

Welcome To Performance Sprawl

What is Performance Sprawl

What is Causing Performance Sprawl

How To Stop Performance Sprawl



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

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8/13/2012 Article by George Crump: [Beyond The Backup Window](#) - When selecting a Purpose Built Backup Appliance (PBBA), performance, expressed in terms of reducing the backup window, is often the primary focus of the selection process. While reduction of backup window is important, the performance of the backup appliance is typically not the sole factor in total backup performance. Not meeting the backup window timeframe is also not the sole reason for incomplete backups. The complexity of the process and the lack of flexibility in the process have built a house of cards where failure may be inevitable....[\[MORE\]](#)

Live Webinar:
The Four Requirements of VM Aware Storage
Where do Legacy Systems Fall Short?

- #1 - Simplify The VMware Storage Environment
- #2 - Use Efficient Use of Storage by leveraging dedupe
- #3 - Use Intelligent Manageability to achieve SSD/HDD balance
- #4 - Cost Control for maximum VMs per host and per storage system

Find out how to Maximize Your Virtualization Investment by eliminating the storage obstacles on August 16th at noon Central time. [Click to register or more information](#)

 Upcoming: Aug 16 2012 12:00 pm  Attend

What Is Performance Sprawl?



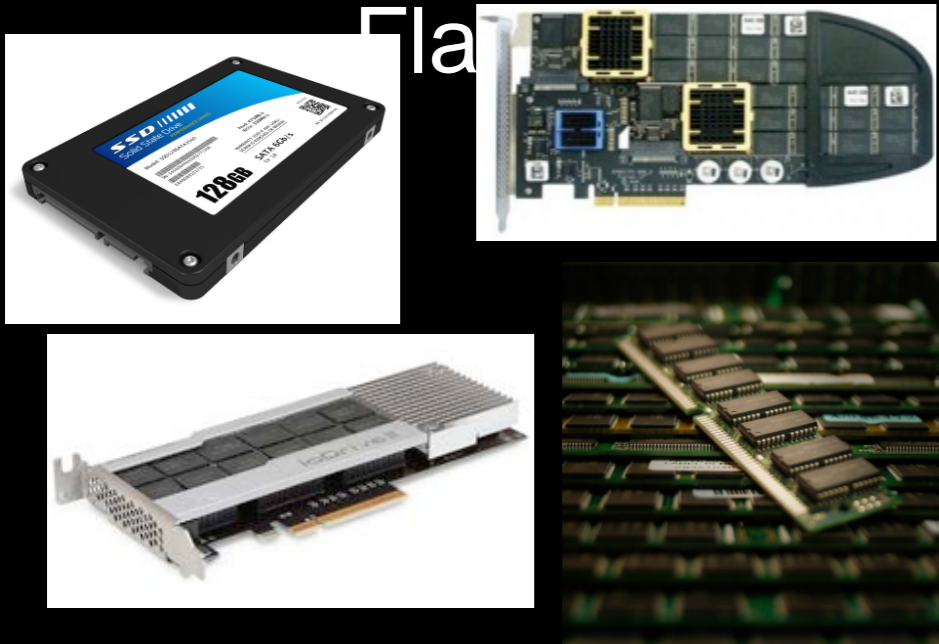
- Sprawl is caused when many options are deployed to fix one problem, in this case performance
- We've seen this before servers, storage, switches
- At some point we reach a point of consolidation - virtualization, SANs, Chassis
- Performance Sprawl Is Different

Customer See Flash As The Performance Easy Button

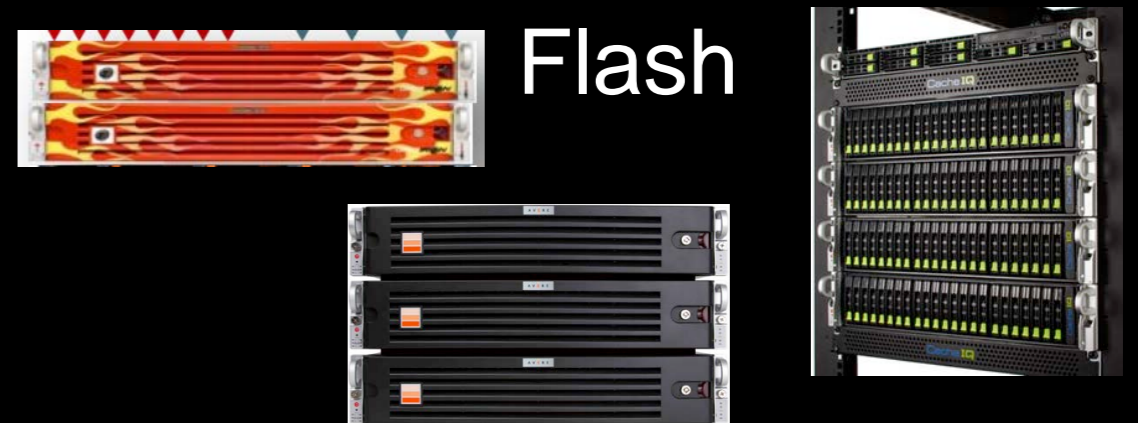


And Vendors Raced To Market With Solutions

Server Based



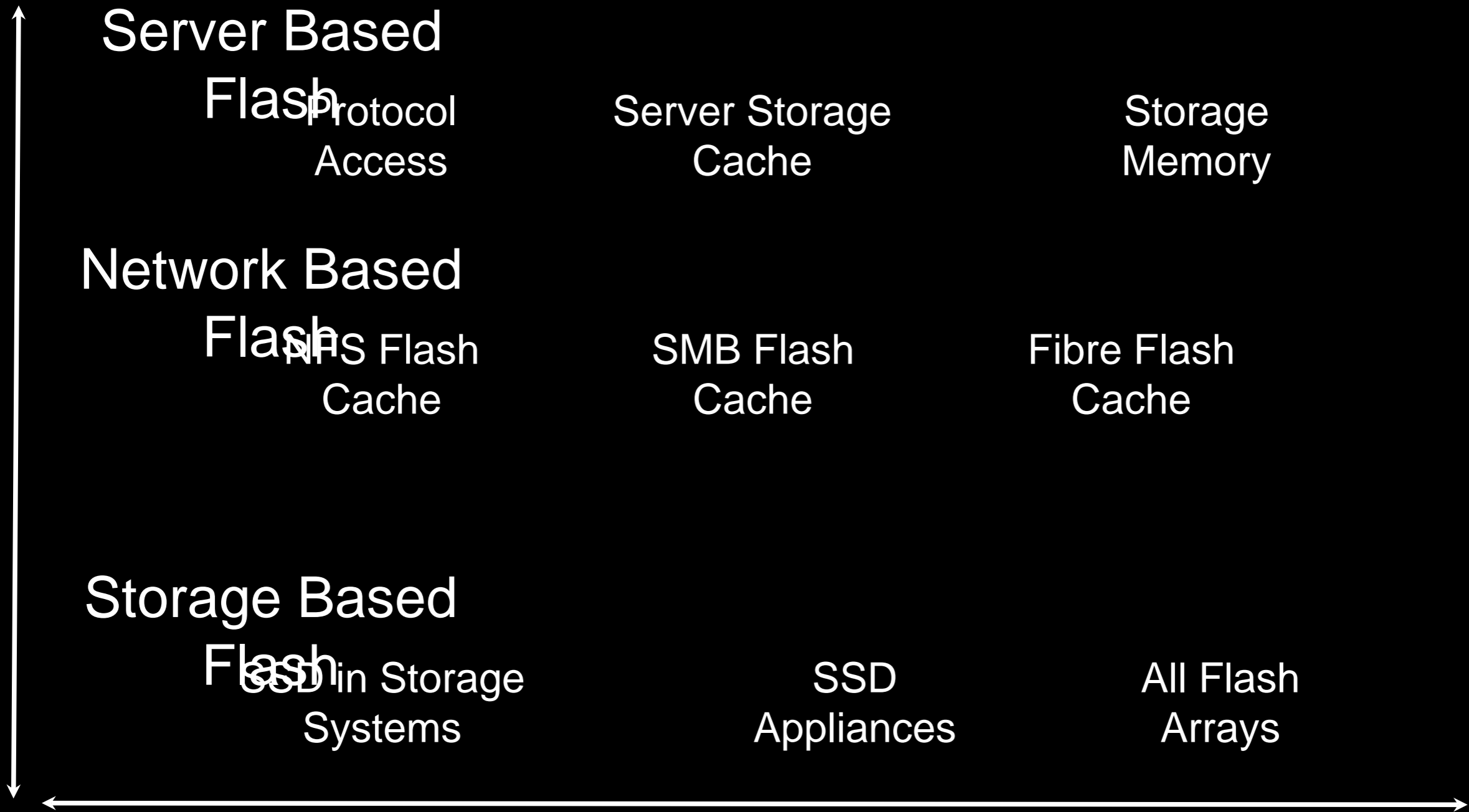
Network Based Flash



Storage Based Flash



Which Leads To Performance Sprawl



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