IBM ADVANCES COMPANY-WIDE AUTONOMIC COMPUTING INITIATIVE
NEW PRODUCTS, SERVICES AND ORGANIZATION OUTLINED

ARMONK, NY, October 21, 2002... One year after first challenging the IT industry to fix the problem of the increasing complexity, IBM today announced the next phase of its company-wide Autonomic Computing initiative. The initiative will provide the hardware, software and services needed by businesses to reduce complexity by making their computing systems more self-managing.

IBM announced plans for a series of products and offerings coordinated by its recently formed Autonomic Computing unit, led by Alan Ganek, former Vice President of Strategy, IBM Research. The group will integrate related activities across the company and help customers build more automated IT infrastructures to reduce costs, improve up-time and make the most efficient use of increasingly scarce support skills.

"The Autonomic Computing work going on in IBM ranges from new product enhancements and architectural roadmaps to far-reaching innovation in Research," Ganek said. "This work has proceeded so quickly that it has achieved the critical mass necessary to form a cross-company unit. IBM is working to turn the vision into reality by providing the products and services to reduce the complexity and expense of managing today’s IT infrastructures."

IBM is addressing this growing need with plans to deliver:

- A new autonomic computing deployment model designed to help customers evolve to an autonomic IT environment. This model will be used by systems engineers and IBM Global Services consultants to help guide customers through the stages of developing an autonomic infrastructure;
- IBM Global Services will form a Resilient Business and Infrastructure Solutions Practice, which will assist customers in assessing and improving the resiliency of their business and technology infrastructures;
- A set of worldwide Autonomic Computing design centers to help customers and business partners develop and test autonomic technologies;
- Products across its portfolio to help customers move towards true autonomic capabilities including:
  - WebSphere Application Server Version 5.0 will enable e-business applications to be developed, integrated and deployed within a reliable, secure and self-managing environment. New autonomic features will enable WebSphere to automatically monitor, analyze and fix performance problems, allowing customers to constantly adapt to a fluid business environment.
  - New Tivoli software designed to help customers automate the management of their information technology infrastructure. IBM announced 26 offerings with new autonomic capabilities to its systems management portfolio, including new identity and storage resource management software.
  - New DB2 database includes new self-managing and self-tuning features to help companies simplify and automate many of the tasks associated with maintaining databases. DB2 version 8 will be generally available to customers on November 21.
Next week, IBM Storage Systems Group will announce new autonomic features for its Enterprise Storage Server, code-named Shark, to allow customers to more easily configure their systems and manage their information. In addition, IBM has recently refreshed its entire disk, tape and storage networking products with autonomic features such as configuration-on-the-fly and "phone home" alerts that optimize performance and safeguard data.

IBM's PCs, which already boast many autonomic features, will soon have additional autonomic technologies now under development, such as Client Rescue and Recovery and Distributed Wireless Security Auditor (DWSA). Client Rescue and Recovery provides a set of rescue and recovery capabilities built into the basic PC that can be personalized to add protection against data loss or hard drive failure. This feature should be available by the end of 2003. DWSA allows PCs in the same location to work together to detect security holes in wireless networks, saving hours of manpower.

As the growing complexity of information systems outpaces the availability of skilled support personnel, customers are increasingly interested in the field of Autonomic Computing, in which systems are designed to be more self-managing and self-correcting, reducing the amount of intervention required.

IBM is working with multiple customers to deliver autonomic capabilities including, Deutsche Telekom T-Systems, United Energy, AHOLD, Harleysville Insurance and Korean Air.

"IBM's autonomic computing technologies and continued strategy to deliver these features in products are addressing a key challenge for us: managing explosive data growth with fewer resources," said Jim Haney, Vice President of Architecture, Whirlpool. "With IBM's autonomic technologies in the Enterprise Storage Server and Tivoli software, we've been able to implement a disaster recovery solution that is easier and less expensive to manage."

The IBM Autonomic Computing Organization will be responsible for working with the company's product development teams, IBM Global Services organization and IBM Research to expedite autonomic technologies and products to the marketplace. It will also work with business partners, customers and industry leaders to help make the best use, and drive rapid deployment, of these capabilities.

In an autonomic environment, the total IT system and its individual components -- from desktop computers to mainframes to software applications and middleware -- are self-configuring, self-healing, self-optimizing, and self-protecting. They regulate themselves and, sometimes, each other. Together, they proactively manage the entire system, and mask the inherent complexity of these activities from end users.

**About autonomic computing**

IBM is developing the industry's broadest range of autonomic computing capabilities that are being integrated across the entire computing environment. IBM has devoted substantial R&D efforts and established its intellectual leadership in this arena and is incorporating autonomic capabilities across its product portfolio.