PRESS RELEASE

2550100 ALLIANCE

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Hot Storage Technology Comes Alive in NVMe Solutions Lab

24 vendors in action at Flash Memory Summit's newest attraction

Santa Clara, CA - August 8, 2016 **–** The 2550100 Alliance, a group of companies working together to bring solutions to market based on emerging 25, 50 and 100Gb Ethernet technology, is hosting the NVME Solutions Lab at Flash Memory Summit. From August 9-11, over 4,000 attendees will experience a broad range of new server, storage and networking products with NVMe inside. Twenty-four companies will be exhibiting in the Solutions Lab with a range of products including SSD controllers, SSDs, PCIe cards, RDMA NICs, servers with NVMe SSD inside, and all flash arrays connected via NVMe Fibre Channel and Ethernet fabrics.

"The non-volatile storage industry is at a major technology inflection point which is leading to a new generation of NVMe-based storage products," said Frank Berry, CEO and Senior Analyst, IT Brand Pulse. "The premier flash memory event of the year will be highlighted by the NVMe Solutions lab where attendees will be able to see and touch 24 examples of the new technology".

Select NVMe Solutions Lab Exhibitors

A3 Cube, Aclectic Systems Inc., Broadcom, Chelsio, Envemio, HPE, Huawei, Intel, Kaminario, Mangstor, Mellanox, Memblaze, Lite-On Storage, Red Hat, Samsung, Seagate, Silicon Motion, Super Micro Computer, Inc., QLogic, Teledyne LeCroy, Microsemi, Micron Technology, and One Stop Systems.

NVMe Solutions Lab Exhibits

Broadcom - Emulex Fibre Channel host bus adapters (HBAs) by Broadcom are at the forefront of end-to-end NVMe solutions for Enterprise datacenters with the release of the new NVMe over Fibre Channel solution that is sampling today. Broadcom provides NVMe technology for every component in the datacenter, from SSDs to NVM over Fabrics. Broadcom is a key partner of major cloud providers and OEMs that build storage and networking solutions, and as the adoption of NVM storage grows across the data center, Broadcom will continue to develop and provide leading-edge NVMe products.
Broadcom offers an extensive portfolio of NVMe products including : 1) NVMe controllers that have greater than 50% market share; 2) the industry's first NVMe/SAS/SATA controllers, RAID, and HBA adapters; 3) PCIe switching; 4) NVMe server/JBOF management software; 5) PCIe switches; 6) RoCE

solutions, and 7) NVMe over Fibre Channel. Broadcom continues to spearhead NVMe technology and is the ideal partner for developing and leveraging new NVMe solutions for your customers.

Chelsio - Chelsio's iWARP RDMA provides a plug-and-play NMVe over fabric solution for connecting high performance SSDs over a scalable, congestion controlled and traffic managed fabric, with no special configuration needed. Chelsio will also be displaying T520-CR and T580-CR adapters which enables concurrent support of NVMe over RDMA Fabrics and established networked block and file storage.

Envemio - Envemio will be providing a preview of its Ethernet modules for NVMe-enabled drive bays in NVMe-capable servers. The advantage of this approach is that it allows servers to provide front-panel I/O for a variety of vertical markets and technology segments that require expanded networking capabilities including IoT, Storage, Cloud, Telco/NFV, Hyperconvergence, Embedded, Defense, Oil & Gas.

Huawei - ES3000 V3, high performance NVMe PCIE-SSD Card and Drive.

Kaminario - The all-flash storage company Kaminario, will showcase its innovative storage solution for the on-demand world. Kaminario K2 is the world's only storage system that delivers the predictability needed to handle the highly unpredictable world of modern businesses. Its flexible all-flash storage platform allows customers to cost-effectively scale capacity and performance to support their ever-changing business –seamlessly, on-demand and with no disruptions. Its software defined architecture is designed for flexibility and will seamlessly extend to support NVMe shelves when the technology becomes enterprise ready, eliminating performance bottleneck, including network connectivity to the all-flash storage array.

Lite-On Storage - EP2 NVMe M.2 PCIe and EP2 U.2 NVMe SSD.

Mangstor - Mangstor's NX6320 Storage Array will be demonstrated live in IT Brand Pulse's NVMe SolutionsFest Lab, providing FMS attendees the opportunity to see NVMe products running live under a series of test suites. The NX-Series NVMe over Fabric (NVMf) Storage Array use RDMA network access to bring the low latency benefits of NVMe to a shared storage environment enabling flash memory acceleration to be deployed centrally for multiple server access. The NX6320 Storage Arrays are the first-compliant to the newly ratified NVMf spec and last year's Best of Show winner at FMS as 'the most innovative flash memory technology.' Mangstor arrays appear to host systems as Direct-Attached Storage and scale linearly as arrays are added delivering leading bandwidth and IOPS at extremely low and consistent latencies and rated 'the best performance in shared storage' by StorageReview.com.

Mellanox and Micron - NVMe over Fabrics (NVMf) demonstration showing heterogeneous NVMf clients connecting to the same NVMf storage target.

Microsemi - Microsemi is a premier supplier of innovative semiconductor, board, system, software and services for enterprise and hyperscale data centers, enabling high performance, secure, low power and reliable infrastructure for scalable deployments. Microsemi technologies drive innovation in applications including storage systems, server storage, NVM solutions, Ethernet switching, rack scale architecture, data center interconnect, network timing and power subsystems. Building on a track record of technology leadership, Microsemi's data center infrastructure portfolio is transforming networks that connect, store and move big data, while lowering the total cost of ownership of deploying next generation services. The portfolio includes high performance NVMe storage controllers, NVRAM drives, SAS/SATA host bus adapters and RAID controllers enabling high capacity storage architectures, high density PCIe switching and firmware for rack scale architectures, PCIe re-drivers, and Ethernet PHYs for intra-rack connectivity. Microsemi's product portfolio also includes clock and power management, IEEE1588 integrated circuits (ICs) and NTP servers for synchronization across the data center, as well as field programmable gate arrays (FPGAs) and system-on-chip (SoC) FPGAs to perform secure system management of servers and storage. For more information, visit http://www.microsemi.com/applications/data-center.

One Stop Systems - The high-performance, enterprise-class FSAn-4 and the field-ready FSAn-4R provide a new level of performance for applications such as real-time HPC, analytics, big data and high speed data recording. The FSAn-4 is used in the datacenter for accelerating high-performance databases, Hadoop clusters and HPC applications with large data sets. The FSAn-4R rugged version is deployed in broadcast trucks, ground stations and surveillance aircraft. The FSAn-4 family provides a quantum leap in performance and application flexibility because it uses the highest performance PCIe NVMe flash instead with up to PCIe 3.0 x8 lanes for double the 2.5" NVMe bandwidth, while allowing all of the advantages of 2.5" drives, such as hot swap and front loading.

Red Hat - Red Hat will showcase how Red Hat Ceph Storage can enable multiple MySQL and MariaDB database workloads over NVMe SSDs within an OpenStack environment. Ceph has emerged as the preferred block storage for OpenStack cloud deployments for scale out, open source capacity-oriented workloads. Collaborating with Percona, an industry leader in optimizing open source database environments, Red Hat will also demonstrate how Red Hat Ceph Storage is differentiated in these high IOPS workloads.

Seagate - Seagate will be demonstrating its broad portfolio of NVMe SSDs.

Silicon Motion - SM2260 PCIe Gen3 x4 NVMe 1.2 SSD Controller supporting 3D MLC and TLC NAND.

Super Micro Computer, Inc. - ULTRA Server Line featuring a 1U server with 10 NVMe drives, and a 2U Server with 24 or 48 NVMe drives.

QLogic - The live end-to-end NVMe-oF with Ethernet demonstration showcases the benefits of QLogic's latest FastLinQ™ 25Gb Ethernet (25GbE) Adapters with RDMA over Converged Ethernet (RoCE).

Teledyne LeCroy - Demo will show analysis of advanced protocols including NVMe and NVMe over Fabric.

About the 2550100 Alliance

The 2550100 Alliance was formed to pick-up where the 25G Consortium and Ethernet Alliance leave-off, by facilitating collaboration in bringing solutions to market. The backbone of the 2550100 Alliance is a set of programs designed to: 1) Assist hardware and software vendors with early access to 2550100 networking products, and to work together efficiently to develop solutions; 2) Assist channel partners with online and hands-on training, and with early access to 2550100 networking products, so they may guide their customers through the migration and 3) Assist IT professionals with education, hands-on training and early access to 2550100 networking products needed to evaluate and deploy the new technology. Learn more about the 2550100 Alliance at www.2550100.com.