

## Preface

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Editor

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Technology is often a key business differentiator. This is especially true for e-Businesses. Simply put, e-Business is defined as Internet-based commerce. Both start-ups and established companies alike face the challenge of doing business on the Internet, at Internet speeds.

Intel is one such company adapting to doing business at Internet speed. We are striving to make our own internal processes "e-Business-like." For example, Intel's Web-based order management system allows our customers to place orders, track deliveries, post inquiries, and obtain product and pricing updates. We also have an Internet hosting business called Intel® Online Services, Inc., whose mission is to provide second-generation web hosting to companies worldwide.

Internet data centers are the physical environments where all the e-Business magic occurs. The five papers in this issue of the *Intel Technology Journal* focus on the planning, implementation, and deployment of our e-Business technology data centers, including those data centers managed by Intel's information technology group and Intel Online Services, Inc. The first paper gives an overview of Intel's own internal e-Business data centers. It outlines the current and future direction of the technologies that are being applied to fulfill Intel's future e-Business growth. The second paper describes IP addressing issues for Internet data centers; in particular, it raises the concern about the dwindling amount of IP address space. The authors describe how IP address space concerns impact the design, implementation, and operation of Internet data centers.

The third paper discusses the process used to certify the reliability of systems and service offerings in each new data center that comes online for Intel Online Services, Inc. To meet the rapid growth in the number of e-Business applications that are being deployed and the rate at which they are being released, the fourth paper looks at release management and application landing. And, finally, the fifth paper looks at asset management and capacity planning. Asset management can mean anything from determining where a system is located to what applications are running on that system. Effective asset management and capacity planning are vital to the success of any Internet data center.