



Press Release

secunet and Mellanox Develop High Performance Layer 3 Encryption Solution

[Essen/Germany, 23 March 2017] secunet has collaborated with Mellanox Technologies to develop a SINA L3 Box S solution with extraordinary high data throughput. This allows secunet to offer SINA L3 Box technology with encryption performance of 100 GBit/s, enabled by Mellanox's Innova IPsec network adapter. The SINA technology is a development by secunet on behalf of the German Federal Office for Information Security.

Based on load distribution from the main CPU onto the network adapter (IPsec Offloading), the system achieves performance values exceeding the previous capacity of the SINA L3 Box S by a factor of 20.

The Mellanox Innova IPsec adapter addresses the growing need for security and "encryption by default". The Innova IPsec adapter offers multiple integrated crypto and security protocols and performs the encryption of data-in-motion, freeing up costly CPU cycles.

secunet showcases during CeBIT exhibition in Hanover, Germany, a prototype system that already reaches a throughput of 200 GBit/s. Networks with large data volumes and data centers will significantly benefit from this new solution. In the course of the joined development, secunet and Mellanox integrated the Innova IPsec network adapter into the Linux kernel.

secunet combines its 20 years of experience in the IT security sector with the intelligent interconnect technology from Israel-based semiconductor manufacturer Mellanox, who is delivering high speed components for demanding networks since more than 18 years.

"secunet follows with this joined development initiative the recommendations of the German Federal Ministry of the Interior, the German Federal Office for Information Security and the German



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Ministry of Defense, by partnering with international corporations in the field of high security", explains Dr. Rainer Baumgart, CEO of secunet Security Networks AG, the cooperation with Mellanox.

"The exponential growth of data and the need to secure data everywhere, along with the ability to secure and protect data in transit to and from the data center, demands the most scalable and efficient interconnect solutions", said Eyal Waldman, President and CEO of Mellanox Technologies. "The powerful combination of secunet and Mellanox cyber security competencies are building the foundation for new solutions in the security market."

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About secunet

secunet is one of the leading German providers of high-quality IT security. Over 400 experts work in the areas of cryptography, e-government, business security and automotive security, and develop innovative products in these fields in addition to highly secure and reliable solutions. Many DAX companies as well as numerous authorities and organisations are among secunet's national and international customers, which total over 500. secunet is IT security partner of the Federal Republic of Germany and partner in the Alliance for Cyber Security. secunet was founded in 1997 and achieved sales of EUR 115.7 million in 2016. secunet Security Networks AG is listed on the Prime Standard of the German Stock Exchange. Further information can be found at www.secunet.com

About Mellanox

Mellanox Technologies (NASDAQ: MLNX) is a leading supplier of end-to-end Ethernet and InfiniBand intelligent interconnect solutions and services for servers, storage, and hyper-converged infrastructure. Mellanox intelligent interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance. Mellanox offers a choice of high performance solutions: network and multicore processors, network adapters, switches, cables, software and

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silicon, that accelerate application runtime and maximize business results for a wide range of markets including high performance computing, enterprise data centers, Web 2.0, cloud, storage, network security, telecom and financial services.

More information is available at www.mellanox.com.

