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ARIN Upgrades IPv6 Network Services with Dual Stack GigE Internet Access from NTT America

Internet Authority Leads By Example with Support from World's Leading Tier 1 Provider of IPv4 / IPv6 Transit

New York, NY – September 2, 2008 – The American Registry for Internet Numbers (ARIN), the nonprofit corporation that manages the distribution of Internet number resources, including both **IPv4 and IPv6** address space, to Canada, many Caribbean and North Atlantic islands, and the United States; and NTT America, a wholly owned U.S. subsidiary of NTT Communications Corporation and a **global IP network** services provider that operates the world's largest **Tier 1 IPv6 backbone**, today announced NTT America has provided ARIN with a dual stack over a Gigabit Ethernet (GigE) connection. The GigE connection, at speeds up to 1,000 megabits per second (mbps), running both **IPv4 and IPv6** or dual stack, ensures website and e-mail communications to and from ARIN are visible over both **IPv4 and IPv6**. Additionally, all other systems or communications ARIN operates can continue running over IPv6.

"As an organization, ARIN is in a position to both participate in **IPv6 adoption** and encourage the Internet community to do the same. This is not just a choice but a necessity as the **depletion of IPv4** address space continues," said Raymond A. Plzak, President and CEO of ARIN. "NTT America's upgrade of our network provides us not only new IPv6 services, but another opportunity to prove our commitment as an organization to using **IPv6**."

Only about 15% of the IPv4 address pool remains, and that percentage decreases every month. Today, there are people voluntarily attempting to reach mail and web servers via IPv6 connections to the Internet. Once the IPv4 address pool is depleted, people will try to reach the Internet and company contacts through IPv6 only. Therefore, any organization that has a website and communicates via e-mail must ensure those services are visible over both IPv4 and IPv6. The NTT America IPv6 transit service is ARIN's 4th IPv6 deployment and the new **IPv6-enabled circuit** is an upgrade to an existing NTT America transit circuit. ARIN has had IPv6 deployed on its network since 2003.

"ARIN is a major advocate for IPv6. As one of the five Regional Internet Registries, they have firsthand knowledge and experience with the depletion of **IPv4 address blocks** and the necessity to move to IPv6," said Michael Wheeler, vice president of Sales and Business Development for NTT America. "The Internet and engineering communities

hold ARIN in high regard and this lead-by-example upgrade to **IPv6 services** will no doubt inspire confidence that IPv6 is important, functional and useable."

The Regional Internet Registries (RIR) have collectively allocated about ten /8s of IPv4 address space each year, on average. If that trend continues unchanged, by mid-2012 ARIN and the other RIRs will no longer be able to allocate large new blocks of IPv4 address space. This scenario assumes that demand does not increase – which is unlikely, given the ever increasing number of Internet-enabled devices. This scenario also assumes no industry panic (hoarding, withholding, etc.), no Internet Assigned Numbers Authority (IANA) or RIR policy changes, and no other external factors influencing address space allocations, any of which could push the **IPv4 depletion** date earlier. Once IPv4 address space is depleted, Internet growth cannot be sustained without **adopting IPv6**.

With available /8 address blocks diminishing and annual address allocations increasing, ARIN is now actively advising the Internet community that IPv6 is necessary for any applications that require ongoing availability of contiguous IP address space. Recognizing the inevitability of IPv4 depletion, on May 7, 2007, the ARIN Board of Trustees passed a "Resolution on Internet Protocol Number Resource Availability," stating that IPv6 is necessary to allow continued growth of the Internet. NTT America embraces this call to action for service providers and others that require ongoing availability of IP address space to make immediate efforts to run dual stack within their networks.

The NTT Communications Group provides **IPv6 Gateway** services that are available globally and allow enterprises to connect to the world's only commercial-grade Global Tier 1 IPv6 Backbone operating in four continents—North America, Europe, Asia and Australia—and serving thousands of customers. In addition, NTT America has improved upon the inherent security features of IPv6 with the creation of its IntelliSecurity **IPv6 Managed Firewall** solution. The solution complements the NTT Communications Group's existing suite of managed **IPv6 Gateway Services**, and satisfies the need for increased security for IPv6 users. NTT America also provides IPv6 transition solutions through its **IPv6 Transition Consultancy**, which supports companies' and U.S. federal agencies' smooth transition to the upgraded IPv6 network with specialized products and knowledge accumulated through the NTT Communications Group's successful commercial implementation of IPv6 technology. NTT Communications Group has been directly involved with the development and **deployment of IPv6** technology since 1996.

ARIN IPv6 Information Center
More information about IPv6, including general educational materials, specific registration services information, and contact information, is available at http://www.arin.net/v6/v6-info.html. For more information, visit the website at www.arin.net, www.getipv6.info or e-mail info@arin.net.

About the American Registry for Internet Numbers:
ARIN is a nonprofit corporation that manages the distribution of Internet number resources, including Internet Protocol (IP) addresses, to Canada, many Caribbean and North Atlantic islands, and the United States.

ARIN is comprised of a seven-member Board of Trustees and a fifteen-member Advisory Council, with all members except the President elected by ARIN members for three-year terms. ARIN has a staff of fewer than 50 and an annual budget of approximately $9 million. ARIN's headquarters are located in Chantilly, Virginia.

About NTT America
NTT America is North America's natural gateway to the Asia-Pacific region, with strong capabilities in the U.S. market. NTT America is the U.S. subsidiary of NTT Communications Corporation, the global data and IP services arm of the Fortune Global 500 telecom leader: Nippon Telegraph & Telephone Corporation (NTT). NTT America provides world-class Enterprise Hosting, managed network, and IP networking services for enterprise customers and service providers worldwide. For additional information on NTT America, visit us on the Web at www.nttamerica.com.

U.S. product information regarding the NTT Communications Global IP Network and its award winning IPv6 transit services may be found at http://www.us.ntt.net, by calling 877-8NTT-NET (868-8638), or by emailing sales@us.ntt.net.

About NTT Communications Corporation
NTT Com delivers high-quality voice, data and IP services to customers around the world. The company is renowned for its diverse information and communication services, expertise in managed networks, hosting and IP networking services, and industry leadership in IPv6 transit technology. The company's extensive global infrastructure includes Arcstar™ private networks and a Tier 1 IP backbone (connected with major ISPs worldwide), both reaching more than 150 countries, as well as secure data centers in Asia, North America and Europe. NTT Com is the wholly owned subsidiary of Nippon Telegraph and Telephone Corporation, one of the world's largest telecoms with listings on the Tokyo, London and New York stock exchanges. Please visit www.ntt.com.

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