

For the past two years **Avago experienced astronomical business growth** which its existing storage system could not keep up with. Avago's organic and acquisition growth heightened the need for a cost-effective, flexible and scalable storage system. After deploying Pure Storage, Avago Technologies was able to cut its storage hardware from five racks to just one at each of its three datacenters as well as garner greater cost savings as Oracle databases were consolidated.

**BUSINESS TRANSFORMATION**

A storage system that supports the companies hyper-growth

GEO

Global

INDUSTRY

Technology

“We needed a cost-effective storage system which was flexible and scalable.”

*Alan Davidson, Infrastructure Director,
Avago Technologies*

PURE STORAGE HELPS GLOBAL SEMICONDUCTOR COMPANY OVERCOME PERFORMANCE ISSUES AND MANAGE GROWING BUSINESS DEMANDS

Avago Technologies is a leading semiconductor device supplier to the wireless, enterprise storage, wired, and industrial end markets. Backed by an extensive portfolio of intellectual property, Avago Technologies' products serve four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial. The company recently made significant acquisitions with LSI Corporation in 2013, adding enterprise storage to Avago's wired infrastructure, wireless and industrial businesses, and PLX Technology, PCI Express silicon and software connectivity solutions, in 2014.

Ranked within the top 10 revenue-generating semiconductor companies globally, Avago reported a 71 percent growth in yearly revenue of USD 4.31 billion at the end of fiscal 2014. The company is headquartered in San Jose, California, and Singapore, and employs 8,500 people globally.

GROWTH THAT LEGACY DISK COULD NOT SUPPORT

As a result of its astronomical business growth experienced over the past two years, Avago's storage requirements have continued to expand to support the growing volume of data they generate. The company's existing legacy storage systems could not keep up with the growth in terms of capacity and performance. As a result, key applications suffered from inadequate storage performance that adversely affected business productivity.

Avago invited Pure Storage and three other vendors to carry out a Proof of Concept (POC) for a cost-effective storage solution that could easily scale with the business and data growth, yet is simple to manage.

“We needed a cost-effective storage system which was flexible and scalable to help manage a vast amount of data which is growing exponentially as our business grows. We didn't want to have to continually upgrade or purchase additional storage as our business grew. This was a particularly significant challenge following our acquisition of LSI and PLX Technology,” said Alan Davidson, Infrastructure Director, Avago Technologies. “With up to 125TB of usable space, regularly upgradable controllers and expandable storage, Pure Storage FlashArray FA-420 easily satisfies our ever-growing need for storage and flexibility.”

COMPANY:

Avago Technologies
www.avagotech.com

USE CASE:

- Database

CHALLENGES:

- Low available storage: 30 TB of space utilized up to 80 to 90 percent
- Storage that could not scale with business needs
- High latency with slow access to applications and long lead time needed for report generation

IT TRANSFORMATION:

- Set-up in a half day vs. 1 week
- 5 racks of storage down to 1 rack
- Report generation cut in half

BUSINESS WITHOUT INTERRUPTIONS

Avago implemented Pure Storage's FlashArray FA-420 in three phases, starting with its primary data centre in Singapore, followed by the testing hub and data recovery center. The FA-420 array is simple to implement with the entire set-up at each location taking less than a week – starting from initial hardware deployment all the way to operational application database environment.

“Deployment was simple and painless with Pure Storage FlashArray. Set-up was completed in less than half a day and the data migration took fewer than five days! The Pure Storage implementation was such a breeze compared to our legacy system which needed up to a week to set up, while data migration took up another week. We are also very happy with the prompt and professional sales and technical support we received throughout the deployment and even post-implementation. As a result of the smooth deployment, we were able to continue business as usual without any disruptions,” said Amos Chua, Senior IT Manager, Avago Technologies.

DELIVERING BUSINESS VALUE

Avago Technologies was able to cut its storage hardware from five racks to just one at each of its three locations, translating to a reduced space and power consumption footprint. The high performance and inline data reduction techniques, including deduplication and compression, means that the Pure Storage solution now offers Avago greater cost savings as more instances of Oracle databases are consolidated.

Avago's IT team can now load more than double the amount of data into the FlashArray compared to the legacy system due to the improved deduplication and compression technologies.

“We can now load more ERP applications onto the same storage system without having to worry about space constraints or performance issues. With our legacy system, we were consistently running at almost full capacity, even though we had 30TB of space. However, with Pure Storage FlashArray's high data compression rate and inline deduplication, we migrated the same amount of data, yet we are only utilizing 6TB of space so far, out of a total of 12TB,” shared Amos Chua, Senior IT Manager, Avago Technologies.

With consistent sub millisecond performance across workloads, Avago is now able to generate reports in half the time and thus, delivering concrete value to the business.

In addition to the significant performance boost and increased uptime, Avago was also impressed by how easy it is to manage Pure Storage systems. Although new to all-flash arrays, FA-420's ease of use and straightforward set-up meant Avago's IT team is able to not only manage the storage environment themselves, but could also rack and connect the controller and storage shelves in less than 30 minutes. The company also benefitted from Pure Storage's FlashRecover which enabled IT to automate end-to-end protection management, therefore negating the need for additional headcount.

And downtime is a thing of the past. With Pure Storage dual controller, Avago's IT team can now perform maintenance and upgrades without any downtime or loss in productivity.

“We have had an extremely positive experience with Pure Storage, and look forward to continuing our close relationship in the future,” said Davidson.



PURESTORAGE

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