



Java and IBM E-Business Solutions

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As IBM's customers move from the world of doing business as usual to one that is based on *e-business*, there are a number of new Web-based technologies available today to help them shape this new way of doing business.

Java and Network Computers are two key technologies from IBM that assist businesses in creating *e-business* value. IBM's ability to combine these Web-based technologies with customers' existing IT environment(s) allows businesses to extend their reach, lower their costs, and create new value for their customers and themselves.

Let's examine Java.

IBM is making Java real for businesses today!

What is Java ?

- More than a language, Java is a
 - *platform independent execution environment*
 - *productive component architecture*
 - *secure computing "sandbox"*
 - *link to mission critical databases and transaction systems*
- Java unifies diversified computing environments from imbedded devices to mainframes

No matter what you may have seen or heard in the past about Java, there's a lot more to Java than just another programming language. Java is a cross-platform, network-aware *computing environment* that is compact and robust.

Information Services managers know that, typically, a business operates on many platforms, and they cobble together solutions using various protocols and expensive, customized solutions to bridge mixed systems. Java solves that problem.

Java can change business for the better.

What your business is and what it does most likely won't change, but your infrastructure will evolve. That's why "changing the way you do business" is a promise you see and hear all the time. Java has the power to effect major changes. The personal computers on desks throughout your business are expensive to buy and even more costly to maintain. Java offers ways to leverage your existing investments in computers and software while minimizing the costs of implementing new systems and software.

Your software can be written once in Java, and it will run on any Java-enabled computer. The end user can access your applications from any Java-enabled client, whether that client is a PC with a browser or is a network computer. While power users in your company will still rely on the local processing power of PCs, customer service representatives, administrators, researchers, and other people who just need a computer's core business functions will find that a network computer such as IBM's Network Station is an ideal solution. It can run a browser like Netscape Navigator and retrieve, manipulate, and distribute data and information from the corporate intranet or the World Wide Web.

And as the development community creates more Java applications and applets, Java-enabled networks will give everybody on your network the tools they need to get the job done.

The Java Momentum

- **900,000 users of Java today**
 - 400,000 serious developers (up from 200,000 six months ago), growing to 600,000 by year end '97
 - Over 300,000 downloads of the Sun JDK 1.1 in the first month
- **52% of Fortune 1000 have resources on Java today**
 - 16% have deployed their first Java application
 - 42% plan to use Java in mission-critical apps by '99
- **Over 160 universities offering courses in Java**
- **Over 200 Java books in print, -surpassing the number available on C++**
- **Java tools market estimated to be \$100M in 1996, growing to \$800M by 2000**
 - IBM's VisualAge for Java (beta) has 32K downloads since 4/1 and is #2 for downloads on Jumbo shareware site out of 94K titles
- **Internet services market estimated to be over \$2B in 1996, going to \$14B by 2000**
 - 52% of spending is for Internet apps, for which Java is the natural language

A universal platform--with custom solutions

How you choose to implement Java depends on the nature of your enterprise. It's not hard to realize effective, innovative Java scenarios in retail, manufacturing, health care, sales, and other industries that use information to further business goals.

Introducing Java-based systems for businesses is by nature an evolutionary process. Java lets you keep working with your existing systems--your PCs, servers, and hosts--because it is platform-independent. So Java lowers the cost of computing, both in terms of developing and maintaining software and applications and in extending access to every computer user on your network.

Share information through the network

Why partner with IBM on Java?

- Extend mission-critical enterprise applications
- IBM OSs, middleware, and servers are Java-enabled
- AD tools for mission-critical networked applications
- Servers--best of breed
 - Durable, reliable, secure, and scaleable
 - House more than 70% of world's business data
 - Best "client" is no longer the issue

Business computing is much more than simply accessing information. You need to work with data in increasingly innovative ways. With its inherent platform independence, Java provides a perfect solution. Java-enabled middleware--which is the software on servers that helps client systems talk to host systems--sends applets on demand from network servers to the Java-enabled client Network computer or PC client enabled with Java. The client can get to the host transactional systems, such as IBM CICS, with no changes to the host code.

To find out more about IBM's Java e-business solutions, visit this site's news, education, and community sections.

If you have questions about Network Computers or Java, please [e-mail](#) me.

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