

JBuilder Product Roadmap

Paving the way for the next Java generation leveraging Eclipse and Open Source

Building on a history of delivering leading Java development solutions, the Developer Tools Group is excited about the path of JBuilder as it enhances the current release with updates and moves to the Eclipse framework including:

- A free JBuilder 2006 Foundation edition [available for download](#) today
- Two new JBuilder 2006 updates planned for release this year
- The next major release of JBuilder codenamed "Peloton" expected to be available in Q4
- Future releases JBuilder 2008, 2009

Over the coming years JBuilder will continue to provide the same innovative features and ease-of-use that users have come to expect from the JBuilder franchise, but will increasingly appeal to developers who want to leverage Eclipse plug-ins, open source tools and emerging development paradigms including SOA. [Hide image](#)



Migration from Primetime-based to Eclipse-based product and beyond ...

Today... JBuilder 2006 Foundation & Updates

JBuilder 2006 began the transition to a more collaborative team development environment with features such as shared code editor views and joint debugging capabilities. These capabilities allow local and remote developers to jointly design, edit and debug applications in real time. A free JBuilder 2006 Foundation edition is available for download today.

JBuilder, which has a history of offering Java developers a way to simplify and harness the latest technologies and Java standards, will continue to support the latest JCP standards as they become available. A JBuilder 2006 update will be available mid 2006 to support Java SE 6 ("Mustang") and an additional service pack will be available shortly after Mustang is formally released by Sun Microsystems.

...tomorrow... JBuilder "Peloton"

The next release of JBuilder 2007 – codenamed "Peloton"– moves JBuilder customers forward to an Eclipse-based JBuilder core. Peloton brings together the award winning #1 commercial Java development solution and the #1 extensible open source Eclipse framework.

Customers familiar with JBuilder will be able to seamlessly transition their current projects with minimal interruption, and will be able to take advantage of a rich community of open source Eclipse plug-ins.

"Peloton" will support the same kind of team collaboration features available now in JBuilder 2006, provide enhanced support for visual EJB and Web Services design and development, and include migration tools designed to ensure an easy transition from earlier versions of JBuilder.

By leveraging Eclipse, JBuilder will offer users the flexibility and cost-efficiencies of using an open platform, while providing the ease-of-use, enterprise-class functionality, support and "magic" that JBuilder customers have come to expect.

"Peloton" highlights

- New Eclipse-based JBuilder core allows customers to extend their development tooling easily while maintaining a high-productivity code authoring experience

- Java Enterprise 5 development including EJB 3 made accessible through a simple, standards-based visual development environment
- Support for new Java standards such as JSE 6 and the latest JSRs
- Visual GUI development for both Swing and SWT
- Certified Eclipse bundle, updated regularly with the latest plug-ins, reduces the total cost of ownership for Eclipse adopters
- Visual Web Services development using a familiar graphical metaphor, full round-trip development of web services and web service clients
- Virtual Peer-to-Peer Collaboration allows distributed teams to effectively work together with live co-editing and co-debugging
- Sample Applications, Documentation and Migration Guides/Aids will smooth the move to an exciting, new, high-productivity environment

....and beyond. JBuilder 2008 and JBuilder 2009

Future releases of JBuilder will also include Rapid Application Development (RAD) web development tooling. The center of gravity in web development is a complex mix of runtimes and frameworks, including powerful offerings from the Open Source community such as Spring, Hibernate and Shale. New tooling capabilities within future versions of JBuilder will help developers address this complexity and better leverage the flexibility and value that Open Source Systems can provide.

Additionally, JBuilder 2008 and 2009 will include an SOA cockpit that greatly simplifies and expands the developer's capabilities in building SOA applications. SOA tooling today is a disparate set of tools and JBuilder will provide a better way to develop, assemble, orchestrate and deploy SOA applications. Future versions of JBuilder will also offer support for additional open source tools and frameworks, and will offer integration with Application Lifecycle Management (ALM) products from Borland and others including Open Source solutions. Future products will continue the JBuilder tradition of supporting the latest versions of application servers and emerging Java standards, such as EJB 3.0 and JEE5.

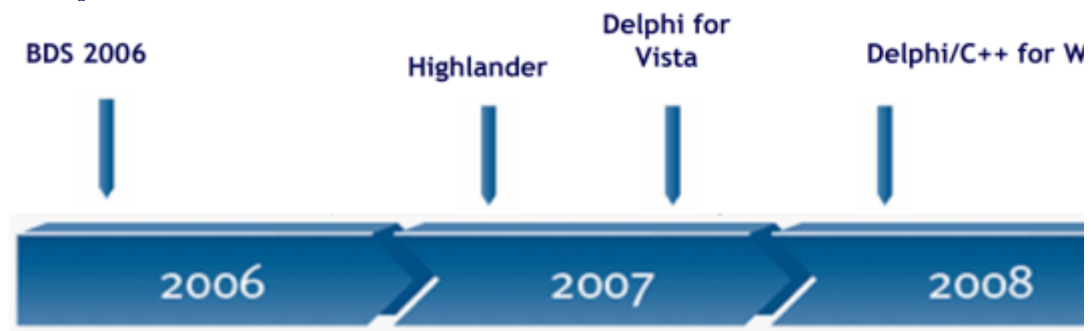
Delphi/C++ Product Roadmap

Delphi was originally envisioned as a next-generation visual development environment for Windows based on Borland's Object Pascal programming language and building upon the success of the popular Turbo Pascal IDE. At the intersection of RAD and client-server development trends, the original Delphi combined a leading-edge visual environment and visual component library (VCL) with superior database access features.

For the last ten years, Delphi has continued to help developers take advantage of new technologies, from multi-tier Internet computing to Web services and Model-Driven Architecture (MDA), in a consistent visual environment and with the same tradition of superior connectivity as the original Delphi. As underlying platforms evolved, Borland has remained committed to helping developers maintain existing applications while adopting new technologies at their own pace. While Microsoft Visual Basic developers struggled with the complexity of transitioning from the underlying VBRUN Win32 framework to the .NET framework, Delphi developers were able to seamlessly move back and forth between VCL and VCL.NET.

This focus on seamless integration of new technologies has applied equally well to new technologies introduced by Borland, as recent versions of Delphi have incorporated more sophisticated enterprise development capabilities, such as model-driven development and application lifecycle management, with the same focus on developer usability and ease of adoption.

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Roadmap Themes

The Delphi roadmap expresses a number of key themes based on consistent customer feedback. In future releases of Delphi, Borland will address customer requirements in the following areas:

Support for the Latest Microsoft Technologies and Platforms, including 64-bit Windows, .NET 2.0, Compact Framework (CF), and Longhorn/Avalon/Indigo

Reduced Migration Risk, with enhancements to technologies such as VCL, ECO (Enterprise Core Objects), and BDP (Borland Data Provider) that shield the end user as much as possible from changing Microsoft technologies and APIs

An Integrated Developer Studio, with consistent support and productivity enhancements across multiple languages (C/C++, C#, Delphi, Delphi.NET) and platforms (Native Windows 32-bit, Native Windows 64-bit, .NET 1.x and 2.0)

Performance Improvements, including startup time, project load time, and deployed application runtime performance, as well as overall IDE responsiveness and stability

Enterprise Development, including enhanced project/build management, requirements management, bug tracking, and version control as well as support for modeling, rapid prototyping, and reverse engineering capabilities

Today.... Borland Developer Studio (BDS) 2006 "DeXter"

The release of BDS 2006 (previously code named "DeXter") brings C/C++ language support into the studio and improves productivity through enhancements in Code Insight, Code Completion, Code Templates, and refactoring across all four language personalities. On the Win32 side, significant language and toolchain enhancements have been made to the compiler, including support for operator overloading syntax in Win32 and support for inlining compiler magic functions such as Length(). On the .NET side, Together Modeling has been updated with all of the diagrams, audits and metrics, LiveSource™, and reverse engineering capabilities available in the stand-alone Together Developer product, while ECO III has added property change triggers and new executable state diagram definition and management. Increased performance analysis efforts, including optimized routines from the FastCode project and a new high performance non-blocking multithreaded memory manager, have resulted in drastic improvements in IDE startup times, as well as the runtime performance of deployed Win32 Delphi applications.

BDS 2006 fully supports Win32 C++ programming, alongside Delphi for Win32, Delphi .NET and C#. C++Builder coders will gain access to all the Delphi productivity tools developed since Borland C++Builder 6, including recent classics as SyncEdit, History Manager, and Code/Error Insight, as well as new features like Live Code Templates and Smart Block Completion. It also provides RAD VCL (Visual Component Library) application development in C++, using the latest VCL shared with Delphi. BDS 2006 supports development of Win32 VCL applications in Delphi and C++ and .NET 1.x WinForms and VCL.NET applications in Delphi and C#. The command line Delphi compiler supports building apps for .NET Compact Frameworks, though there is no IDE designer support for CF in this release. In addition, the first phase of Unicode support appears in BDS 2006, with Unicode-enabled dbExpress and BDP frameworks available, while drivers will be rolled out over 2006.

...tomorrow.... "Delphi Highlander"

The "Highlander" release scheduled for early 2007 will focus on updating the entire Delphi toolset to support .NET 2.0. There will be ongoing work for Win32 Delphi and Win32 C++ (such as unit testing and additional refactorings) but the most of the new work in Highlander will be focused on .NET 2.0. Highlander will add Delphi.NET support for generic types, partial classes, and nullable types, and all WinForms, Web Services, and ADO.NET support will be converted to support .NET 2.0. VCL, BDP, and ECO will all support .NET 2.0 as transparently as possible to minimize migration issues for customers. Delphi Highlander will fully support existing Delphi projects, including existing ASP.NET projects, and will provide seamless project conversion to .NET 2.0.

Highlander will include IDE design surfaces for .NET Compact Frameworks (using VCL.NET on CF), as well as support for transparently developing and debugging 64 bit .NET apps written using WinForms and VCL.NET. The phased approach to Unicode will continue in Highlander and through the subsequent Vista release, with enhancements to both the IDE and VCL runtimes to support Unicode. 64 bit code generation will be added to the Delphi native code compilers to support native 64 bit development and debugging after the initial Highlander release.

The current plan is to release Highlander in early 2007, with tech preview builds available for download by registered Delphi customers.

....and beyond. "Delphi Vista"

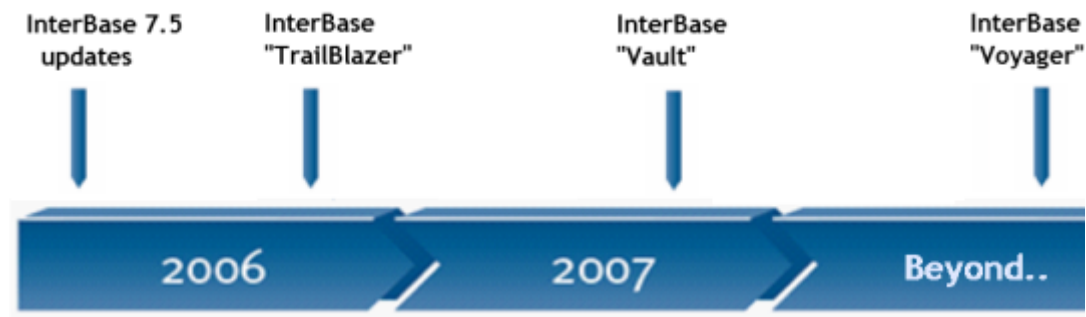
While the transition from .NET 1.x to .NET 2.0 is non-trivial, the next-generation Windows Presentation Foundation (WPF) and Windows Communication Framework (WCF) technologies ("Avalon" and "Indigo")

respectively) that Microsoft plans for their Windows Vista release constitute far more drastic changes for Windows developers, who may face challenges reminiscent of the VB to VB.NET transition. The Delphi release that follows Highlander will help reduce migration issues by providing a VCL for WPF and by integrating WCF into Delphi's multi-tier communications framework (e.g. ECO, BDP, DataHub and DataSync). In particular, support for reverse-engineering of existing applications with Together and deployment of executable models with ECO for WCF will significantly reduce the complexity of porting existing applications. In addition to supporting Windows Vista, WPF, WCF, and the WinFX APIs from Microsoft, this release will introduce managed C++ support as well as ECO support for C++, and will continue to add and enhance productivity features applicable across all language personalities and platforms in the studio.

InterBase Product Roadmap

InterBase is designed to allow performance and small footprint with a minimum of administration requirements. Its unique multi-generational architecture, compactness and self-tuning engine combined with an early adoption of innovations such as triggers, views, blobs and event alerters has made InterBase a popular choice for embedded database applications. Another strength area is deployment flexibility; the very same database can be used in single user embedded desktop application as well as scaled up to hundreds of simultaneous users in server applications deployed on Windows, Linux and Solaris.

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Today.... InterBase 7.5

The current version, InterBase 7.5.1, was released June 2005 and the last update provided in February this year. InterBase has been ANSI/SQL 92 compliant for ages, and is now running on Windows (2000, 2003 and XP), Linux (RedHat and SuSe), as well as Solaris SPARC (7, 8, 9). There are a wide range of standard database connectivity options; through ODBC, JDBC, ADO.NET, IBX and others. Some of the new goodies added with InterBase 7.5 are; improved scalability and performance through support for SMP systems, a garbage collector and scalable cache size; performance and usage monitoring; stability improvements including error reporting; system schema security and database-level security as well as improved administration tools including integrated performance monitoring.

...tomorrow.... InterBase "Trailblazer"

Moving forward, the next release of InterBase, codenamed Trailblazer, will add many new capabilities to address upcoming customer requirements. Some highlights are:

- **Durability** enhancements for even better protection against failures and increased recovery options, through; log-based journaling for short-term recovery; journal archiving for long-term recovery in the case of hardware system failures; and point-in-time recovery from archives
 - **Performance** enhancements and optimizations in a number of areas, for example; batch updates; query optimizations; and OLTP improvement via journaling
 - **International support** additions by support of Unicode support for UTF-8 and UCS2
- Trailblazer is targeted for release during the second half 2006.

....and beyond: InterBase "Vault", and InterBase "Voyager"

Beyond TrailBlazer we expect new deployment platforms to appear in the market, such as Windows Vista, and updated Solaris and Linux distributions. InterBase will be updated to support the major upcoming platforms, in separate updates and with future major versions.

For InterBase "Vault" (code name), planned for second half 2007, we've some major news in addition to overall improvements. Driven by InterBase's popularity in the VAR/OEM segment we're planning an Embedded Edition that will ship the engine as a DLL. Other themes we are working on for Vault are security; database encryption; even greater deployment flexibility with the addition of Mobile device deployments; enhanced Java support (JDBC type-2); and a slew of additional performance optimizations. Next, beyond Vault, we're planning an InterBase codenamed "Voyager". We expect 64 bit platforms to get wider acceptance, and thus, InterBase, by supporting 64 bits, will allow database and memory to grow tremendously. At a higher level, we're planning to enable enterprises to add rule based audit logging, on top of the application database, allowing for advanced audits of databases. Another area is replication/synchronization, especially to address organizations' need for synchronization between databases on mobile devices and enterprise servers.

Also, we know many developers will prefer to write stored procedures in Java, Delphi or a .NET language. Thus, transaction isolated "stored functions", can be written in, and perhaps most important, debugged in, Delphi or JBuilder.

NOTE: the above release plans are forward-looking and subject to changing

There's some really exciting years ahead for the DevCo database!