SDC 20
BY Developers FOR Developers

Storage Developer Conference
September 22-23, 2020

Storage Architecture Track Overview Day 1

Bill Martin

Co-Chair SNIA Technical Council

Talks in the Storage Architecture track

- Unlocking the New Performance and QoS Capabilities of the Software Enabled Flash™ API
- Using Block Translation and Atomic Updates to Optimize All Flash Array Storage
- SmartNIC composable framework for flexible system partition
- Rethinking Distributed Storage System Architecture for Fast Storage Devices
- Breaking the Ten Millions IOps barrier for RAID
- Is Gaming changing the Storage Architecture Landscape?
- Cloud Data Center Designs Will Become HyperDisaggregated
- Tiered Storage Deployments with 24G SAS

Unlocking the New Performance and QoS Capabilities of the Software -Enabled Flash™ API

Rory Bolt
KIOXIA America, Inc

- **A Media-Based, Host Managed Hardware Approach**

- **Open sourced API and libraries providing functionality hyperscalers demand.**

Fine Grained Block Translation
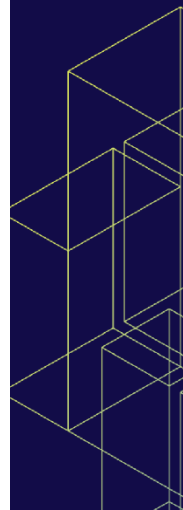
Douglas Dumitru
EasyCo LLC
www.WildFire-Storage.com

- Using Block Translation and Atomic Updates to Optimize All Flash Array Storage

SmartNIC composable framework for flexible system partition

Rémy GAUGUEY
Kalray

- Fully programmable Smart Storage adapter
  - leverages NVMe-oF technology to offload servers from heavy storage disaggregation task
  - pave the way toward a fully Composable Infrastructure

Rethinking Distributed Storage System Architecture for Fast Storage Devices

Myoungwon Oh
Samsung Electronics

- Lightweight Data Store
- Thread Control
- Replication Offloading using NVMe-oF
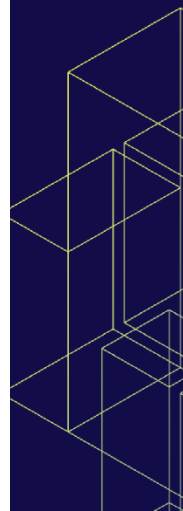
Breaking the Ten Millions IOps Barrier for RAID

Sergei Platonov
RAIDIX

- New RAID architecture to take advantage of
  - Large number of NVMe drives in a chasis
  - Faster flash technologies
  - Faster PCIe bus

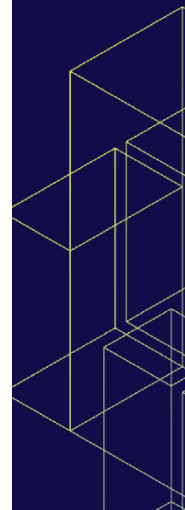# Is Gaming changing the Storage Architecture Landscape?

Leah Schoeb
AMD

- Gaming overview

- Storage

- Cloud Gaming

Future Data Centers Will Be Hyperdisaggregated

Jai Menon
Fungible

- Current data centers are inefficient for data-centric computations

- Future data centers will be hyperdisaggregated

- Fungible solutions

Tiered Storage Deployments with 24G SAS

Jeremiah Tussey
Vice President, SCSI Trade Association

- Enterprise Storage Market Update

- 24G SAS Enhancements

- Data Center Applications and Examples

- Storage Tiers Using 24G SAS

Maximize your SDC 2020 Experience

- Check out the Birds of a Feather (BoF) sessions

- Please be sure you rate each session you watch – you'll see a box under the video

- For additional details see the *Introduction to Virtual SDC* video (https://www.snia.org/SDCintro)

- ***Enjoy the SDC 2020 virtual event!***

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