browser	✓	✓
VSS support for commit browser	✓	✓
Direct protocol support for VSS	✓	✓
Create project from VSS	✓	✓
Place JBuilder project into VSS	✓	✓

Web development

Servlet engine integration		
Borland® Enterprise Server, Web Edition support		√
New! Borland® Enterprise Server 5.2 support		✓
Tomcat 3.3 with Servlet 2.2 and JSP 1.1	✓	✓
Tomcat 4.0 with Servlet 2.3 and JSP 1.2	✓	✓
Tomcat 4.1 with Servlet 2.3 and JSP 1.2	✓	✓
BEA® WebLogic® 6.0, 6.1, and 7.0 servlet engine support		✓
New! BEA® WebLogic® 8.1 servlet engine support		✓
IBM® WebSphere® 4.0, all editions servlet engine support		✓
New! IBM WebSphere 5.0 servlet engine support		✓
New! Sybase® Enterprise Application Server (EAServer) 4.2 servlet engine support		✓
Sun® ONE (iPlanet [™]) Application Server 6.0, and 6.5 servlet engine support		✓

MVC-based Struts application framework		
HTML/JSP to Apache Struts converter wizard	✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Struts action form creation wizard		✓	✓
Struts action creation wizard		✓	✓
Generate JSP input form from Struts action form		✓	✓
Struts visual configuration editor		✓	✓
Web application wizard with Struts support		✓	✓
Struts framework support in JSP wizard		✓	✓
New! Struts 1.1 support		✓	✓
Web deployment			
Advanced error detection of embedded Java source in JSP, by pre-compiling before deploying to servlet engine		√	√
Web Start launcher wizard		✓	✓
WAR Web application archives		✓	✓
Two-way Deployment Descriptor Editor according to Servlet 2.2/2.3 specification		✓	✓
Java Web Start support			
Java Web Start-ready applications for Java [™] Network Launching Protocol (JNLP) creation		✓	1
JNLP support v1.0.0		✓	✓
Web Start home page generation with Java plug-in detection		✓	1
Integrated Web development			
Unified configuration of Borland Enterprise Server for JSP, servlets, and EJB when used as Web server			1
JSP/Servlet framework support		✓	✓
Struts 1.0 framework		✓	✓
InternetBeans Express 1.1 framework		✓	✓
JSTL (JavaServer Pages Standard Tag Library) 1.0 framework		✓	✓
O (
Cocoon framework JavaScript® execution and viewing for most common JavaScript tasks			√
Support for Servlet 2.2/JSP 1.1 and Servlet 2.3/JSP 1.2 standards			→
Plug-in-ready servlet engine support			<u> </u>
			<u>√</u>
Option to switch between servlet plug-ins			
Tomcat 3.1, 3.2, 4.0, and 4.1 engine plug-in			· ·
CSS templates for creating presentation layers for XML data			· ·
StructureInsight [™] for XML, JSP, HTML, WML, and XSL source files			✓



	PERSONAL	DEVELOPER	ENTERPRISE
Advanced Web development for Java [™] servlet support			
Rapid development of dynamic servlet based thin-client Java services		✓	✓
Servlet 2.3 filters and listeners		✓	✓
Includes servlet templates		✓	✓
Servlet wizard for creating thin-client HTML, XHTML, XML, and WML Java servlets based on Servlet 2.2 and 2.3		✓	✓
Local execution of servlet		✓	✓
Local debugging of servlet		✓	1
Remote execution of servlet		✓	✓
Remote debugging of servlet		✓	✓
Advanced Web development for JSP [™] servlet support			
JSP Tag Library support		✓	✓
Tag Library integration with JSP/Servlet framework		✓	✓
Rapid development of dynamic JSP-based thin-client Java services		✓	✓
JSP wizard for rapidly creating JSP Web applications based on JSP 1.1/1.2 and tag libraries		1	1
Executes JSP in the built-in Web server			✓
JSP syntax highlighting and structure view		✓	✓
Includes servlet and JSP templates		✓	✓
Local execution of JSP		✓	✓
Easier launch of JSP (WebRun and WebDebug)		✓	✓
Remote execution of JSP		✓	1
Local inline debugging of JSP		✓	✓
Native JSP debugging with full breakpoint, watches, evaluation, and context information support		1	1
CodeInsight, ErrorInsight, ToolTip Evaluation for JSP-embedded Java		1	✓
InternetBeans [™] Express for component-based, data-driven app	lications		
InternetBeans Express presentation components for rapidly creating Web-driven Internet applications based on DataExpress™		✓	✓
InternetBeans Express JSP/Servlet framework		✓	✓
InternetBeans Express employ proven DataExpress components for ultra-fast database access to JDBC or JDataStore [™] databases		1	1
More than 15 InternetBeans [™] for page producer, table, field, check-box, combobox, text-area, and more controls		1	1
Rapidly create dynamic, data-driven thin-client Web documents, including support for markup languages such as HTML, XML, and WML		✓	1



	PERSONAL	DEVELOPER	ENTERPRISE
Quickly link Web front-ends with EJB			✓

Web Services

Web Services	
New! Support for asynchronous Web Services	1
Import WSDL wizard to generate Java classes from existing WSDL	1
Implement a Web Service as an EJB based on WSDL	✓
Export Class As A Web Service wizard to expose selected methods of a Java class as Web Services and generate WSDL file	1
Deploy an EJB as a Web Service	1
Create a SOAP deployment environment	✓
New! Support for Apache SOAP Version 2.3	✓
Support for Apache Axis Web Services runtime	✓
New! Support for Apache [™] Axis version 1.2	✓
Support for WebLogic native Web Services runtime and deployment	✓
New! Support for WebLogic 8.1 native Web Services	✓
Deploy Axis runtime to Tomcat, Borland Enterprise Server, WebLogic, and WebSphere	1
UDDI Web Services explorer to browse and import available services	1
New! UDDI Web Services Explorer now supports UDDI 2.0	1
Publish Java Web Service to UDDI directory	✓
TCP Monitor to monitor SOAP messages transported between client and server	✓

Database

Third-generation DataExpress [™] components for simplified data	a access a	nd managen	nent
dbSwing [™] data-aware JavaBeans for developing full-featured Java 2 database applications	✓	✓	✓
Swing data-aware models and binders for use with standard Swing components, including JTable, JList, and text controls	✓	✓	✓
ProcedureDataSets to easily use stored procedure in applications	✓	✓	✓
Serializable DataSets for distributed database computing solutions	✓	✓	✓
DataExpress data-access components with JDBC database connectivity, including support for master-detail relationships, picklists, lookups, multiple table joins, and transactions	1	1	1
JDBC data sources	✓	✓	✓
Connection pooling	✓	1	✓



	PERSONAL	DEVELOPER	ENTERPRISE
DataExpress source code for control and flexibility in building Java database applications			✓
Connect to registered data sources via JNDI	✓	✓	✓

Simplify database development with an integrated suite of SQL	tools		
Visual tools for creating two-tier client/server applications	✓	✓	✓
StructureInsight for SQL database queries		✓	✓
SQL Builder to visually create and edit SQL queries to JDBC data sources		1	✓
Database Pilot [™] for viewing database schema and creating connection URLs		✓	✓
Visual tools for database development, including column editor, connection editor, link editor, sort editor, MetaDataUpdate Editor, and Resolve Order Editor	✓	✓	1
SQL92 query syntax support	✓	✓	✓
Resourceable SQL to simplify management of SQL code	✓	✓	✓
JDBC monitor to test and tune SQL applications		✓	1
Interactive SQL command line tool		1	1

Borland [®] JDataStore [™] —embedable Java [™] database for development, prototyping, and			
deployment			
Extremely fast JDBC database written entirely in Java	✓	✓	✓
Faster JDBC access than many established native databases	✓	✓	✓
Small RAM and disk memory footprint	✓	✓	✓
Generates very small database file footprint, often half the size of competitors	✓	✓	✓
Easier to embed and deploy using a single executable .jar file	✓	✓	✓
Nearly zero administartion	✓	✓	1
Automatic crash recovery	✓	✓	1
Visual tools and error messages available in Japanese, German, French, and Spanish	✓	1	1
Development license for JDataStore included (additional licensing required for deployment)	1	✓	1
Extremely powerful! Supports complex business logic and thousands of users	✓	✓	1
Tight integration between JBuilder and Borland Enterprise Server for highly productive development	✓	1	1
Certified on broad range of Java Virtual Machines (JVM [™]) including JVM 1. 4, 1.3, 1.2, and 1.1	1	1	1
Certified on many OS platforms, including Linux, [®] Mac OS X, Windows [®] 95, 98, 2000, Windows XP [™]	1	1	1



	PERSONAL	DEVELOPER	ENTERPRISE
Supports small device platforms, including Symbian [™] OS, embedded Linux, and Windows CE [®]	✓	✓	✓
Passes the entire Sun J2EE 1.3.1 Certification Test Suite (CTS), including the JDBC, PM, XA, and JTA test trees	✓	✓	✓
Complete support for JDBC 3 compliance	✓	✓	✓
JDBC 3 save points and parameter metadata	✓	✓	✓
ODBC support for native applications using the EasySoft [™] ODBC-JDBC Gateway	✓	✓	✓
Comprehensive subset of entry-level SQL 92 standard	✓	✓	✓
Local Type 4 JDBC driver for high-speed in-process access	✓	✓	✓
Remote Type 4 JDBC driver for multiprocess/computer access	✓	✓	✓
New! Optimized for high transaction loads of J2EE/EJB/OLTP applications	✓	✓	✓
Optimized for complex DSS/OLAP queries	✓	✓	✓
Optimized to allow read-only transactions to operate at full speed without needing to acquire locks	✓	1	✓
Ability to use read-only transactions for online backup and long running reports for continuous database availability	1	1	✓
Support for all four JDBC transaction isolation levels	✓	✓	✓
Row-level locking for increased concurrency	✓	✓	✓
JDBC connection pooling with statement caching	✓	✓	✓
High-speed transactional crash recovery from system failures	✓	✓	✓
Unicode for String/Char data	✓	✓	✓
Support for collation keys for international sorting and indexing	✓	✓	✓
Database and log files portable across all platforms	✓	✓	✓
Support for many additional SQL keywords including: ACTION, ANY, CALL, CHECK, EXCEPT, FOREIGN, INTERSECT, NO, REFERENCES, SOME, USER	✓	✓	✓
Stored procedures and user-defined functions that can be implemented in Java	✓	✓	✓
Support for Java triggers	✓	✓	✓
Security features for user authentication and database encryption	✓	✓	✓
Rich data type support for Java primitives, Java objects, and Blobs	✓	✓	✓
Data replication support using DataExpress components for disconnected computing models	✓	✓	✓
"Pluggable" storage for DataExpress data-access JavaBean components	✓	✓	✓
Direct binding of tables and columns to visual swing JavaBean controls	✓	✓	✓
Portable transactional file system capability for random access files	✓	✓	✓
Visual JDataStore [™] Explorer interactive data viewing and editing	✓	✓	✓
Visual JDataStore Explorer transaction, security, and backup administration	✓	√	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Visual JDataStore Explorer import from other JDBC databases for interoperability	✓	✓	✓
Visual JDataStore Explorer interactive table/index create/restructure provided	✓	✓	✓
Visual JDataStore Explorer interactive SQL execution	✓	✓	✓
Visual JDataStore Server interactive database connection monitoring and logging	✓	✓	1

Enterprise application development

Application server support	
Extendable modular services-based server integration to support servlet, JSP, EJB, and deployment using multiple platforms.	✓
New! Create multiple copies of application server integration configurations	✓
New! Customize synchronization of application server integration configurations with individual projects	✓
New! Borland [®] Enterprise Server, AppServer [™] Edition 5.2 with EJB 1.1/J2EE 1.2 and EJB 2.0/J2EE 1.3	1
New! BEA WebLogic 8.1 with EJB1.1/J2EE 1.2 and EJB 2.0/J2EE 1.3	✓
WebLogic 7.0, with EJB 1.1/J2EE 1.2 and EJB 2.0/J2EE 1.3	✓
WebLogic 6.1, with EJB 1.1/J2EE 1.2 and EJB 2.0/J2EE 1.3	✓
WebLogic 6.0 with EJB 1.1	✓
New! IBM WebSphere 5.0 with EJB 1.1/J2EE 1.2 and EJB 2.0/J2EE 1.3	✓
IBM WebSphere 4.0 with EJB 1.1	✓
Sun ONE (iPlanet) Application Server 6.5 with EJB 1.1	✓
Sun ONE (iPlanet) Application Server 6.0 with EJB 1.1	✓
Oracle9i [™] Application Server ²	✓
New! Sybase [®] EAServer 4.2	✓
Sybase® EAServer 4.1	✓

Enterprise deployment archives (EAR)	
EJB archives according to J2EE 1.2 specification	✓
EAR group file nodes J2EE 1.2- and J2EE 1.3-compatible	✓
Import existing external archives into EAR group	✓
Import from existing EJB groups	✓
EAR packaging, deployment, and run for all supported application servers	✓
J2EE application client JAR files	✓

EJB [™] test client wizard	
Boundary testing	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Generate test clients from a pre-packaged EJB archive			√
Generate test clients based on JUnit or Cactus			√
DataExpress [™] for EJB [™]			
DataExpress for EJB for seamless access of session beans and entity beans			
through DataExpress			•
DataExpress access beans SessionBeanConnection, EjbClientDataSet,			√
EntityBeanProvider, EntityBeanResolver to connect back-end business logic to			
front-ends			
Rapid J2EE [™] platform-compliant development and deployment	ent		
Local and remote Hot-Deploy deployment to running EJB container			✓
Java [™] Messaging Service (JMS) wizard for creating message producers and consumers			✓
Generate or update source implementation skeletons from remote interface			✓
Visually create EJBs to comply with the J2EE standard			✓
EJB 1.1-compliant support and EJB 2.0-style interfaces with visual tools			✓
Visual creation of EJB deployment, environment, and control descriptors			✓
EJB groups to organize deployment descriptors and EJB archives			✓
Multiple EJBs per project			✓
EJB group wizard to create EJB groups for importing existing or creating new EJB descriptors			1
EJB wizard for creating entity and session bean Java source code, including home and remote interfaces	;		1
Auto-packaging of beans at project build time			✓
Creation of deployable archives per EJB group at project build time			✓
Instant execution of EJB in run or debug mode			✓
Container (application server) configuration for default and EJB 1.1-compliant application servers			1
EJB-aware BeansExpress with visual property editor and method level conflict resolution			1
EJB test client wizard to create beans based on available EJB group			✓
Use EJB test client wizard to customize EJB client based on EJB group			✓
Resource adapters archive (RAR) support for packaging EIS connectors for J2EE			✓
Two-way deployment descriptor editor		/	,
Visual creation and configuration of XML deployment descriptors			· ·
Deployment descriptor XML source editor		✓	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Two-way editing of deployment descriptor for home and remote interface, container transactions, security roles, and data sources	PERSONAL	✓	✓
StructureInsight for visual and XML deployment descriptors		✓	✓
Bean verifier to check integrity of EJB before deployment		✓	✓
Visual designer for EJB [™] 2.0			
Visual point-and-click two-way designer of entity, session, and message beans. Two-way generation of both classes and deployment descriptors			✓
Improved performance, error handling, and better diagrams			✓
Support for more coding scenarios, including multiple ejbCreate methods per bean and bean inheritance, and two-way coding support for individual user coding styles			✓
Visually create Container Managed Persistence (CMP) entity beans, including properties and interfaces			1
Visually design CMP 2.0 relationships and configure database mapping			✓
Visually create session beans			✓
Automatically arrange beans			✓
Create multiple design panes to logically group beans in an EJB group			1
Generate database schema from entity beans in the designer			✓
Import EJB source code without deployment descriptors			✓
Import EJB for CMP 2.0 and Bean Managed Persistence (BMP) projects for Borland Enterprise Server and BEA WebLogic into the designer			✓
Control cardinality of CMP 2.0 relationships			✓
Automatically insert and update import statements when exposing a method with a remote interface			✓
Visually create message-driven beans			1
Edit bean package source paths			✓
Generate entity beans from existing database schema			✓
Visually move methods between beans and interfaces			✓
Support for BMP-driven entity beans			✓
Entity Bean Modeler [™] for EJB [™] 1.0 and EJB 1.1			
User-defined mapping between table metadata and Java data types			✓
Generate BMP source code from table relations			✓
Entity Bean Modeler to create CMP and BMP entity beans, including home and remote interfaces, as well as primary key classes			√
Combination of DataExpress integrated database tools with entity bean functionality			1



Visual mapping of data source, tables, and fields to entity bean

	PERSONAL	DEVELOPER	ENTERPRISE
Model entity bean table relationships between tables for foreign keys, primary keys, unique indexes, field names, and field types			✓
Fine-tuning of class, interface, primary keys, and JNDI names for Java code generation			1
Optionally generate EJB 1.1– or EJB 2.0–style classes with abstract field accessors			1

Borland® Enterprise Server support Enhanced! Borland Enterprise Server, AppServer Edition 5.2 development license, a complete J2EE 1.3 and EJB 2.0 implementation, including both an EJB service and a Servlet/JSP service	1
Support of EJB for stateless and stateful session beans, message-driven beans, and entity beans with bean-managed persistence and container-managed persistence	1
Dynamic Hot-Deploy, to deploy/undeploy/redeploy EJBs to container without shutting down or restarting	1
JBuilder integration provides an authentic enterprise development and deployment experience for J2EE and Web Services applications	✓
Full support for the Java [™] Connector Architecture	✓
Borland Enterprise Server includes support for the CORBA 2. 4 specification	✓
Support for distributed transactions with Java Transaction Service (JTS) and Java Transaction API (JTA)	1
2PC Transaction Service	✓
Support for JMS through SonicMQ [®] bundling	✓
SonicMQ 4 integration	✓
Enhanced support for CMP 2.0 entity bean relationships	✓
J2EE Blueprints including SmarTicket, PetStore 1.3 and clustered PetStore 1.3	✓
Support for local interfaces	✓
RMI-over-IIOP and Java-to-IDL mapping	✓
CORBA compliance with both RMI-over-IIOP and Java-to-IDL mapping	✓
Ability to instantiate CORBA objects and EJB in the same container	✓
JNDI naming, load balancing, fault tolerance, and fail-over in the Naming Service	✓
Java Naming and Directory Interface (JNDI)	✓
Both HTML-based and Java-based visual GUI tools for simplified administration	✓
Security features out of the box, including strong 128-bit encryption, authentication, and authorization	√
Support for efficient application partitioning	✓
Management functionality	✓
Integrated Management Console with auto-discovery of components	✓



	PERSONAL	DEVELOPER	ENTERPRISE
Management server (Borland Management Hub) includes the ability to establish ules to create the desired state of managed applications			✓
Database Repository provides scalability and reliability			✓
Best-practices clustering support including a Cluster Wizard to easily build a load- palanced cluster of J2EE servers			✓
Define rules to control start and stop sequence of services across multiple AppServers in cluster			✓
ntegrated Java Web server with support for Servlets and JSP			✓
Web Services support based on Apache Axis—expose EJBs, Java, and CORBA as Web Services			1
Apache 2.0 includes improvements in performance and scalability			✓
Tomcat 4.0 with metrics display to track number of hits, response time, and instance counts			✓
IIOP Connector delivers improved performance, Smart Session support, and the ability to cluster Tomcats across multiple domains with fail-over and round-robin support			1
Usability using the Borland Console allows easier configuration of Web container			✓
New! Integrated WebLogic Server [™] 8.1 (EJB 1.1 and EJB 2.0) development support, including both an EJB service and a servlet/JSP service			
Integrated WebLogic Server [™] 7.0 (EJB 1.1 and EJB 2.0) development support,			
ncluding both an EJB service and a servlet/JSP service			
ntegrated WebLogic Server 6.1 (EJB 1.1 and EJB 2.0) development support			✓
ntegrated WebLogic Server 6.0 (EJB 1.1 and EJB 2.0) development support			✓
ntegrated support for WebLogic Server 7.0 native Web Services runtime			✓
Support for CMP and BMP entity bean creation			✓
EJB 2.0 CMP relationships for entity bean support			✓
EJB 2.0 message-driven beans			✓
Targeted deployment to WebLogic Server			✓
Oynamic Hot-Deploy to deploy/undeploy/redeploy EJBs to container without shutting down or restarting			✓
ntegrated Two-Way-Tools for managing and deploying beans, including Deployment Descriptor Editor, Entity Bean Modeler, and more			✓
Configurable WebLogic ejbc compiler settings for home and remote interfaces			1
IDM® Wals Calbara®			
IBM® WebSphere® server support New! Integrated WebSphere 5.0 (EJB 1.1) development support including both an			✓
EJB service and a servlet/JSP service			•



	PERSONAL	DEVELOPER	ENTERPRISE
Integrated WebSphere 4.0 (EJB 1.1) development support including both an EJB service and a servlet/JSP service			•
Support for BMP entity bean creation			✓
Targeted deployment to WebSphere server			✓
Integrated Two-Way-Tools for managing and deploying beans, including Deployment Descriptor Editor, Entity Bean Modeler, and more			1
Sun® ONE Application Server support			
Integrated Sun ONE iPlanet 6.5 (EJB 1.1) development support including both an EJB service and a servlet/JSP service			1
Integrated Sun ONE iPlanet 6.0 (EJB 1.1) development support			✓
Support for CMP and BMP entity bean creation			✓
Targeted deployment to Sun ONE Server			✓
Integrated Two-Way-Tools for managing and deploying beans, including Deployment Descriptor Editor, Entity Bean Modeler, and more			1
Dynamic Hot-Deploy to deploy/undeploy/redeploy EJBs to container without shutting down or restarting			1
			1
CORBA® distributed object development			
Included! Borland VisiBroker [®] for CORBA ORB [™] development license, naming, and event services for creating distributed Java 2 applications			1
Visual tools for rapidly creating HTML front-ends to CORBA servers using servlets or JSP			1
Generation of server monitors to simplify testing of CORBA servers			✓
Advanced integration of CORBA/IIOP development with support for both Borland VisiBroker [®] for Java and OrbixWeb [™] for Java data modeler to visually create IDL interfaces for distributed CORBA development			1
IDL navigation and syntax highlighting			✓
Visual tools to rapidly create client applications for CORBA servers			✓
Visual tools to rapidly create CORBA servers			✓
Multi-tier CORBA sample applications using VisiBroker with source code			✓
Full support for the CORBA 2. 4 specification			✓
Portable Object Adapter (POA) with support for POA policies, such as Thread, Lifespan, Object ID Uniqueness, ID Assignment, Servant Retention, Request Processing, and Implicit Activation			√
Objects By Value (OBV) for passing of arbitrary complex objects and graphs of objects by value across processes, machines, and languages			1
Java2iiop compiler for creating IIOP-compliant stubs and skeletons directly from Java interfaces			✓



	PERSONAL	DEVELOPER	ENTERPRISE
RMI distributed object development			
Integrated project management for RMI development	✓	✓	✓
Automatic invocation of RMIC postprocessor to create skeletons and stubs	1	1	✓
Synchronized interface and implementation			✓
RMI encapsulation			✓

J2EE made easier

Applications based on Session Facades, Struts, and DTO patterns	
New! Session façade wizard to create session beans based on session façade and DTO pattern	✓
New! Wizard to create JavaBean client wizard for session facades	✓
New! Wizard to create Struts application for client session facades	✓

Complete performance tuning with Borland® Optimizeit™ Suite 5.5

Flexibility to match many development environments			
New! Borland® Optimizeit™ Suite delivers complete performance management capabilities for identifying and solving code-level performance issues. This integrated solution comprises Optimizeit™ Profiler, Optimizeit™ Thread Debugger, and Optimizeit™ Code Coverage			✓
New! Improve performance and reliablity of any Java code: Java applications, J2EE applications, servlets, applets, Enterprise JavaBeans, JavaBeans, JSP applications, and Java tag libraries			✓
New! Requires no code modifications; runs with Sun JDK 1.1.8, most Java 2-compliant virtual machines, including Sun J2SE v1.3 with built-in HotSpot [™] Virtual Machine, Sun J2SE v1.4.1, and IBM [®] Developer Kit, Java [™] 2, Technology Edition, version 1.3			✓
New! Integrates fully with popular application servers including Borland Enterprise Server, IBM WebSphere, BEA WebLogic, and Sun ONE			1
New! Integration wizards for Borland Enterprise Server, AppServer Edition 5.2, BEA WebLogic Server 7.0 and 8.1, and IBM WebSphere 5.0			✓
New! Seamless integration with JBuilder enables developers to run Optimizeit [™] Suite right from within the JBuilder UI	✓	1	✓
New! Easily connects to a remote Java process to test a program running on a different machine			1
New! Optimizeit Performance Tracker analyzes the performance impact of code changes by comparing snapshots			1

Optimizeit[™] Profiler for memory and CPU profiling

New! High-level performance overview allows developers to understand in real time if a performance issue is related to CPU, or memory, or both



	PERSONAL	DEVELOPER	ENTERPRISE
New! High-level performance-related data displayed in real time allows developers to understand if a performance issue is related to CPU, memory, or both			✓
New! Automatic Memory Leak Detector monitors the evolution of memory usage over time for the immediate identification of potential memory leaks			✓
New! Real-time monitoring of object allocations to understand how the profiled program uses the virtual machine memory; Allocation Backtrace View allows developers to identify the code or part of the program responsible for instance allocations			✓
New! Object Size Display automatically computes and displays in real time the amount of memory being consumed by all instances of a class; view and sort by object size to prioritize objects consuming the most memory			1
New! Reduced reference graph provides a transitive closure of the full reference graph to display only references that should be removed in order to free the object for garbage collection			1
New! CPU Profiler: measure pure CPU usage or time usage during a profiling session, with option to use sampling-based or instrumentation-based profiler			1
New! Display of profiling information per thread and thread groups with color highlighting of threads that were busy during profiling session			1
New! Hot Spot Display: lists methods where most time was spent to help identify bottlenecks due to single methods			✓
New! Visually isolate critical code with a new scalable call graph. Select a string allocation and highlight the flow of a method call to see where memory and time are being spent			√
Optimizeit [™] Thread Debugger			
New! Real-time display of the progress of all threads running within the virtual machine			1
New! Easy-to-read color coding of thread behavior makes it simpler to understand thread issues occurring in real time: thread contentions for a monitor, thread starvation for a resource, and excessive locking			√
New! Understand thread contentions for a monitor with the detailed panels of the Contention View			1
New! Wait state monitoring: understand why a thread is not making progress with the Waiting View and I/O Waiting View			1
New! Excessive locking: Monitor Enter View reports where a thread enters and holds monitors, allowing developers to understand and correct excessive locking			1
New! Deadlock analysis: graphical view of the relationships between threads and monitors to quickly understand deadlock situations			1
New! Predict deadlocks: Monitor Usage Analyzer generates full list of warnings and errors that may lead to deadlocks and performance bottlenecks such as lock order warnings, lock and wait warnings, and lock and I/O wait warnings			1



	PERSONAL	DEVELOPER	ENTERPRISE
Optimizeit [™] Code Coverage			
New! Real-time Class Coverage View to quickly see the coverage for each class and identify classes not fully covered			✓
New! Real-time display of all classes and interfaces used by the tested program and real-time percentage of lines covered per class			✓
New! Method Coverage View displays the methods and lines of code for a selected class which have not been used, allowing developers to modify test plans to cover all areas of the code			✓
New! Source Code Viewer shows lines of code which have never been executed, making it simpler to spot dead code			✓
New! Option to display the interfaces that have been loaded by the virtual machine and those that have not been loaded			✓
New! Batch-mode support to easily include code coverage in any batch-mode testing process			1
New! SnapshotMerger merges different runs of the same application from the command line to see coverage of the combined runs			1
New! Generate customized, detailed coverage reports directly from the command line			1

¹ Available on Windows[®] platform only.

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² Oracle9i[™]Application Server integration plug-in must be installed separately from JBuilder CD and is supported by Oracle.