

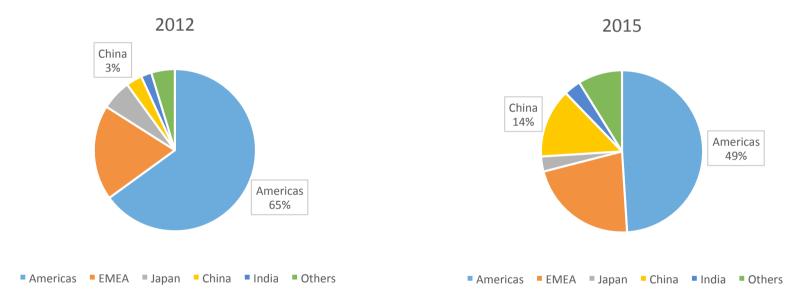
NVMe SSD Applications in China Datacenter

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Total Enterprise SSD Revenue Share by Region, World Wide

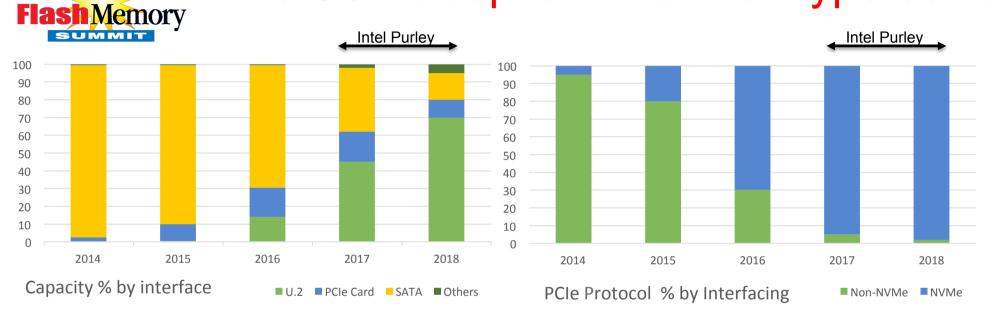


China continued to outperform in 2015, rowing its share to 13.5%. This share gain was due not only to the well-known giants Baidu, Alibaba and Tencent, but also to growth in demand from smaller webscale, e-commerce and other data center customers.

Source: Gartner



NVMe SSD adoption in China Hyperscale



China Hyperscale companies, Baidu, Alibaba and Tencent, already volume deployed NVMe SSD. We expect most of SATA SSD will be replaced by NVMe SSD since 2017 with intel Purley platform ramping





Memory The Two classed Requirements

Standardization

- Database
- Searching indexing
- CDN
- Big data
- Virtualization

Customization

- Lower CPU overhead in could environment
- Mixed Workload deployed
- Data protection on NVMe





Flash Memory How Memblaze meet the requirments

Standardization



Customization



Target Customers	Telecom, Tier2 Could, FSI, SMB	Hyper-Scale , OEM	
Business model	Memblaze Branding Finish Goods, fulfill with Server OEM/ISV and Channel	Flexible with Finish Goods/Services Royalty / Open BOM	
Product Development	Internal Product definition and standard development management	Co-work with customers on Product definition, development and validation	
Features and advantage	Best in class production features	Highly optimized for customer specific requirements	
Services Team	Sales and FAE	Technical PM, Sales and FAE	

Flash Memory Summit 2016 Santa Clara, CA





Flash Memory Let's talk about a little details

Requirements	Lower CPU overhead in could environment	Mixed Workloads deployed	Data protection on NVMe
Today's solution	1. Limited VM numbers	One workload per disk	Hardware RAID + SATA SSD
Challenging when adopting new NVMe	 No SR-IOV NVMe ready yet No QoS for NVMe solution yet No security solution for cloud yet. 	No QoS SSD to aware mixed Workloads yet.	1. No RAID solution
Memblaze solution	 User space Driver with NVMe to reduce CPU overhead User Space QoS solution developed by customer Specific command to trim data of dead VM 	 Multiple Namespace Name Space QoS 	 Software RAID (FlashRAID) Working with OEM to dev the LED control and advanced management function





Thanks!

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