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TITLE
STT-MRAM: Flash's Perfect Partner For High Performance Storage

ABSTRACT

Rapid advancements in non-volatile memory technology aim to fix the performance-related enterprise storage issues that currently exists with today's disk-based, flash-based and combination (hybrid disk/flash) solutions. One key NVM technology in development for storage applications is Spin Torque Transfer (STT)-MRAM, which possesses the high performance characteristics of volatile memories such as DRAM and SRAM, but also brings much lower power requirements and the lower cost benefits of NAND flash memory. A review of STT-MRAM features and capabilities will show that it is an ideal complementary memory technology to employing NAND flash in high performance storage arrays. In the future, enterprise storage arrays will strike an optimal balance of STT-MRAM and flash to maximize performance (higher IOPS and lower latency), improve reliability, availability and serviceability (RAS), increase scalability and drive down the dollar per gigabyte cost. This new class of solid state flash array with a hybrid flash/STT-MRAM core will best meet the critical capabilities sought by IT leaders to solve their enterprise storage issues.

BIOGRAPHY

Bridget Warwick joined Avalanche in September 2014 as vice president of marketing, bringing more than 17 years of experience in the storage industry . Most recently, she was CMO of Nexenta Systems. Prior to Nexenta she was CMO for StorSimple, which was acquired by Microsoft in 2012. Before StorSimple Warwick was vice president of NAS marketing & business development with Hitachi Data Systems after the HDS acquisition of BlueArc in 2011. Warwick served as BlueArc's senior vice president of marketing & business development from 2009-2011, and was responsible for product management in addition to marketing and business development. Prior to BlueArc, Warwick spent 10 years at NetApp in several roles including vice president of business operations, vice president of technical marketing and senior director of engineering. During her time there, Warwick helped the company establish deep product integration with partners, including Microsoft, and was a chief proponent of the company's growth in the Windows file services and applications market. Before her time at NetApp, she held various positions in IT. She is a graduate of Sheffield University in the UK with a BA (with honors) in French.