

# Harbour ISP Supercharges the NBN with Pure Storage

FlashArray Increases Space Efficiency 5X, Increases Speed by 10x

## The Challenge: A New, High Speed National Broadband Network that Needs High Performance Infrastructure

Harbour ISP is the 5th largest NBN service provider in Australia. The National Broadband Network (NBN) in Australia is a government led infrastructure project whose vision is to enable every citizen in Australia to have access to broadband internet. Using 93% fibre, 4% fixed wireless, and 3% satellite, the Australian government is well on the way to providing high speed access (up to 1,000Mbit/s) to the country, even to those in very remote areas.

As Harbour ISP ramped up their network, they needed the highest performance infrastructure to underpin the speed and data throughput of the NBN network.

Harbour ISP's existing storage solution was not the ideal fit for the data intensive, high performance throughput required by a super fast NBN network. To meet the growing demand for storage and performance, Harbour ISP looked to purchase an additional high end mechanical storage system but quickly found that rack space had become a bottleneck. And, like many enterprises, Harbour ISP did not have extra data centre space to spare.

The FlashArray is trivial to set up, easy to order, and gives us efficiency in the data centre we didn't think was possible.

**Charles Tym**  
Co-founder, Harbour ISP

## The Answer: Pure Performance Delivered in Less Space

When Harbour ISP decided they needed a new solution, co-founder Charles Tym began investigating flash storage as an alternative to mechanical disk. After eliminating hybrid solutions as ineffective, he investigated all-flash storage arrays for their reliability and performance. Combined with inline data reduction, Pure Storage offered the most compelling cost and efficiency for their use case.

Harbour ISP began their evaluation by testing the FlashArray on internal systems. This environment hosts a mixed workload including their CRM, MS Exchange, SCALA ERP, human resources, and financial systems. All these internal systems, which are delivered over Citrix, saw dramatic improvements in responsiveness. By moving to the FlashArray, Harbour ISP saw the start up times for some SQL-based databases drop from 30 seconds to just three.

## The Solution: All Flash, All the Way

Now, all of the internal systems of Harbour ISP run on the FlashArray, making it an all-flash enterprise. In parallel, Harbour IT, a major provider of Cloud Computing Services, is working with key customers to move customer workloads over to the Pure Storage FlashArray. With a rapidly growing customer base, Harbour ISP has been able to meet the stringent performance requirements of the NBN. Based on this change in infrastructure, Harbour ISP will be able to save over \$250,000 in reduced OPEX over three years while increasing their performance by 10x. What took two racks of storage can be run in 8RU - a remarkable decrease in costs and increase in performance and overall efficiency.



HARBOURISP

### SOLUTION

- Migrated all internal systems and ISP services to FlashArray FA-420

### SYSTEM IMPROVEMENTS

- \$250K in OPEX savings going forward
- Storage that utilised two racks can now be run on 8RU
- Total storage reduction: 7 TB on mechanical disk to 700 G
- Reduced SQL start up time from 30 seconds to 3 seconds

### DATA REDUCTION

