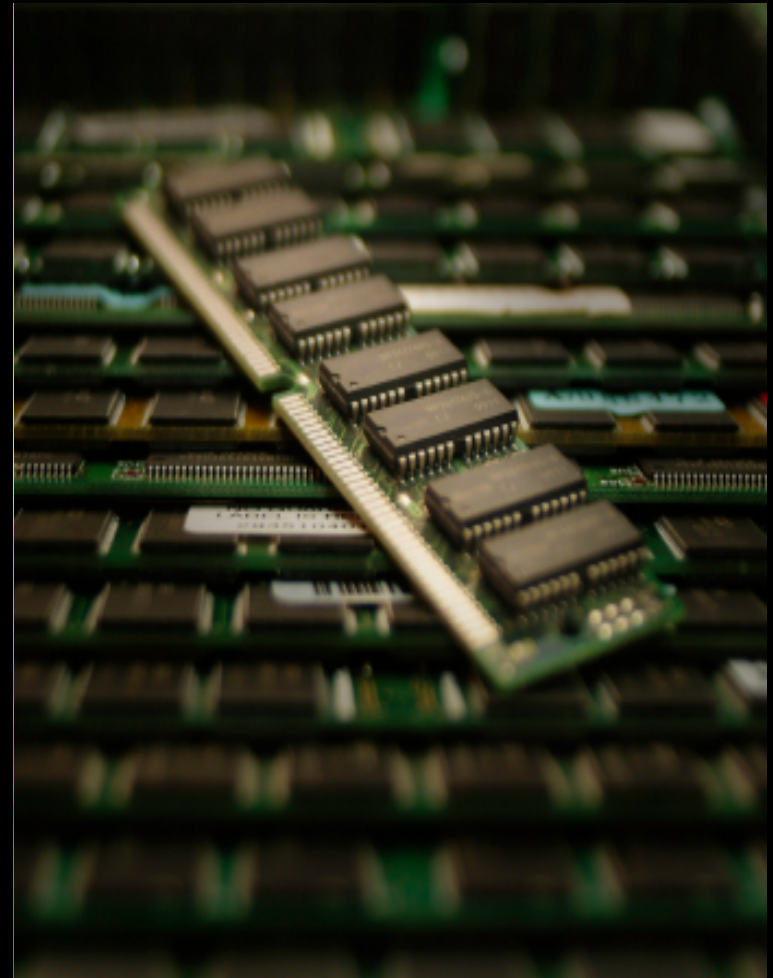


The Impact of Software Defined Storage on Flash/SSD

1. What is Software Defined Storage?
2. Does it really reduce hardware costs?
3. Can it reduce operational costs?
4. Does it eliminate vendor lock in?
5. Is it right for me and my data center?



Agenda

- What is Software Defined Storage?
- Does it reduce hardware costs?
- Does it reduce operational costs?
- Does it eliminate vendor lock in?
- Is it right for me and my data center?





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

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Storage Switzerland, LLC TINTRI

Upcoming: Aug 16 2012 12:00 pm Attend

What is Software Defined Storage?

Software Defined Storage is the abstraction of the storage controller functions like volume management, data protection (RAID) and advanced services (snapshots) from the physical storage hardware.



What is Software Defined Storage?

Software Defined Storage is the abstraction of the storage controller functions like volume management, data protection (RAID) and advanced services (snapshots) from the physical storage hardware.

Storage Switzerland sees three categories emerging as a subset – Storage Virtualization, Storage Hypervisors and Hyperscale Storage



What is Software Defined Storage?

Storage Virtualization - the movement of storage services to a dedicated, purpose built appliance



What is Software Defined Storage?

Storage Virtualization - the movement of storage services to a dedicated, purpose built appliance

Storage Hypervisor – the movement of storage via virtual appliance to the virtualized infrastructure



Software Defined Storage Categories

Storage Virtualization - the movement of storage services to a dedicated, purpose built appliance

Storage Hypervisor – the movement of storage via virtual appliance to the virtualized infrastructure

Hyperscale Storage – the aggregation of storage services across hypervisor servers leveraging local storage

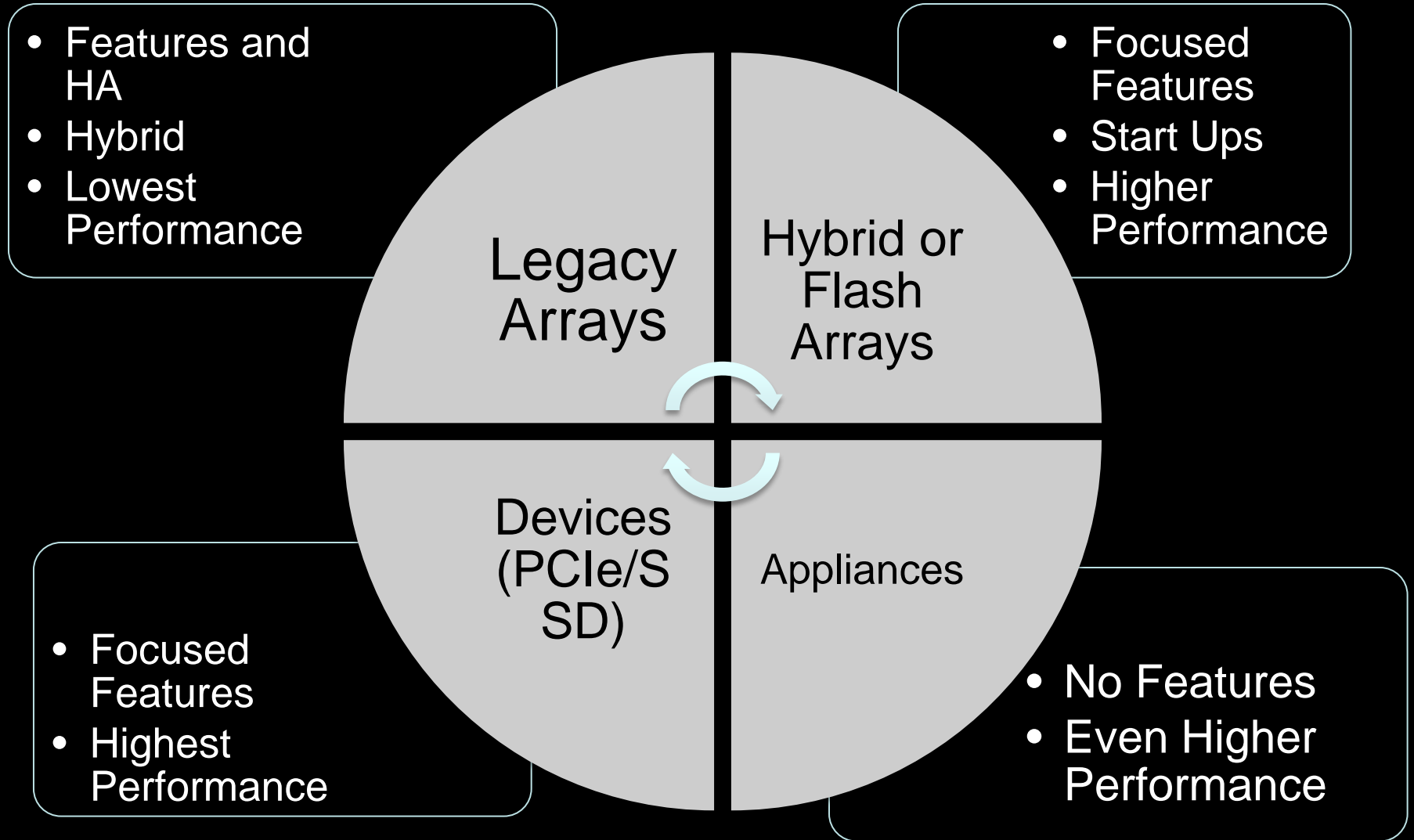


The Key Questions

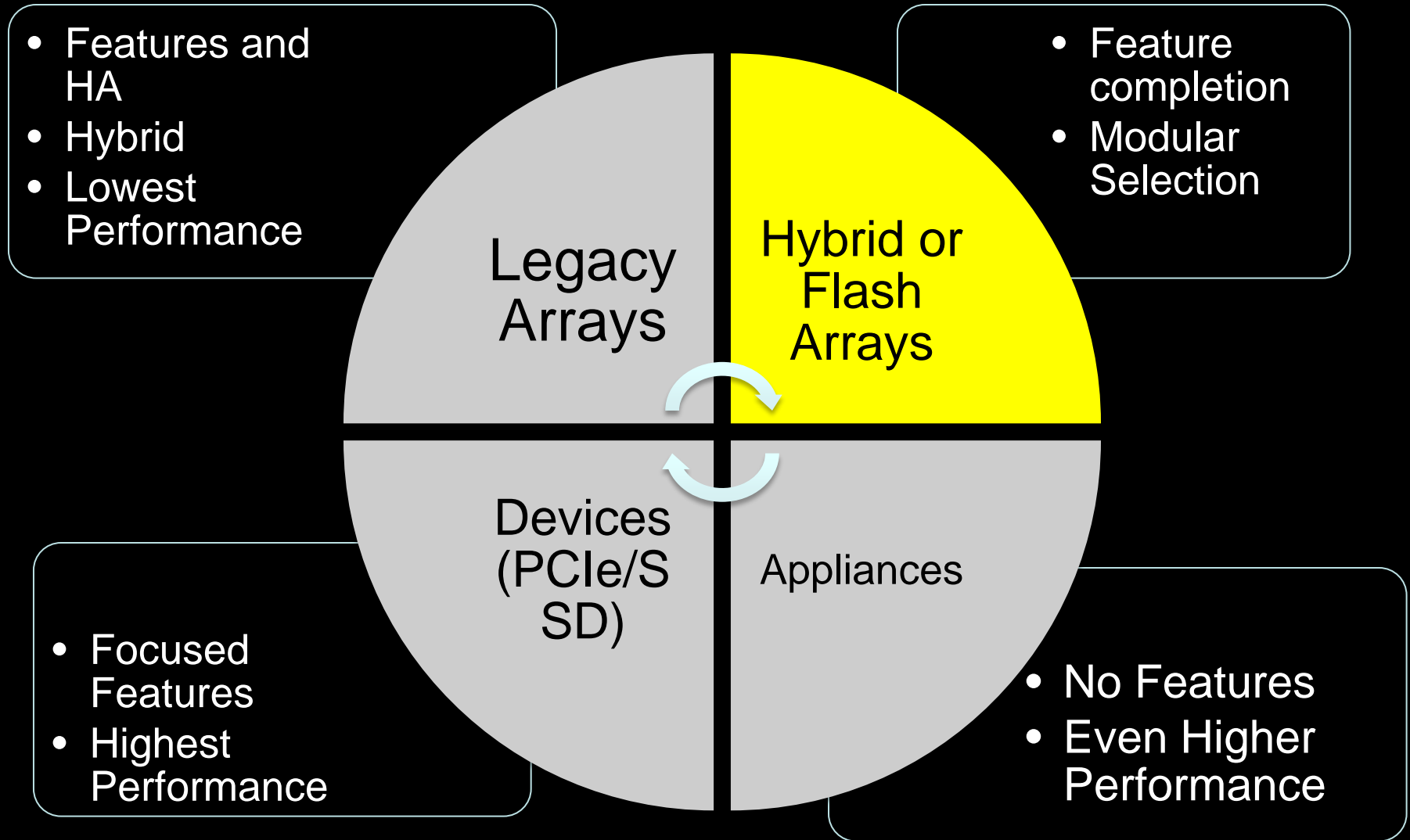
- Does it reduce hardware costs?
- Does it reduce operational costs?
- Does it eliminate vendor lock in?
- Could we see the demise of stand alone storage systems?



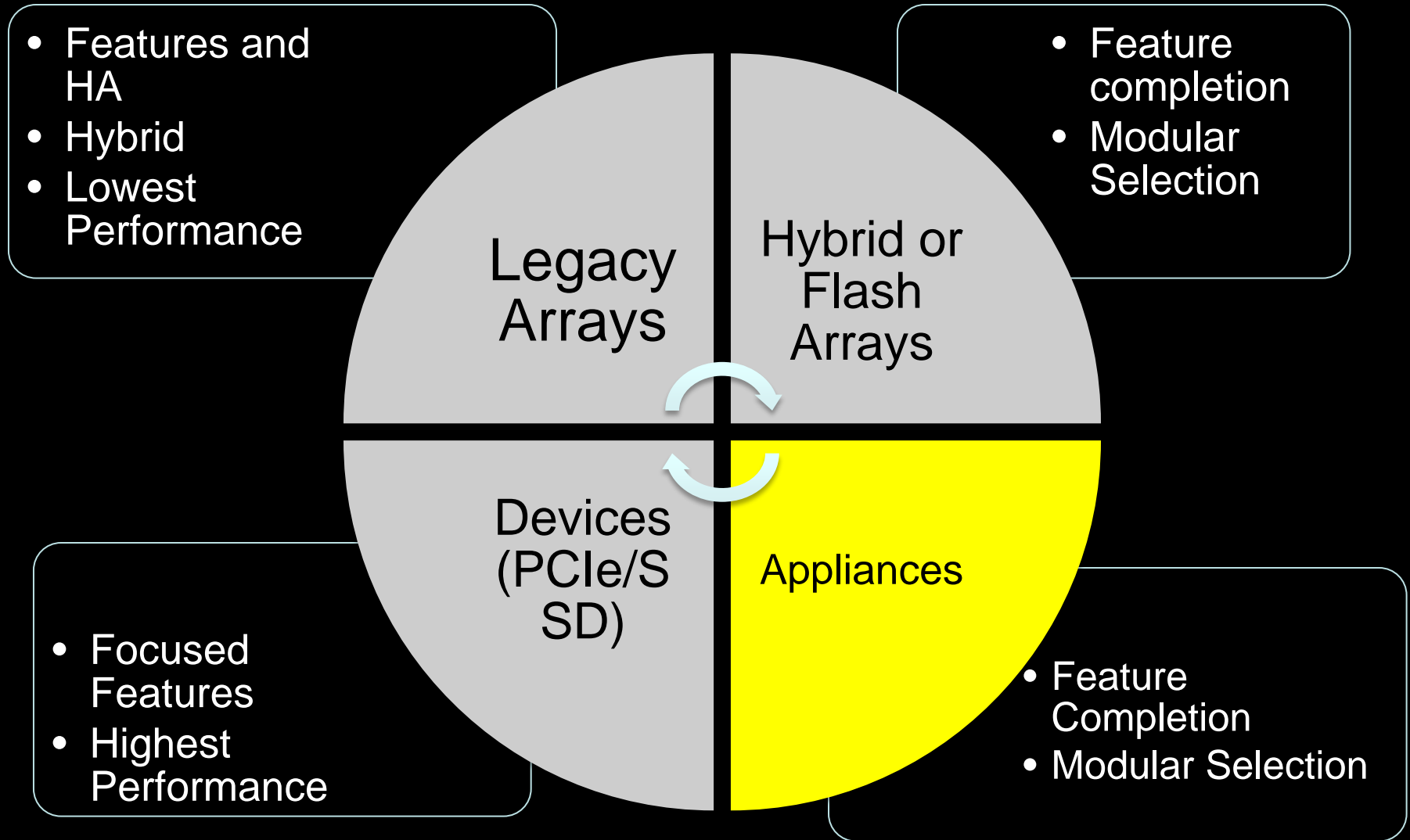
The Flash Paradox



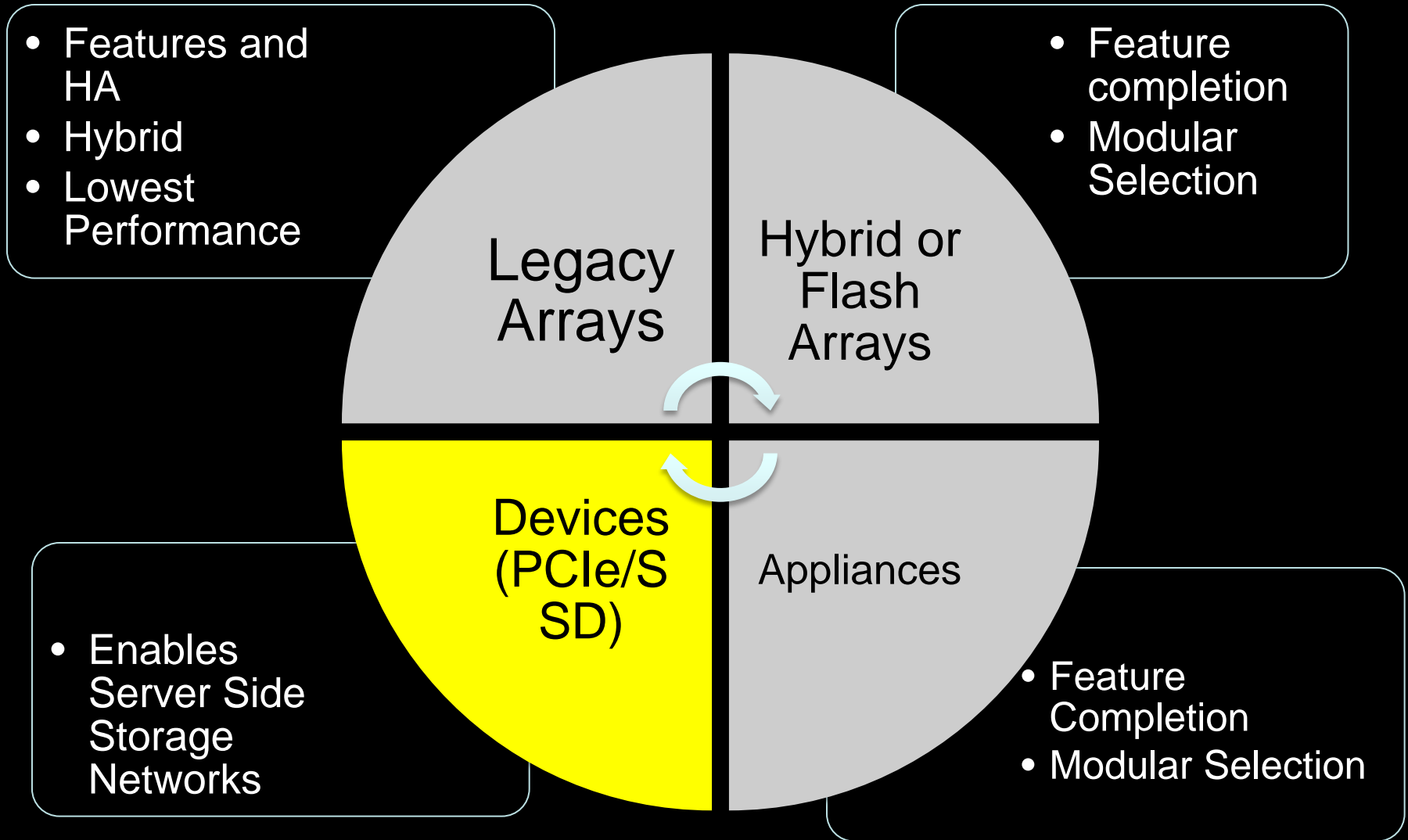
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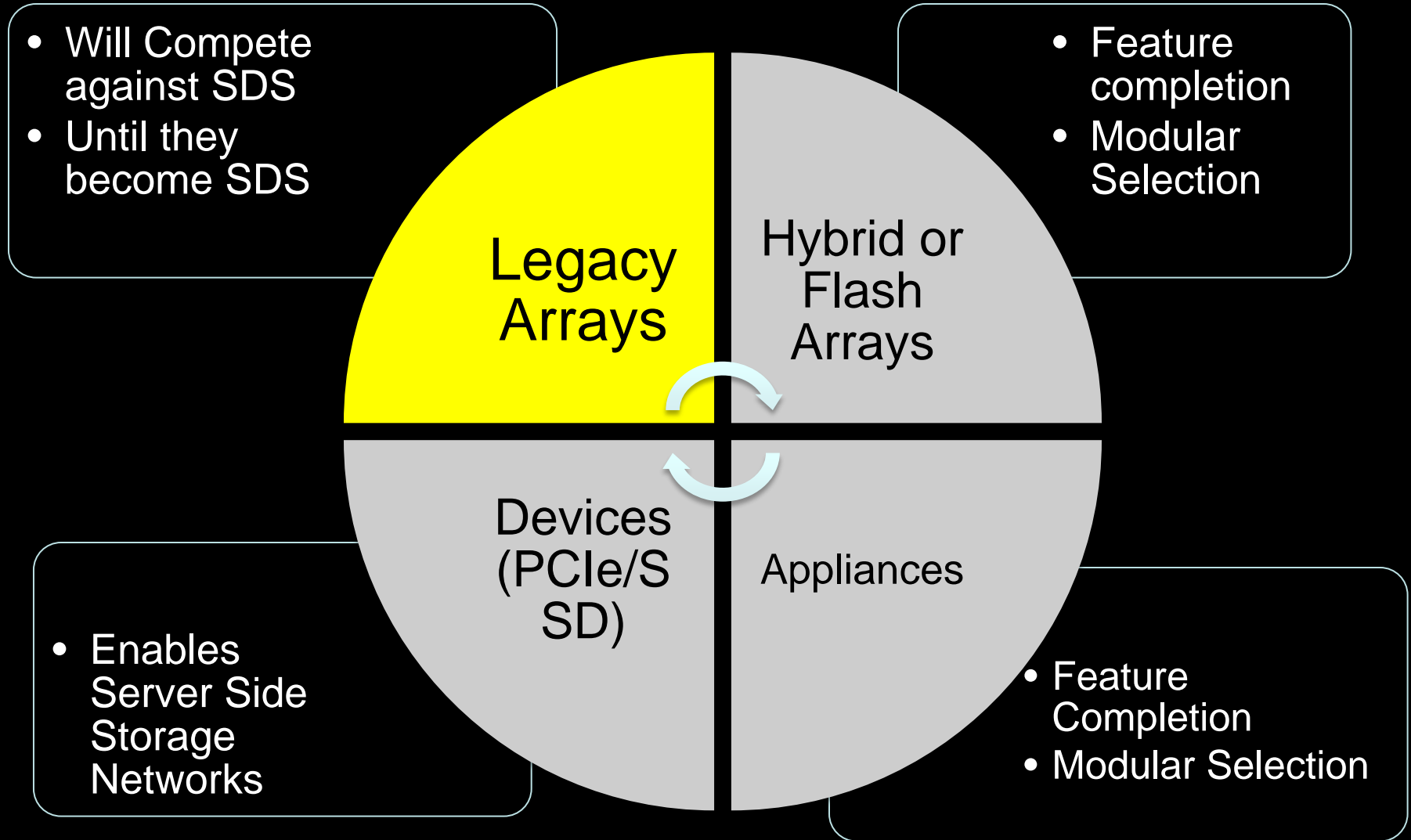
The Impact of Software Defined Storage on Flash



The Impact of Software Defined Storage on Flash



The Impact of Software Defined Storage on Flash



The Software Defined Future

- Eventually everything will be Software Defined
- *But hardware quality and performance will become more important than ever*
 - *Flash Controller Intelligence included*
- *Software Defined will come pre-installed on servers*



Thank you

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