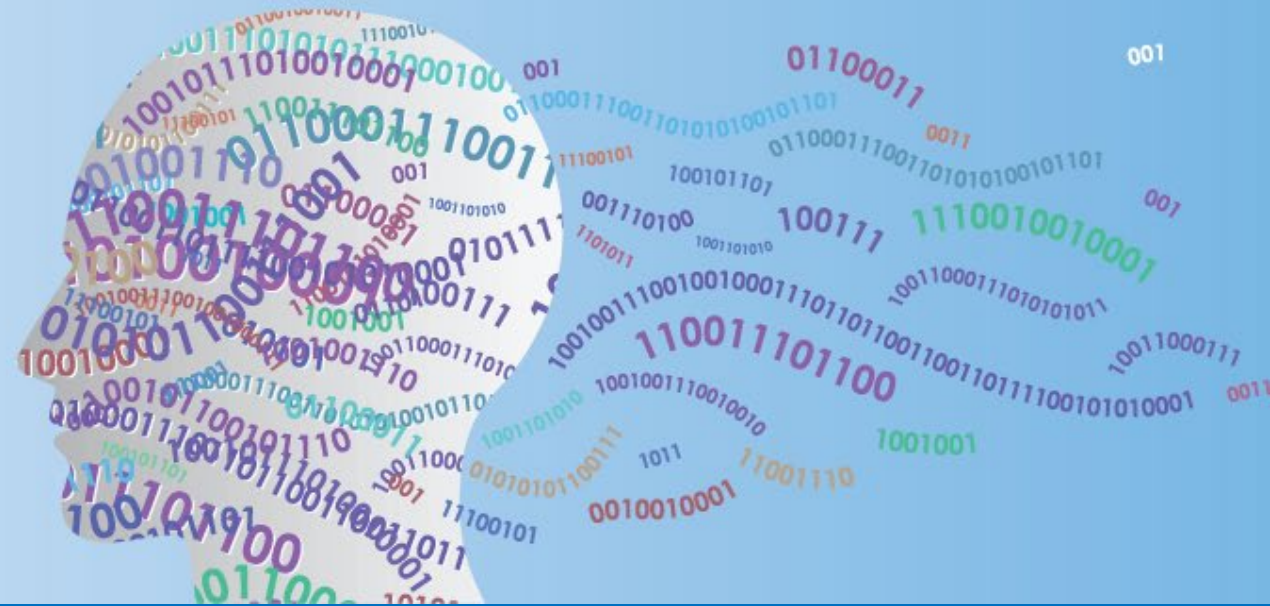




SNIA

PERSISTENT MEMORY + SUMMIT 2021 COMPUTATIONAL STORAGE

FROM DATACENTER TO EDGE : VIRTUAL EVENT
APRIL 21-22, 2021



NVMe Computational Storage: A New Hope for Accelerators and DPUs

Stephen Bates, CTO, Eideticom

NVMe is a transport

Michael Cornwell, Microsoft.

The future of storage is offload™

Sean Lundy, Eideticom.

Dare to imagine

(BN) Before NVMe

Applications

Libraries

Drivers

Hardware



Customer is **sad**

(AN) After NVMe

Applications

Libraries

NVMe

Hardware



Customer is **happy**

SNIA

nvm
EXPRESS

The Three Cs



Compatibility

- Interop between vendors
 - One software stack

Consumability

- Upstream driver support
 - FOSS libraries

Composability

- Direct attach (PCIe)
- Fabric attach (TCP or RDMA)
 - CXL in the future?



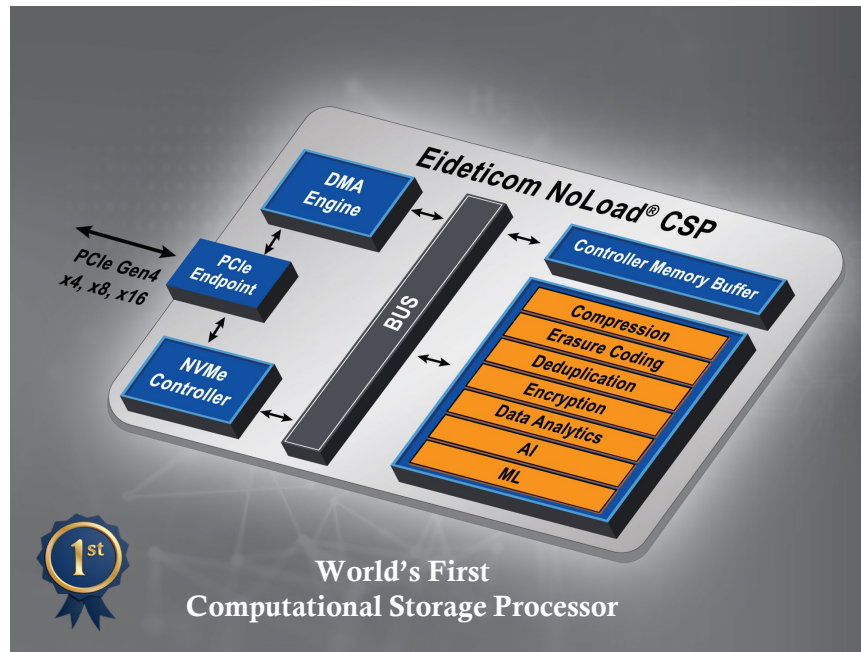
Customer is **happy**

Eideticom





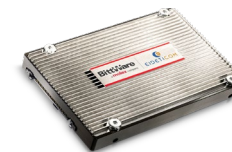
NoLoad Production Solutions



NoLoad U50



NoLoad SmartSSD

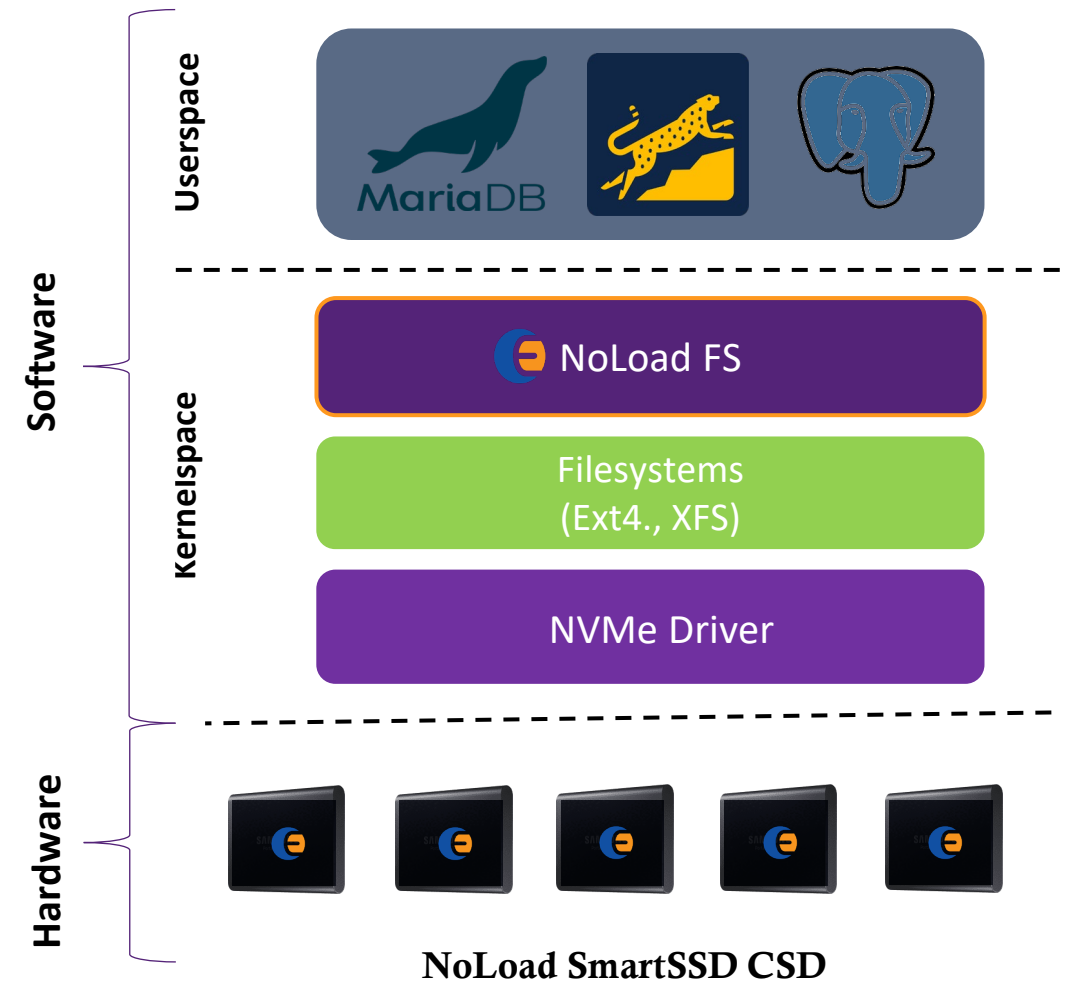
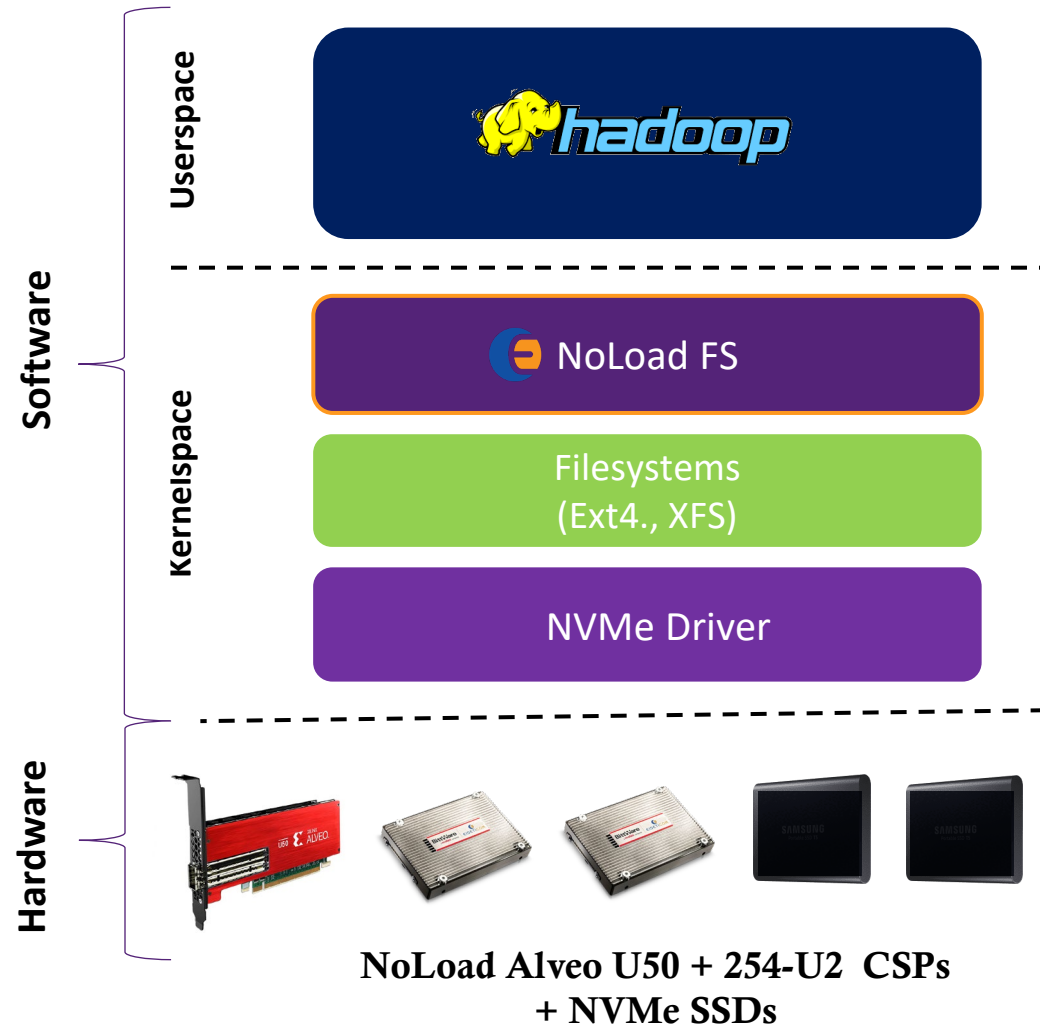


NoLoad U2

Transparent Compression

Database Acceleration

Data Analytics



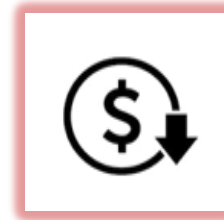
Acceleration without Application Changes



“The Eideticom NoLoad devices have demonstrated that we can offload storage functions onto accelerators enabling line-rate compression, improving CPU utilization, and reducing memory bandwidth pressure.”

Brad Settlemyer, Senior Scientist, Los Alamos National Laboratory

“Eideticom’s NoLoad provides hardware-based compression that enables increased storage capacity (lower \$/TB) without sacrificing performance”



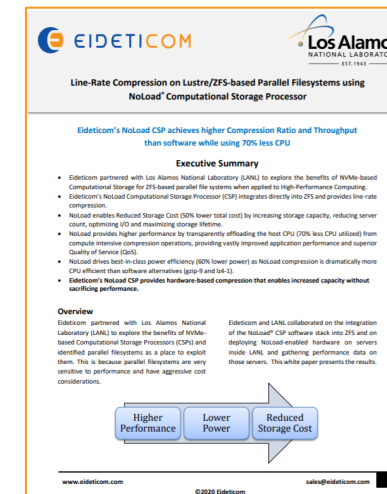
Reduced Cost



Higher Performance



Lower Power



The future of storage is NoLoad®

Thank you

Please visit www.snia.org/pm-summit for presentations

