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Press Releases

Hitachi and WIDE Project Succeed in Trans-Pacific 10-Gigabit Ethernet

Tue Jun 22, 2004 08:07 AM ET

Hitachi and WIDE Project Succeed in Trans-Pacific 10-Gigabit Ethernet Communication Test Using 1

BRISBANE, Calif.--(BUSINESS WIRE)--June 22, 2004--The WIDE Project (Representative: Professor University, Principal Investigator: Associate Professor Dr. Akira Kato of The University of Tokyo), and & Chief Executive Officer, Information & Telecommunication Systems: Kazuo Furukawa, hereinafter r supported by the Pacific Northwest Gigapop and the University of Washington, have succeeded in ac Gigabit Ethernet (10 GbE) communication test across the Pacific Ocean using 10GBASE-EW(*1) ove TransPacific Link connecting Tokyo and Seattle (approximately 4800 miles or 7,700 km).

In the test, Hitachi GS4000-160E Gigabit switches were located at data centers in Tokyo (Ote-machi, Seattle, Washington. Both sites succeeded in opening direct communication using 10 GbE between 1 connecting the 10GBASE-EW interface installed in the GS4000-160E to the IEEAF TransPacific Link

As expected, no error frames were detected during 10 hours of testing. The test was based on a pack experiment using two UNIX-based PCs, which were connected to the GS4000-160E in Tokyo and Se

The OC-192 line used in this test was a standard SONET line provided by Tyco Telecommunications Company), Morristown, New Jersey, to the IEEAF. The task of connecting it in Tokyo and the U.S. w Project, the Pacific Northwest Gigapop, and University of Washington. Conventional IP communicatio SONET/SDH networks requires a router equipped with a POS (Packet over SONET) interface. The 11 this test was developed by converting the physical interface portion of standard 10 GbE into SONET (format. This technology makes it possible to construct a wide-area network that is more cost effective built with OC-192 SONET interfaces. This test clearly proves the feasibility of using 10GBASE-EW for network communications.

In recent years, there have been many remarkable improvements in Ethernet technologies. In Japan, only in traditional enterprise LANs, but also in high-speed, low-cost, wide-area Ethernet networks (W/ traditional construction of a wide-area Ethernet network required several kinds of expensive routing d that for WAN services, 10GBASE-EW will support high-performance and stable wide-area Ethernet n lower cost.

The successful test paves the way for accelerated deployment of broadband services for internationa providing further proliferation of multimedia applications, such as high-definition video and audio, and (Storage Area Networks) in storage systems.

About WIDE Project:

The basic goal of the WIDE (Widely Integrated Distributed Environment) project is to establish a distri to all people and societies through connections to computers all over the world, and pursue key issue necessary to achieve it. URL: <http://www.wide.ad.jp/index-j.html>

About Hitachi GS4000 series of Gigabit switches:

The Hitachi GS4000 series was created to help build All-Ethernet networks. With its superior levels of configuration flexibility, as well as hardware-based precision Ethernet QoS, the GS4000 transmits imq and reliably, even in environmentally marginal or high-traffic environments. Designed into the GS4000 processing capacity to deal with the demands of 10G Ethernet, and Hitachi's technology cultivated th of reliable, high-performance switches and routers. URL: <http://www.internetworking.hitachi.com>.

About Pacific Northwest Gigapop (PNWGP)

PNWGP is the Northwest's Next Generation Internet, advanced applications cooperative, testbed, poi home to the Seattle node of the Pacific Wave International Peering Service. PNWGP and Pacific Wav high-performance international and federal research networks with universities, research organization



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R&D and new media enterprises throughout the U.S. Northwest, Canada, Australia, Japan, Korea, and
<http://www.pnw-gigapop.net>

About the University of Washington

The University of Washington is one of the world's top research universities. Perennially among the top institutions in peer-reviewed research activities and related competitive contracts and grants, and with programs, the UW is a university which truly embodies the ideals of "Learning @ the Leading Edge" (<http://www.washington.edu>)

About the IEEAF

The Internet Educational Equal Access Foundation (IEEAF) is a non-profit organization whose mission is to increase the capacity and equipment and make them available for use by the global research community. Through partnerships and alliances between government, private sector entities, educational institutions, and other non-profit organizations, IEEAF fosters global educational collaboration and equitable access to "Global Quilt". The IEEAF Transpacific Link is the second 10Gbps transoceanic link provided through IEEAF TransAtlantic Link, connects New York City and Groningen, Netherlands, and has been operational. For more information about IEEAF, visit <http://www.ieeaf.org/>.

About Hitachi

Hitachi, Ltd., (NYSE: HIT), headquartered in Tokyo, Japan, is a leading global electronics company with 326,000 employees worldwide. Fiscal 2003 (ended March 31, 2004) consolidated sales totaled 8,632 billion yen. The company offers a wide range of systems, products and services in market sectors including electronic devices, power and industrial systems, consumer products, materials and financial services. For more information on Hitachi, please visit the company's Website at <http://www.hitachi.com>.

Notes:

*1) One of the protocols for 10 Gbps Ethernet established by 10GBASE-EW IEEE (Institute of Electrical and Electronics Engineers), which specifies the data-forwarding speed to 9.2942 Gbps.

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Ethernet is a registered trademark of Xerox Corporation and Fuji Xerox Co., Ltd. All other brands and trademarks or registered trademarks of their respective holders.

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CONTACT: Hitachi America, Ltd.

Branding & Corporate Communications Group

Gerard F. Corbett, 650-244-7900

gerard.corbett@hal.hitachi.com

or

Hitachi America, Ltd.

Branding & Corporate Communications Group

Matt Takahashi, 650-244-7902

masahiro.takahashi@hal.hitachi.com

or

WIDE Project - N109, Keio Research Institute at SFC

5322 Endo, Fujisawa-shi, Kanagawa 252-8520, Japan

Tel:+81-466-49-3618 (C/O KEIO Research Institute at SFC)

Fax:+81-466-49-3622

E-mail: press@wide.ad.jp

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