

IBM Informix Genero

*Accelerate development of mobile and
cloud-based applications*



Highlights

- Accelerate application deployment with easy-to-use graphical tools
 - Reduce development costs and improve productivity by delivering applications for multiple platforms without having to recompile code
 - Modernize existing 4GL applications by updating the user interface, adding web services, incorporating business graphics and integrating drag-and-drop functionality
 - Create applications for today's service-oriented architectures (SOAs); produce adaptable business services by facilitating effective communication among heterogeneous software assets
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Imagine software that enables your company to develop complex business applications rapidly. Imagine that this software lets you develop these applications once, and then deploy them across multiple user platforms without having to recompile code. You just imagined IBM® Informix™ Genero.

Informix Genero is a unique application development and deployment environment tailored for producing mission-critical business applications rapidly. Developers can capitalize on intuitive, graphical tools to model applications and then deploy them efficiently across multiple platforms, including desktops, browsers, mobile devices and cloud-based environments. Adopt Informix Genero to help accelerate application development, reduce development costs, protect existing 4GL investments and create business services for SOAs.

Deploy applications faster

Informix Genero provides a range of built-in components to help you produce applications faster and smarter than ever before, enabling you to respond with greater agility to ever-changing market needs. The reusable frameworks available in Informix Genero can help you develop applications faster than with previous generations of development tools.

Design custom user interfaces: Create and maintain portable user interfaces using simple, intuitive drag-and-drop actions. Place widgets, objects and containers in forms and then customize them.

Write business logic easily: Write business logic in a straightforward, easy-to-learn programming language that incorporates SQL statements as language elements and defines user interactions in an abstract, platform-independent manner.



Tune application performance quickly: Use the provided runtime profiler to quickly identify the “hot spots” in a project at the source-code level.

Simplify project management: Access built-in project management tools that provide a convenient, collapsible hierarchy tree. Navigate to any project branch or file with a few simple mouse clicks. Gain the agility to bring new solutions to market when users need them.

Internationalize: Localize strings and place them in files that are external to the main application so you can support user interfaces in multiple national languages while reducing the number of screens you need to develop and maintain.

Help reduce development costs

Informix Genero can help you achieve unparalleled cost savings by helping to reduce development time and improve resource utilization.

Compile once, run everywhere: Spend less time and money on test cycles. With an XML-based abstract presentation layer, Informix Genero separates user interface development from the business logic, enabling you to use a single source code stream to support a broad range of user platforms. Supported platforms include Microsoft® Windows®, Linux®, Mac OSX and Java™ environments; HTML browsers; and PDA and ASCII devices. Informix Genero helps you enhance developer productivity and efficiency while reducing errors by minimizing the number of overall screens that must be created and maintained.

Simplify development work: Capitalize on an integrated graphical development environment to simplify development work and help drive down development costs. Informix Genero provides an intuitive suite of state-of-the-art visual, language and database-aware tools for creating application interfaces and program logic quickly and cost effectively.

Modernize existing 4GL applications

Informix Genero offers organizations with existing “green screen” 4GL applications a cost-effective means of modernizing those applications and protecting existing investments.

Depending on the amount of time and resources at your disposal, you can adopt one of two approaches:

1. **Recompile and go.** Simply recompile the existing application with Informix Genero and make minor tweaks to the user interface. Adopt this approach if you need to move your code from a character-based environment to a graphical environment in a matter of weeks.
2. **Add GUI capabilities.** Unleash the full power of Informix Genero in your 4GL code. Create a Web 2.0 experience by adding drag-and-drop capabilities, web services, business graphics and browser styles for maximum effect with a minimum of disruption. You can complete the transformation in a few months.

When modernizing older 4GL applications, Informix Genero offers a new way to render screen forms by representing them logically as an XML tree. This method enables the abstraction



of the business logic from the physical implementation of the client technology. As a result, applications can execute across multiple client technologies and fully exploit the local widget set, whether it is Windows, Linux, HTML or Java. One user might work in a Windows environment and a second might employ a browser, while a third uses a Linux or Yamaha Motif workstation.

Almost all of the language keywords in Informix Genero are the same as older 4GL, so in many cases, a simple recompilation of your old 4GL source code with Informix Genero will still work. To enhance application reliability and performance, you can use Informix Genero to modify form definition files and some parts of the code. You can reduce the number of forms and the code length, in some cases dramatically. The result will be tighter, more reliable code that executes faster.

Build business services for SOAs

Whether modernizing older 4GL applications or building new ones from scratch, Informix Genero can help you create the business services required for today's SOAs. Informix Genero facilitates effective communication among heterogeneous software assets, which is essential for creating a successful SOA. Developers work seamlessly from within the language without having to learn the plethora of communications APIs and protocols that web services entail.

Facilitate interoperation with existing software: Informix Genero does not lock you into one language or infrastructure. Add to your existing applications and infrastructure, rather than ripping and replacing them. Integrate separate applications by accessing multiple databases simultaneously with facilities built directly into the language.

Deploy distributed applications over the Internet and across firewalls: Informix Genero offers many ways to build distributed applications. Leverage web services specifically designed to work over the Internet and across firewalls using the standard HTTP protocol.

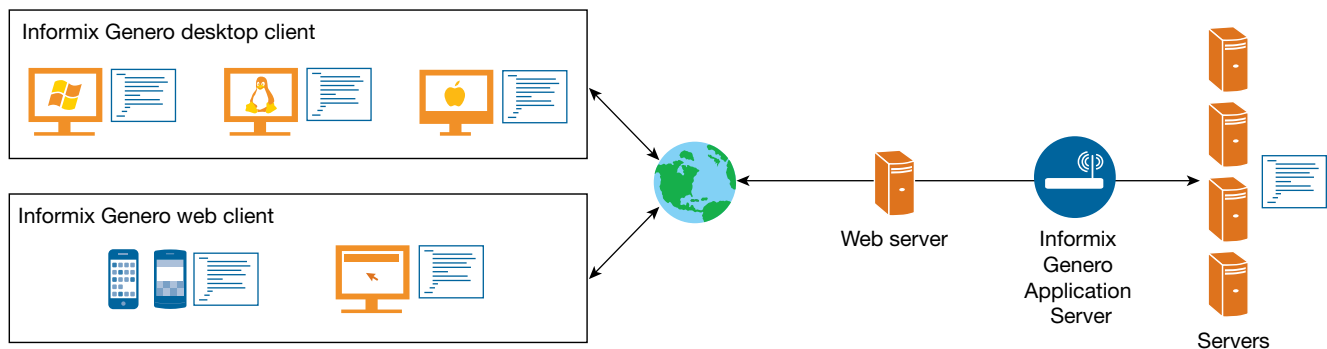


Figure 1: The Informix Genero architecture supports a flexible, secure, scalable deployment.

For more information

To learn more about Informix Genero and the Informix product family, please contact your IBM representative or IBM Business Partner, or visit: ibm.com/informix



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