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News Release

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## **HITACHI AND OFS DEMONSTRATE TRIPLE PLAY SERVICES OVER ACCESS ADVANTAGE™ SYSTEM FEATURING ALLWAVE® OPTICAL FIBER**

***Full-spectrum, low-loss cabling system complements PON architecture to maximize ROI for service providers***

**FTTH 2004 Conference, ORLANDO, FL, October 4, 2004** - At the 2004 Fiber to the Home (FTTH) Conference here, Hitachi Telecom (USA), Inc. and OFS are joining forces to demonstrate triple-play services over a 20km OFS Access ADVANTAGE™ System.

The efficient single fiber demonstration is being conducted between Hitachi's booth, No. 707, and the OFS booth, No. 106. Head-end video equipment and the Hitachi AMN1200 Optical Line Terminal (OLT) are located in the Hitachi booth. OFS AllWave fiber cable connects through LC connectors and Blue Tiger™ jumpers to a 1x32 splitter located in the OFS booth, then to Hitachi Optical Network Terminals (ONTs) located in both companies' booths. The OLT-to-ONT distance is 20 km.

The Access ADVANTAGE System enables low power, low cost support of triple play services including full channel analog video. The demonstration consists of OFS' AllWave® fiber cable, low-loss LC connectors, low-loss adapters, and bend insensitive Blue Tiger™ LC jumpers connecting to an AMN1200 low-cost B-PON OLT in Hitachi's booth. The OLT transmits multiple services to Hitachi's AMN1200 Single Family Unit (SFU) and AMN1200 Ethernet Terminal Unit (ETU) located in both Hitachi's booth and OFS' booth. RF Analog video is broadcast to all end customers using WDM technology. Broadcast IP video is encoded onto the PON data stream to demonstrate the high bandwidth capability of the network. Also, native POTS telephony is provided between the booths using Hitachi's SFU Optical Networking Terminals (ONTs). A 1:32 splitter divides the fiber so that all four applications can be shared at once to four locations in the two booths with the flexibility to expand to 32 end users.

Hitachi's AMN1200 SFU supports legacy triple-play – analog “POTS” voice, data, and RF video services. Data, IP video and voice signals are transmitted on a 1490nm wavelength from the AMN1200 OLT. The RF video signal is transmitted by a video OLT on a 1550 nm wavelength, combined onto the OFS AllWave fiber with the 1490 nm signal and delivered to the AMN1200 SFU ONT. The SFU demultiplexes the wavelengths and provides native interfaces for data, RF video and POTS voice. The AMN1200 ETU supports 10/100 Mbps Ethernet data and Internet access. With a connected hub, the ETU supports IP video, Internet access and Voice over IP.

The Access ADVANTAGE system is the first end-to-end FTTP optical fiber cabling system that enables lowest cost and extended reach for current and future PON and point-to-point applications, for analog and digital video, voice, and data. It features cable designs for multiple right of ways, and offers OFS DryBlock<sup>®</sup> technology to speed installation while helping to reduce costs. A key component, of the Access ADVANTAGE System is AllWave fiber that opens the full transmission spectrum to offer 50% additional bandwidth that can be used for current and future applications. It also features low loss splitters, Blue Tiger jumpers to minimize bending loss in dense patching fields, and the industry's best selling and lowest loss small form connector – the LC connector, invented by OFS.

#### **About Hitachi Telecom (USA), Inc. and Hitachi, Ltd.**

Hitachi Telecom (USA), Inc., a subsidiary of Hitachi America, Ltd., develops, manufactures and markets telecommunications equipment for the U.S. market. The company offers a full suite of access products such as PON, as well as ultra high-speed optical networking equipment for long haul transport.

Hitachi America, Ltd., a subsidiary of Hitachi, Ltd., markets and manufactures a broad range of electronics, computer systems and products, consumer electronics, and provides industrial equipment and services throughout North America. For more information, visit [www.hitachi.us](http://www.hitachi.us).

Hitachi, Ltd. (NYSE: HIT), headquartered in Tokyo, Japan, is a leading global electronics company, with approximately 326,000 employees worldwide. Fiscal 2003 (ended March 31, 2004) consolidated sales totaled 8,632.4 billion yen (\$81.4 billion). The company offers a wide range of systems, products and services in market sectors including information systems, electronic devices, power and industrial systems, consumer products, materials

and financial services. For more information on Hitachi, please visit the company's website at [www.hitachi.com](http://www.hitachi.com).

## **About OFS**

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTx and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

For more information, please visit [www.ofsoptics.com](http://www.ofsoptics.com).

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