Protection against Manipulation: MICROSENS Management Modules Make Optical Networks Secure

PRESS RELEASE

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15 January 2015 Hamm – Optical networks, which are set up with the WDM platform MSP 1000 by MICROSENS, are now working in an even more secure mode. For this purpose, the company presents two new network management modules, NM3 and NM3+.

Particularly if the transfer of sensitive data is concerned, it is important to protect the network configuration against unauthorised and unwanted access attempts. The two new MICROSENS modules even offer several options to fulfil this task: All access attempts to the configuration are made over secure, encrypted protocols, such as SSH, HTTPS, or SNMPv3. Each access attempt requires the login to the system with valid user authorisation. The user model permits the assignment of permissions on several authorisation levels, in analogy to SNMPv3. In addition, the integrated RADIUS client allows centralised user authentication. Moreover, MICROSENS also supports TACACS+ and the use of access control lists.

According to the modular concept of the MSP 1000 platform, MICROSENS also offers two variants in the context of the network management modules: The NM3 module with a 4-port Gigabit Ethernet switch allocates one slot in the chassis. The NM3+ accommodates six Gigabit Ethernet ports in total, one USB extension port, and two potential-free digital inputs and outputs. Due to the additional interfaces, it allocates two module slots. Both modules can be connected to a console over a serial RS-232 connection.

In addition to the protection against manipulation, MICROSENS modules also offer a high degree of failsafe performance. Both the NM3 and NM3+ modules offer two SFP slots. As a particularly advantageous feature, they permit the combination of the management systems of several MSP 1000 platforms. They can be interconnected in cascaded mode and also in a fail-safe ring topology. If a node breaks down, the network management re-routes the traffic and ensures that all other nodes remain reachable in an almost uninterrupted mode. On the hardware end, an integrated protection mechanism additionally detects and prevents undesired network loops (loop protection).

If a component has to be replaced nevertheless, the system state of the management module can be transferred easily. The complete information, such as configuration, scripts, firmware, or optional MAC addresses, is stored on a removable microSD card, which can also be used in another system without making any modifications and without the necessity of central interference via the management software.

You can find this press release along with background information and high-resolution images under: www.microsens.de

About MICROSENS
Since 1993, MICROSENS GmbH & Co. KG has been standing for fiber optic solutions. As one of the pioneers of fiber optic transmission systems, the internationally active company covers all performance sectors of fiber optic technology. Starting with solutions for future-proof office networking and high-availability in rough environments, the product portfolio ranges from large-scale site networking and interconnection of computing centers up to high-performance Wide Area Networks (WANs). In all these fields of application, MICROSENS provides and ensures efficient, fast, and secure data transfer. As an internationally successful manufacturer, MICROSENS distributes its products on a worldwide scale. In addition to the company headquarters in Hamm in Westphalia (Germany), MICROSENS also has sales subsidiaries in France and Poland to optimally fulfil the diverse requirements of its customers on-site.

About euromicron
euromicron AG is an all-in solution provider for communications, transmission, data and security networks. The network infrastructures of euromicron integrate voice, image and data transfer in wireless mode, via copper cabling, and by means of fiber optic technology. euromicron develops its market-leading applications, such as security, control, health care or surveillance systems, on the basis of these future-safe network infrastructures.
Based on the competence as a developer and manufacturer of fiber optic components, euromicron AG constitutes a company group with a strong growth and revenue potential. The company is listed at the stock exchange and is marked by its nature as a medium-sized enterprise. It focuses on operative growth, integration, as well as on market penetration, internationalisation, and expansion. Further information at www.euromicron.de