Welcome To Performance Sprawl

What is Performance Sprawl

What is Causing Performance Sprawl

How To Stop Performance Sprawl

Storage Switzerland, LLC

Agenda

- Storage Swiss Background
- What is performance sprawl
- What is causing performance sprawl
- How To Stop Performance Sprawl

Background

- Analyst firm covering storage, cloud and virtualization markets

- Knowledge of these markets is gained through product testing, real world implementations and interactions with users and suppliers

- The results of this research are found in the articles, briefing reports, case studies and lab reports on our web site www.storage-switzerland.com

What Is Performance Sprawl?

- Sprawl is caused when many options are deployed to fix one problem, in this case performance

- We've seen this before servers, storage, switches

- At some point we reach a point of consolidation - virtualization, SANs, Chassis

- Performance Sprawl Is Different

Customer See Flash As
The Performance Easy Button

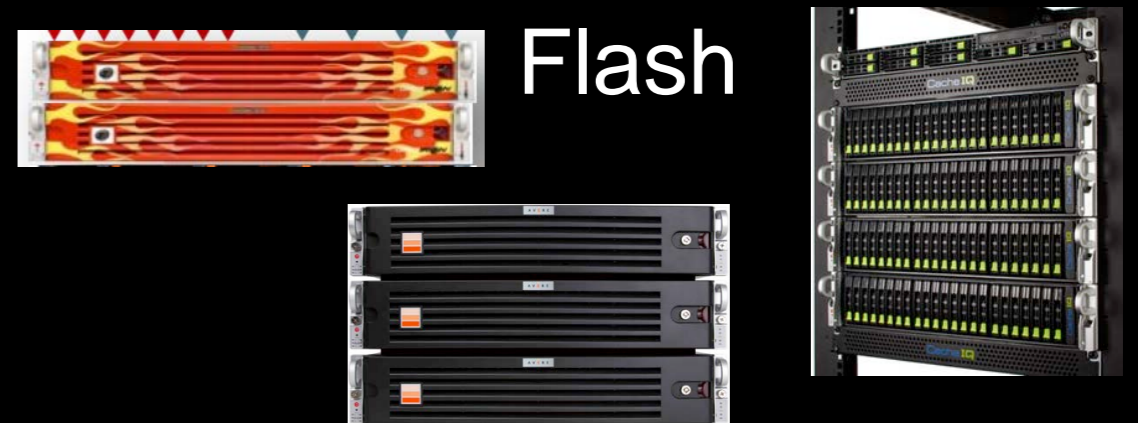# And Vendors Raced To Market With Solutions

Server Based Flash
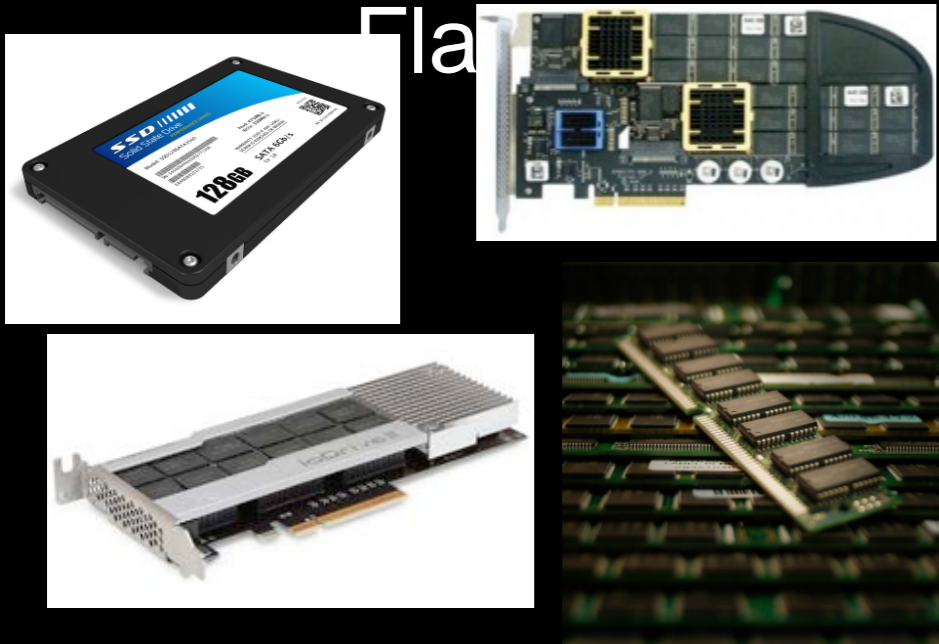
Network Based Flash

Storage Based Flash

Which Leads To Performance Sprawl

Server Based Flash

| Protocol Access | Server Storage Cache | Storage Memory |

Network Based Flash

| NFS Flash Cache | SMB Flash Cache | Fibre Flash Cache |

Storage Based Flash

| SSD in Storage Systems | SSD Appliances | All Flash Arrays |
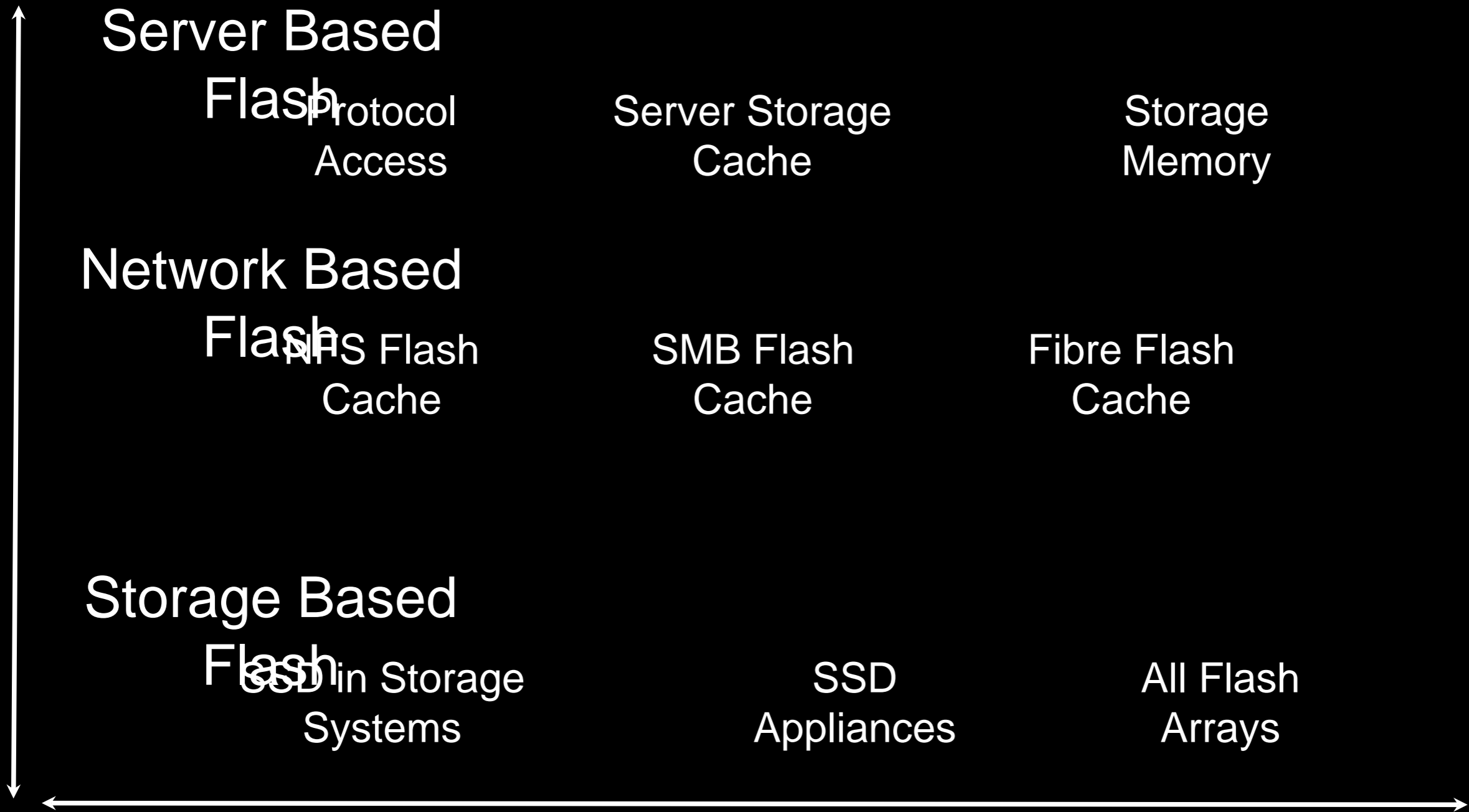
Each Individual Solution Can Make A Difference

- Server Based SSD has value for rapid boot

- PCIe has value for caching / storage memory

- Network Caching bring performance to legacy systems

- Storage Systems with integrated flash or flash only are compelling refreshes

Flash Everywhere

The Problem With Flash Everywhere

Performance Management Becomes a Full Time Job

The Point of Convergence: Automated, Cross Domain Data Movement

Server Based Flash

Network Based Flash

Storage Based Flash

- Validates the use of "flash everywhere"

- Data is placed in the right location at the right time

- At least two years away from production

Short Term
Performance Triage

Performance Triage

- Depends on most pressing performance problem
  - Servers - PCIe
  - Storage Refresh
    - All Flash
    - Hybrid
  - Broad Range of Problems
    - Network Cache

Goal is to pick one for now

Thank you for Attending!

QUESTIONS

More resources:

www.storage-switzerland.com