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News Release

OFS, WAVE 7 OPTICS AND MICROSOFT DEMONSTRATE INDUSTRY-FIRST ONLINE GAMING APPLICATIONS OVER A FTTP NETWORK

Xbox Live™ and Triple Play Services Enabled by Access ADVANTAGE™ Fiber-to-the-Subscriber System

FTTH Conference, New Orleans, Booth 120, October 7, 2003 - OFS, designer, manufacturer and supplier of leading edge fiber optic products, with Wave 7 Optics, a leading provider of optical access equipment, and Microsoft Corporation, today announced the world's first demonstration of a live online gaming application, simultaneous with voice, video and data services, over a Fiber-to-the-Premises (FTTP) network. The demonstration is enabled by OFS' Access ADVANTAGE FTTP System and Wave 7 Optics' Last Mile Link™ (LML) single fiber optical access solution. Show attendees can play an Xbox Live game and simultaneously access the Internet, talk using the Xbox Live Communicator headset, and view broadcast video to experience the power of optical access networks.

"The tremendous requirements of gaming applications has helped drive ever-faster microprocessors, and their ever-increasing demand for bandwidth will help drive the requirements of access networks. This first live demonstration of truly converged "beyond-broadband" levels of bandwidth showcases the unique potential of our Access ADVANTAGE FTTP System and how it's meeting the vast broadband demands for higher bandwidth, revenue generating services, scalability and reliability," said Paul Neuhart, President, Optical Fiber, Cable and Connectivity Division, OFS.

The configuration consists of Wave7 Optics' LML advanced optical access system supporting converged voice, data, broadcast video, and the Xbox Live service, over the Access ADVANTAGE FTTP system. Wave7 Optics' Last Mile Core (LMC) equipment is connected via OFS' AllWave® fiber, low-loss LC connectors, low-loss adapters, and low-loss Blue Tiger™ LC jumpers to Wave 7 Optics' Last Mile Gateways (LMGs) that each serve a subscriber. It effectively doubles the supported distance between the LMC and LMG. This

tremendous increase in reach over other fiber and connectivity solutions demonstrates the obvious benefits of utilizing the low-loss Access ADVANTAGE FTTP system with the Wave7 Optics' LML system.

Xbox Live can take advantage of very high-speed FTTP optical access networks to deliver enhanced gaming experiences for subscribers. With access speeds over 100 times faster than conventional broadband solutions, FTTP can enable lightning fast Xbox Live game experiences.

"We are pleased to partner with OFS and Wave 7 Optics on this first live online gaming demonstration over a fiber network, and to support the deployment of FTTP to pave the way for future high-speed, broadband applications," said Mike Lucero, Xbox Live Group Product Manager.

The Access ADVANTAGE system is a complete FTTP cabling and connectivity system that features the AllWave Full Spectrum ADVANTAGE fiber offering 50% more bandwidth that can be used for premium residential services such as instant on-demand HDTV.

"As advanced services develop and bandwidth requirements increase, the need for cost-effective scalable optical systems will become imperative," said Emmanuel Vella, Chief Marketing Officer at Wave7 Optics. "Our infrastructure will support everything subscribers want to do now and into the future with solid economics to justify deployment today."

The Wave7 Optics' LML advanced optical access system provides video (CATV and digital, including IP streaming), high-speed data and telephony services (IP-based or circuit-based) to subscribers with dedicated and on-demand symmetrical data rates of up to 500 Mb/sec, all on a single fiber. The LML architecture is standards-based, cost-competitive with current HFC implementations, and includes industry-leading Quality-of-Service (QoS) mechanisms for enhanced features.

About Wave 7 Optics

Wave7 Optics, Inc. is a market leader in the fiber-to-the-home and business (FTTX) optical access market. The Last Mile Link™ optical access system effectively overcomes traditional cost and implementation barriers to the bandwidth capacity bottleneck in the last mile of communications networks. Wave7 Optics' innovative approach to optical access is a generation ahead of competitive PON technologies in both cost and capability. The Last Mile Link product suite provides solutions that specifically address residential, business and

multi-tenant customers with a unifying architecture providing a complete triple play of voice, video, and data services.

Additional information about Wave7 Optics is available at www.wave7optics.com or contact emmanuel.vella@w7optics.com.

About Xbox Live

Xbox Live, which launched in the United States Nov. 15, 2002, allows gamers to play multiplayer Xbox games with other gamers worldwide via a broadband connection. With a built-in hard drive and Ethernet port, the Xbox console is the only video game system built from the ground up for online gaming. Xbox Live enables gamers to easily find their friends; talk to other players during gameplay through the Xbox Communicator headset; download current statistics and new levels and characters to their Xbox hard drive; and play online -- all exclusive features to Xbox Live .

About Microsoft

Founded in 1975, Microsoft (Nasdaq "MSFT") is the worldwide leader in software, services and Internet technologies for personal and business computing. The company offers a wide range of products and services designed to empower people through great software -- any time, any place and on any device

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.

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