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## NVM Express (NVMe): An Overview and Performance Study

*Thursday 15 October 2015 16:30 (20 minutes)*

NVMe (Non-Volatile Memory express) is a leading-edge SSD technology where drives are directly attached to the PCI-e bus. Typical SAS/SATA controllers are optimized for use with traditional rotating hard drives, and as such can increase latency, and reduce the bandwidth available to attached SSDs. Since NVMe drives bypass a SAS/SATA controller, they can help minimize/eliminate performance reductions often seen when using these controllers with solid state storage. NVMe may become a key building block in future applications that require high-performance disk storage. This presentation describes the testbeds used to evaluate this technology in the context of a data center with a heterogeneous user community and a variety of applications, and summarizes performance and the pros and cons in the RACF environment.

### Length of presentation (max. 20 minutes)

20

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