

## Press release

**Press contact:**

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### Redundant fibers offer more protection against outages: Optical gear boosts availability

**Wessling, 10. January 2008; High availability of critical fiber transmission demands for protection equipment. A very cost effective way is to use layer 1 optical protection systems rather than using doubled transmission equipment.**

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*LL4000 Platform for differne kinds of optical protection mechanisms*

High-bandwidth networks use fiber links to carry large volumes of mission-critical traffic. Outages often result in large financial losses, so carriers and enterprises have used a variety of mechanisms, such as SONET rings in the core and MPLS in the access network, to boost availability. A new protection mechanism based on all-optical switching offers a more cost-effective solution for high-speed links, however. Protection from fiber failures is achieved through the use of redundant fibers. When the primary link fails, traffic is rerouted to an alternate link. To use the redundant fibers, operators have two options: use two sets of equipment at each end (for example, two router line cards at each end of the link), or use a single set of equipment and route traffic to the appropriate link through the use of a protection switch. High data-rate line cards are fairly expensive, whereas protection systems typically cost much less, making their use very cost-effective.

The new protection technology is based on optical switching modules. Optical signals are routed to one of the fiber links without undergoing any electro-optical conversion. Unlike other technologies, optical switches don't use expensive signal conversion circuitry, greatly reducing the cost, space and power consumption of this solution.

#### **About Laser 2000:**

Since 1986 Laser 2000 GmbH is a supplier of high technology in the field of lasers, micromachining equipment, optics, and fiber optical equipment.

In the fiber optics field Laser 2000's offering comprises a large variety. Starting from optical patchcords, attenuators and transceivers like GBICs and SFPs it ranges to easy to deploy CWDM and DWDM solutions. Furthermore aggregation and optical transport for access, metro and regional networks are a fix part of the portfolio. With different quality partners Laser 2000 is able to provide the right solution for the it's customers. As Laser 2000 has very high expertise in the optical domain they can even taylor dedicated solutions for special needs.

Moreover Laser 2000 offers tooling for installers and operators of fiber optical networks. Fusion splicers, microscopes and connector cleaning tools are part of the portfolio as well as test and measurement equipment for both field and lab applications.

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