

**Mark Sandstrom** is a business and technology strategist with experience in high technology industries since 1995. Prior to founding ThroughPuter and developing its dynamic parallel execution technology, he became most well known for innovating the Adaptive-Mesh Future Internet model that effectively addresses each of the pressing scalability, performance and security shortcomings of the initial generation of the Internet.

Sandstrom started his professional career at Tellabs, Inc., developing ASICs and FPGAs for network systems sold to telecom service providers. He then worked in ASIC/FPGA development and hardware, system and network architecture roles for VC funded startup companies of Cyras Systems, Inc. (acq. CIENA), Turin Networks, Inc. (acq. Force 10, then Dell) and Maple Optical Systems, Inc., developing products that aimed at enabling communications service providers to efficiently offer variable mixes of circuit and multi-protocol packet based services. After that, Sandstrom founded Optimum Communications Services, Inc. (OCS), a developer of Future Internet infrastructure technologies.

At OCS, Sandstrom led the innovation and engineering to deliver a network with a capability for realtime data traffic load adaptive network physical layer capacity allocation based revenue generating traffic throughput maximization. This physical layer solution for the Future Internet challenges, the Adaptive-Mesh networking model, achieves in the order of 10-times architectural cost-efficiency advantage over any networks without traffic load adaptive physical layer, as well as provides several essential QoS, operational streamlining and security benefits. OCS received executive and technology leadership level interest in its Adaptive-Mesh solution by several major communications service provider customer prospects, conducting network case studies and cost-efficiency analyses with several of them as well as signing network trial agreements with two customer/partner prospects. For further info on OCS, please review <http://www.ocsipholding.com/>.

After OCS' technology and IP assets were put for sale in 2010, Sandstrom has done business strategy consulting for supercomputing system software vendor ET International, Inc. (a spin-off from University of Delaware), and recently also for hardware neural networks and machine learning applications company CogniMem Technologies Inc.

In 2012, Sandstrom started a parallel cloud computing PaaS venture: <http://www.throughputer.com/>.

Sandstrom holds M.Sc. in Electrical Engineering degree from Helsinki University of Technology, Finland and Executive MBA degree from Golden Gate University, San Francisco. He is a Patent Agent registered to practice before the USPTO, as well as a Certified Management Accountant.

Sandstrom is the primary inventor in 37 US and UK patents granted for innovations in networking and computing throughput optimization and management system streamlining.