



Flash-optimized Storage and Digital Content Workflow in M&E (aka 2K ... 4K ... moreK!)

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bending light around objects

Huge growth in M&E storage requirements for digital content

- ❑ Solutions that address two key challenges facing M&E industry:
 - ❑ Data Storage
 - ❑ securely and cost-effectively recording and storing digital content
 - ❑ Bandwidth
 - ❑ securely and cost-effectively transporting and replicating digital content



for any given production data volume grows rapidly from set through post to final delivery

The Challenge

Where to put it all?

How to get it from A to B?

... quickly

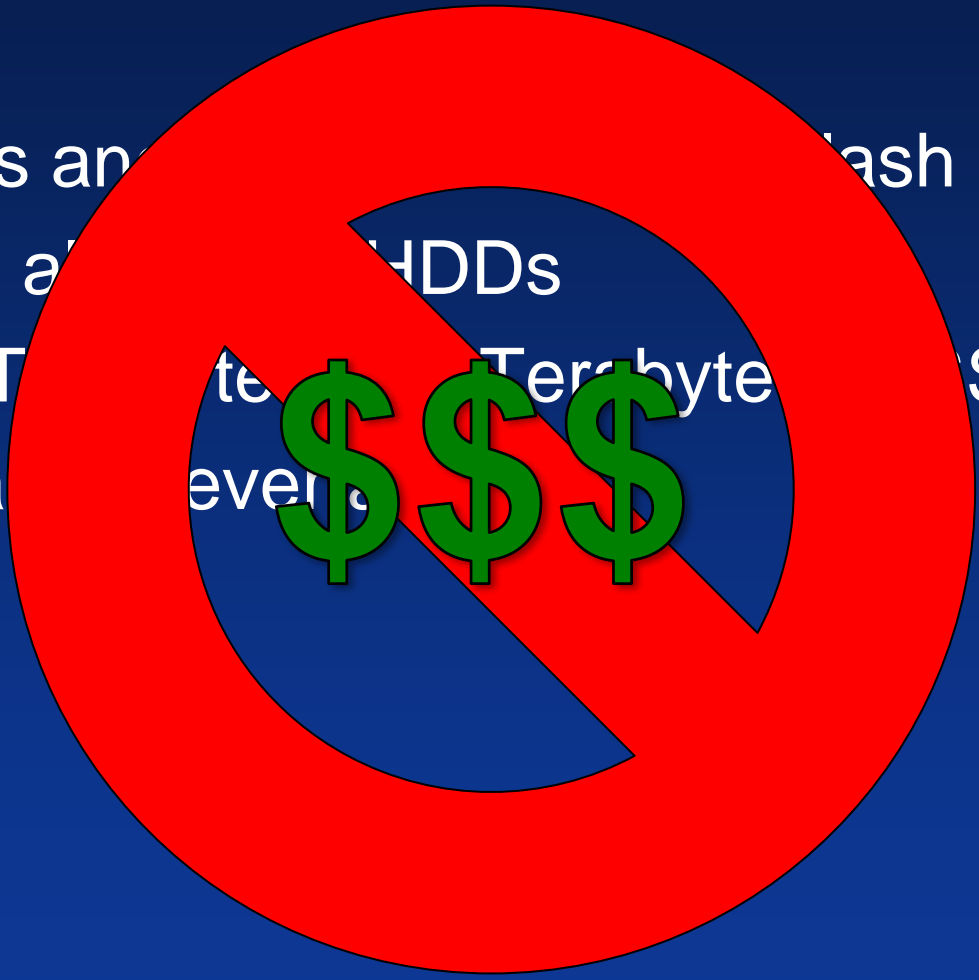
... securely

and cost effectively!

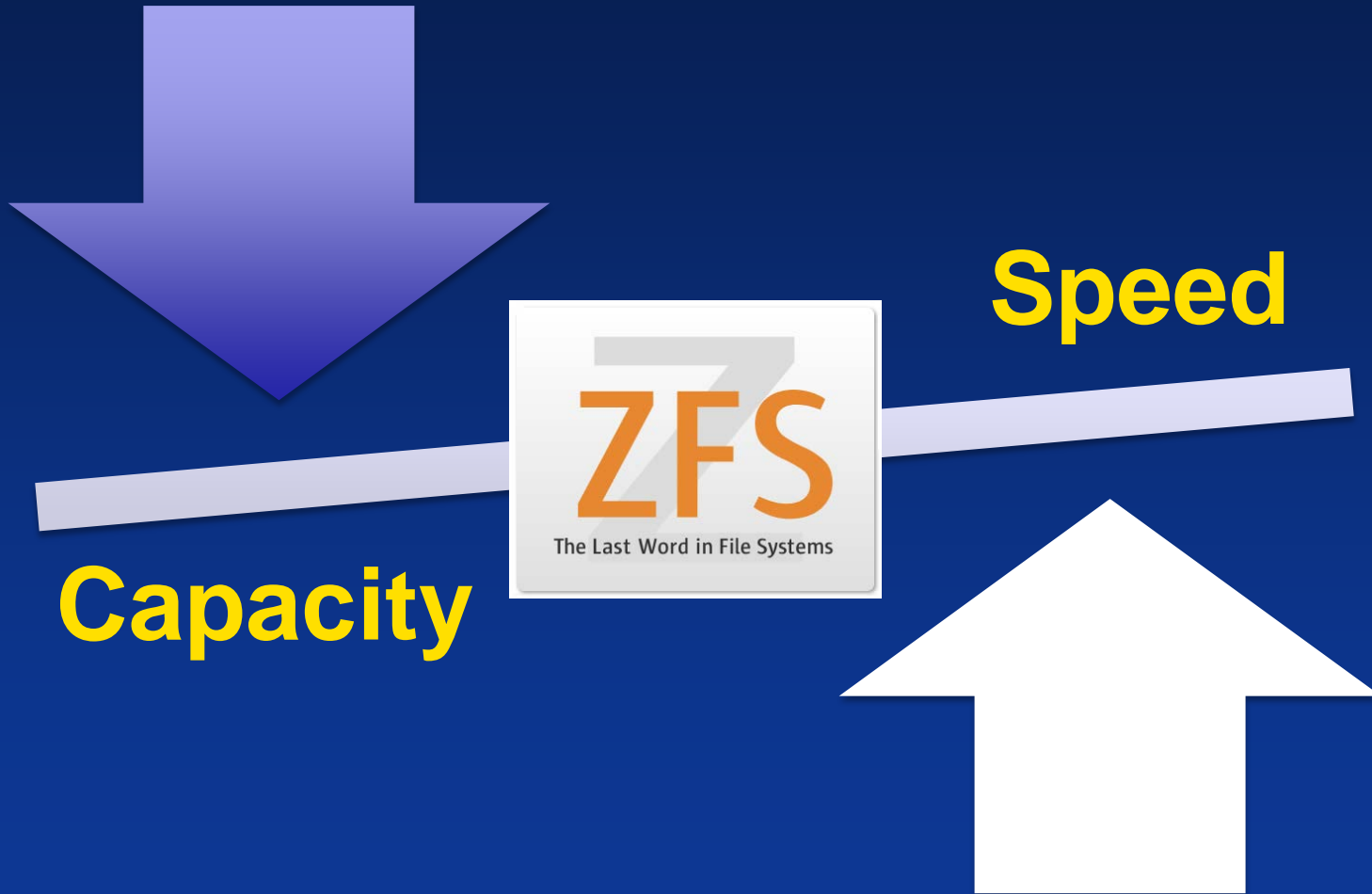


Answer ... easy!

- Buy lots and lots of flash memory
- Rip out all the HDDs
- Install Terabyte Terabyte Terabyte SDs
- Live happily ever after



Cost Effective/getting the right balance



Why ZFS versus traditional FC RAID?

ZFS is both a
File System and
Volume Manager

128 bit addressable capacity
(16 billion-billion times more than
current 64 bit applications)

ZFS Pooled Storage



SSD

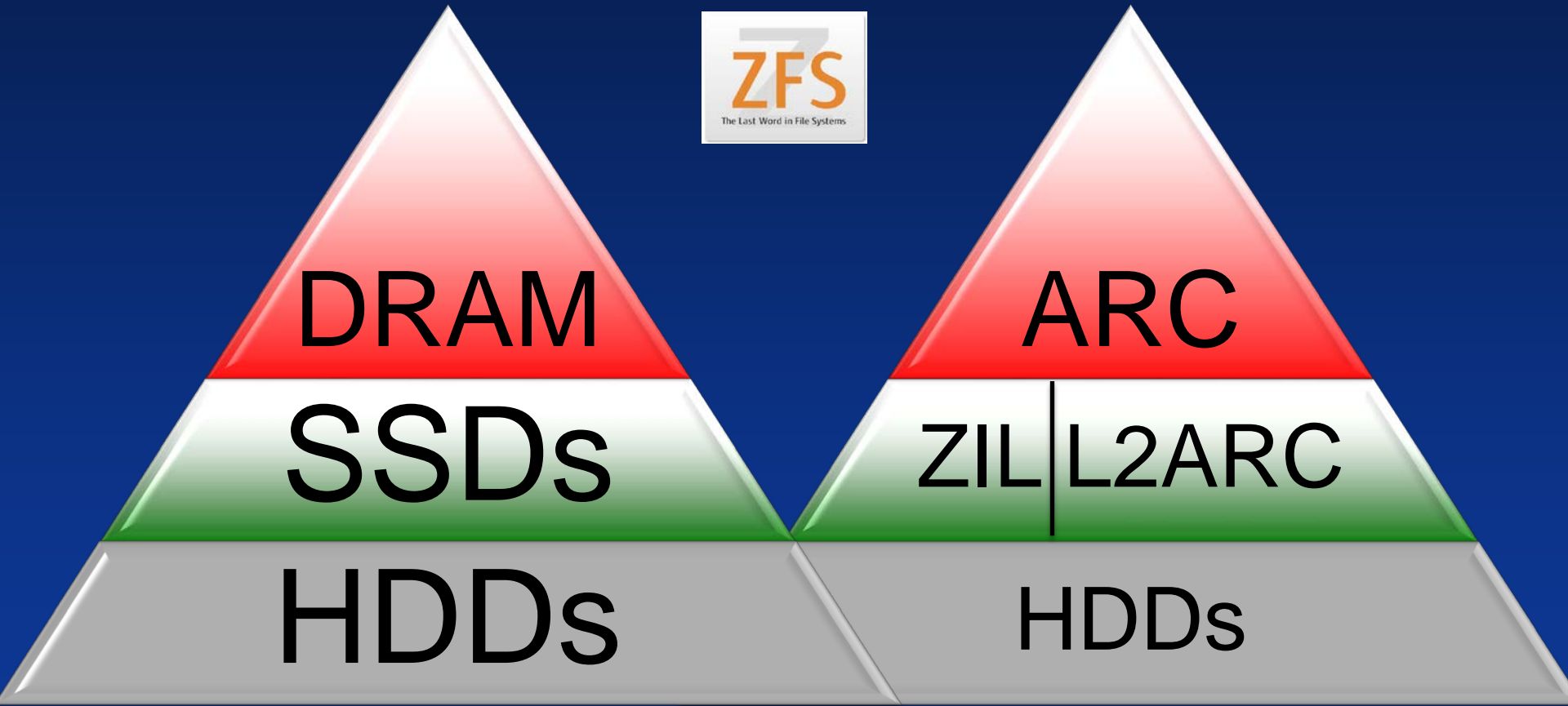


DRAM

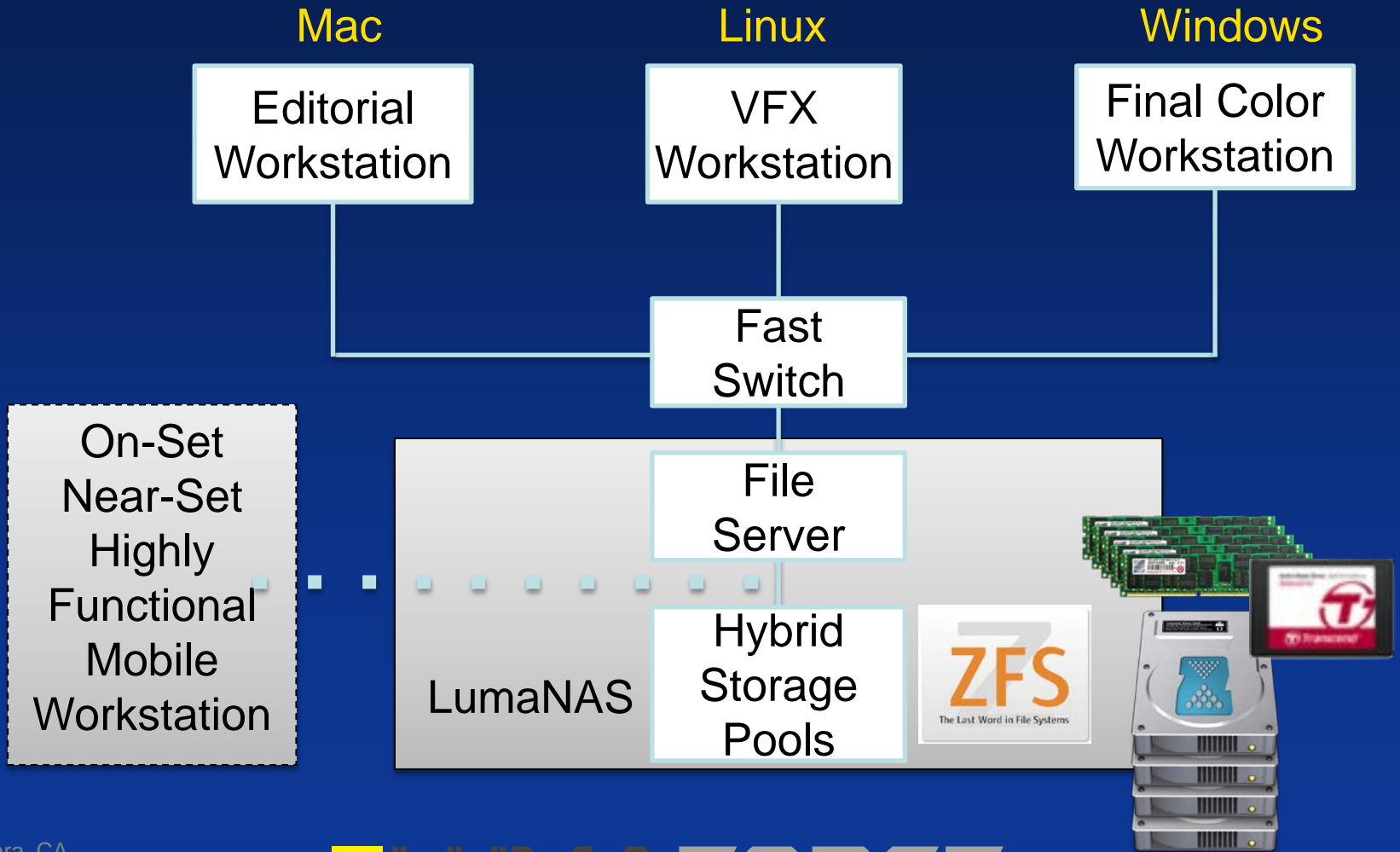
HDD



Intelligent Caching



From Camera through Post



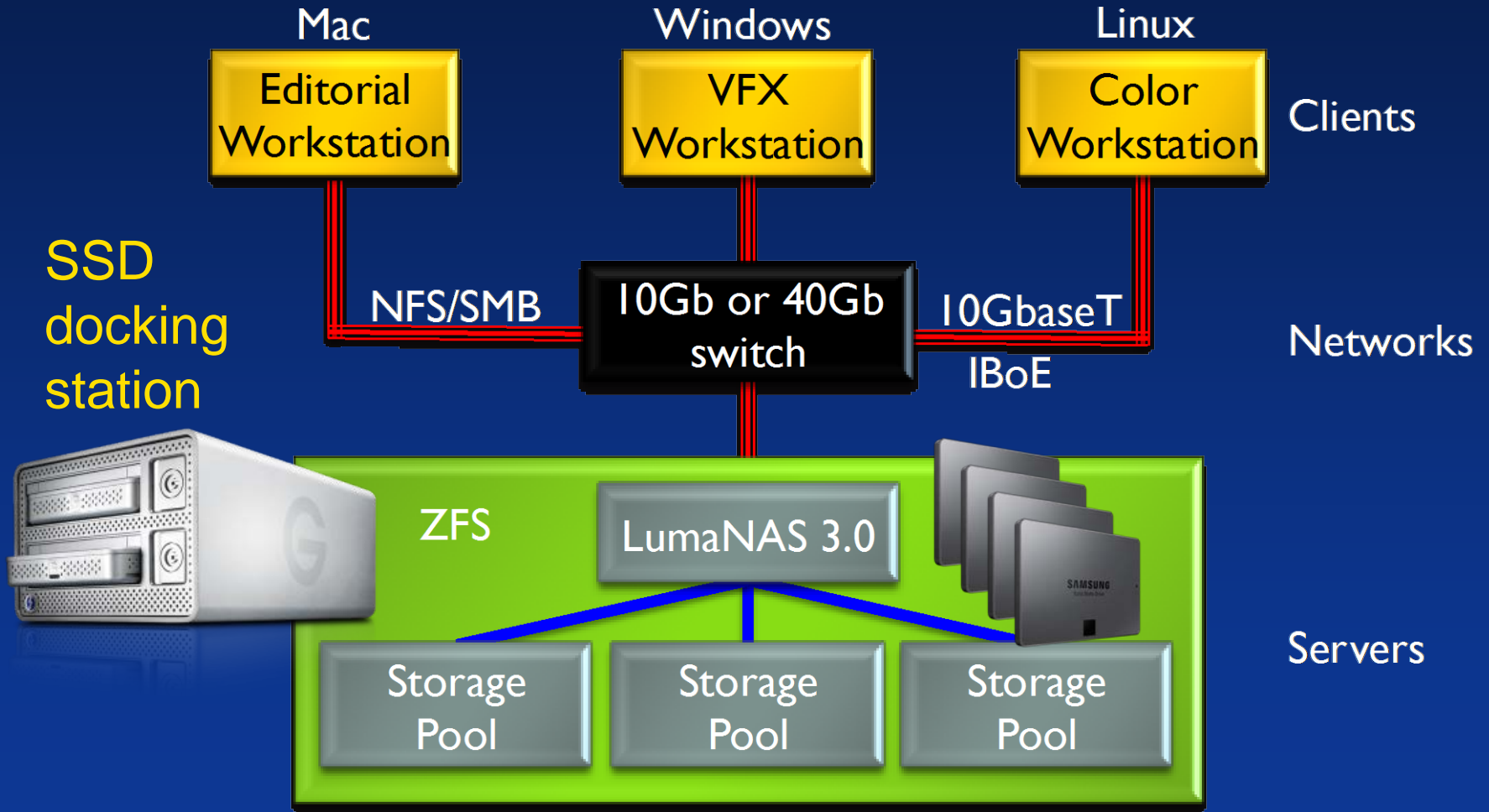
LumaNAS Mobile Unit

On-set
SSD
Camera
mags
and
shuttle
drives

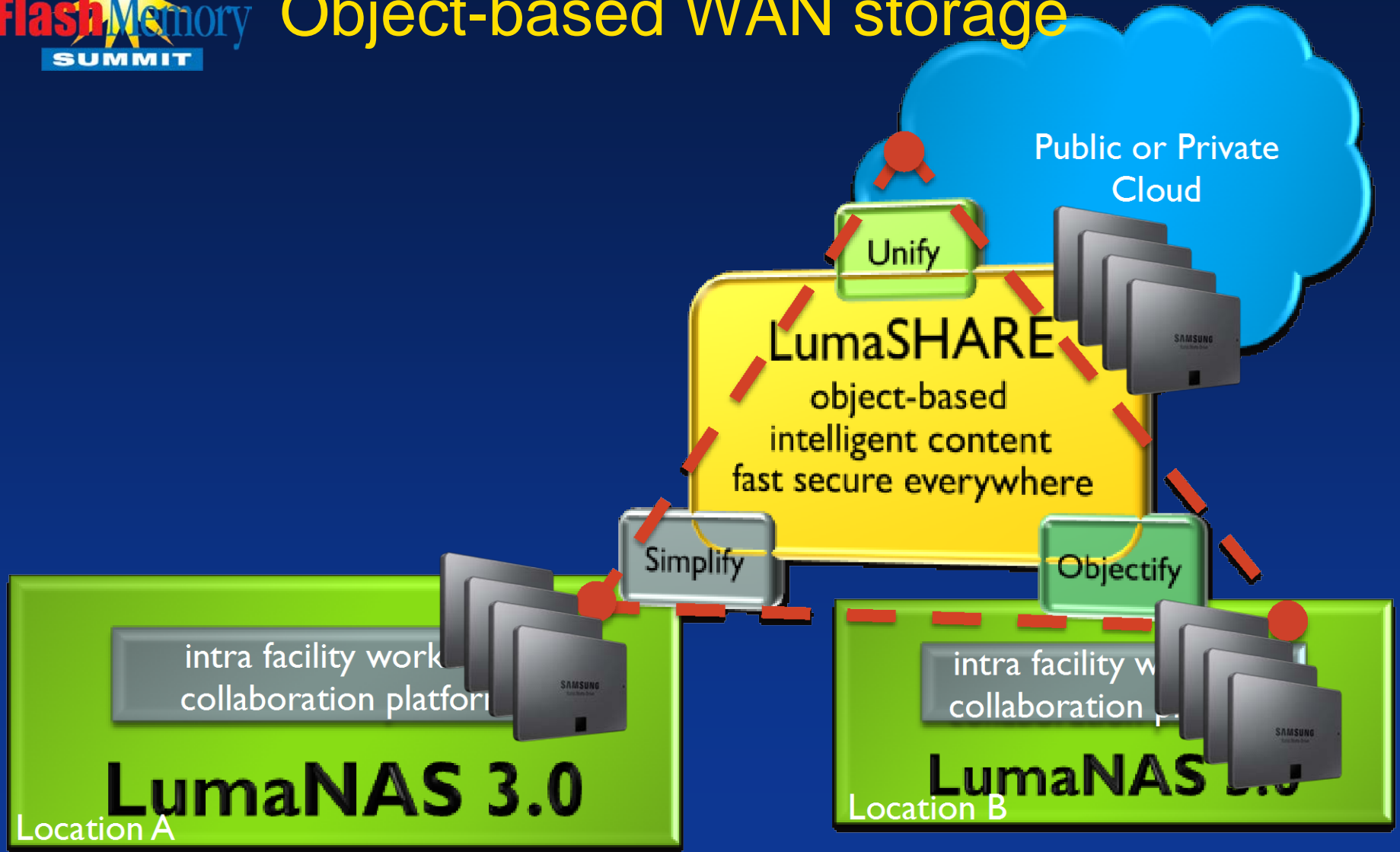


On-set SSD
storage pool
with fast
off-load I/O

LumaNAS 3.0 facility shared storage



Object-based WAN storage



- Storage requirements growing rapidly in M&E
- Still require hybrid storage solutions
- HDDs for high capacity & low cost
- SSDs for high speed & hot data
- DRAM for fastest speed but highest cost
- ZFS – 21st century storage glue
- Object-based storage for global distribution



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The Lot
West Hollywood

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- ◉ **System Integrator & VAR**
- ◉ **Shared Storage and Networking**
- ◉ **Workflow Optimization**
- ◉ **Installation and Support**
- ◉ **Training**
- ◉ **LumaNAS ZFS shared storage**
- ◉ **LumaSHARE Object-based storage**