News Release

Ambriel Technologies successfully demonstrates single-stack breakthrough technology that serves as a viable solution to bridging the gap between IPv4 and IPv6.

Winchester, VA (06.20.07)

Officials of Ambriel Technologies, a technology frontrunner in the migration from IPv4 to IPv6, today announced that it has accomplished a technology breakthrough thereby successfully demonstrating a translation capability designed to allow native IPv6 hosts to communicate with IPv4 hosts without the need for proxy or a dual stack.

According to Faith B. Power, Ambriel Technologies Chief Executive Officer, this new technology is significant in that it provides the user the ability to access IPv6 and IPv4 Internet using single-stack IPv6 protocol, without having to make large capital investments in IPv6 system changes.

“Our unique translation design is truly transparent to the end user,” explained Power. “It is agnostic of what infrastructure it is on, making it compatible with encrypted and unencrypted networks, including IPv4,” she added.

As a result, Power said, the technology allows users to maintain their current IPv4 equipment life cycle schedules and migrate to IPv6 at their own pace, yet have the ability to exceed standard IPv6 capabilities without wholesale changes to their current systems.

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IPv6 capabilities that can be achieved with the technology include:

- extending one's network to remote locations.
- facilitating end-to-end secure transmissions between locations.
- modular encryption that supports 3DES, Blowfish, Twofish, AES, and most other block ciphers—all encryptions are long key and rapidly changing pairs to provide some protection against birthday and rainbow table exploits.

Currently, the prototype technology is patent-pending and has proven viable for a two-port 10/100 MB single-device mode for small office applications. Ambriel Technologies officials have indicated confidence as they embark on adapting the technology for gateway mode applications, specifically for a five-port 10/100 MB device and a five-port 10/100 GB device for high-volume throughput.

"These devices using the breakthrough technology, known as the ATX-Series, are planned for manufacturing and will possibly be available to the consumer in the next several months," said Power. "Ambriel Technologies can customize a device on an individual basis right now," she added.

Oscar Roeder, Ambriel Technologies Chief Operating Officer, indicated that development of the new translation technology was precipitated by the technology world's migration over the past several years toward the new Internet Protocol (version 6).

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Roeder pointed to several significant events that are leading the way toward migration in the U.S.:

- The Department of Defense (DoD) established an IPv6 Transition Office in March 2004, to provide overall coordination, common engineering solutions, and technical guidance for the adoption of IPv6 across the DoD.

- On August 2, 2005, the Federal Office of Management and Budget issued a mandate for all government agencies' technology infrastructures to be working toward IPv6 compliance by June of 2008.

- On May 7, 2007, the American Registry for Internet Numbers (ARIN) Board of Trustees passed a resolution advising the Internet technical community that only 19 percent of the IPv4 address space remains and that migration to IPv6 will be necessary to allow continued growth of the Internet.

"Ambriel Technologies' new proprietary transition solution allows users in both the public and private sectors to meet their time frames in being IPv6 compliant using their current equipment configurations. The benefits of IPv6 for a user include greater communications security, higher speed and accuracy, improved Quality of Service, more mobility, and simpler administration," Roeder said.

"For example, companies that are subject to regulations associated with the Sarbanes-Oxley Act of 2005 (accounting and reporting), and the Health Insurance Portability and Accountability Act of 1996 (HIPAA), related to information privacy, are especially interested in an IPv6 solution such as ours," he added.

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Ambriel Technologies, founded in July 2006, is based in Winchester, Virginia. The company is engaged in technology research and development that supports, enhances and expands the capabilities of global communications. Ambriel Technologies offers strategic top-end technology solutions and consulting that support business objectives, combined with bottom-end network engineering that provides for appropriate and often customized application of solutions in a timely and cost-effective manner. Its multi-disciplined approach makes Ambriel Technologies a “go to” company for both technology solutions and implementation. Much of the company’s attention, to date, has been focused on the design of intelligent devices and services to help bridge the gap between IPv4 and IPv6.

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