



CASE STUDY

REDUXIO HELPS DEVELOP HIGH PERFORMANCE NETWORKING

Industry: Technology | **Location:** EMEA |
Use Case: Virtualization, Test & Development



CHALLENGES

- Engineering requirement for shorter software build times.
- Expanding product line left limited headroom for growth with existing storage infrastructure.
- High RPO/RTO in case of errors or external attacks.

SOLUTION

- Improved performance by deploying Reduxio HX550 enterprise flash storage.
- Instant fine-grain data recovery using BackDating®.

BENEFITS

2X Faster Software Builds



Compiling source projects with flash-first storage

10X Faster Data Recovery



Reduced recovery time from failures or malware attacks

3X More Space



Expanded system capacity with Reduxio NoDup® inline, in-memory dedupe and compression

CUSTOMER PROFILE



Founded in 1988



Installed base of over \$2B in high speed networking



Over 1,000 global customers

ABOUT MRV COMMUNICATIONS ENVIRONMENT

MRV Communications (acquired by ADVA Optical Networking) is a global supplier of packet and optical solutions that power the world's largest networks. MRV products combine innovative hardware and intelligent software to make networks smarter, faster and more efficient. MRV enables service providers, data center operators and large enterprises to cost-effectively evolve their networks to address mission-critical applications, such as high-capacity cloud and data center connectivity, business services, mobile backhaul, and migration to NFV virtualized and SDN programmable networks.

MRV is headquartered in Southern California with research and development facilities outside of Boston and in Israel.

The company's main R&D center, located in Israel is where the company's next generation packet, optical, converged networking and carrier grade networking solutions are developed. MRV's development projects are stored on source control management platforms. High performance physical and virtual servers are used to build the different products multiple times a day.

The storage was distributed between legacy NFS and iSCSI storage systems, and direct attach storage arrays. For data protection and disaster recovery a disk-to-disk-to-tape solution with traditional backup software was used.

BUSINESS TRANSFORMATION CHALLENGES OUTDATED INFRASTRUCTURE

MRV has recently decided to transform its business and strategically focus on its network equipment business. The continued success in providing end-to-end solutions to large, global and regional service providers as well as carrier neutral providers (CNPs) was a direct result of the enhancements made to the product portfolio. As more projects were being developed concurrently, the outdated storage infrastructure could not deliver the desired performance and agility to match this growth.

Software builds became slower limiting developers to only a single compilation a day, and increased access times to virtualized applications affected engineers' productivity. In addition, whenever there was any issue with an application, considerable time was spent in diagnosing issues and in recovery.

This led Avshalom Sidner, IT Manager at MRV, to look for solutions to address the performance issues.

Upgrading the most recently acquired NFS and iSCSI based storage system was the most intuitive option, however this would not provide any better recoverability, and only provide marginal performance improvement.

Storage software would have required the MRV IT team to integrate the hardware and software, and concerns about total cost of ownership meant these solutions were out of the question.

The integrated Reduxio solution with simplified management immediately appealed to the MRV team.

“ To accelerate our development cycle we realized that we have to upgrade to flash-based solution. We selected Reduxio because it provides an intergrated solution that enables us to implement flash for all our applications and services, immediately, without having to build anything on our own.

Mr. Avshalom Sidner, IT Manager at MRV Communications

TRANSFORMING STORAGE INFRASTRUCTURE

The Reduxio HX550 was implemented as a storage system for multiple virtualized end-user applications and core development servers, including the build environments and

“ We were able to use the system within minutes, observed amazing performance, and never needed to open any guide to use it. That cannot be said of other storage systems we know of.

Mr. Avshalom Sidner, IT Manager at MRV Communications

the source code management servers Atlassian Bitbucket, Plastic SCM and SVN. Build performance has more than doubled on the Reduxio system.

As a global company, MRV is highly dependent on Internet connections and inter-site communication. The recent wave of security attacks and ransomware has become an additional concern for the IT department. Reduxio's BackDating is now used as the first line of protection against such issues, and will allow MRV to recover even from the worst attack in no time.

“ The rise of cybersecurity attacks is a major concern to us. We cannot afford applications going down for days. Reduxio offers us a straightforward, built-in answer.”

Mr. Avshalom Sidner, IT Manager at MRV Communications

SOLUTION COMPONENTS

REDUXIO PRODUCTS

- 1x Reduxio HX550 storage systems
- Reduxio StorApp for VMware vSphere

ENVIRONMENT

- VMware® ESXi 5.5 cluster
- Linux Ubuntu LTS
- Microsoft® Windows Server 2012 R2
- VERITAS® Backup Exec, Veeam® Backup & Replication
- SVN, Plastic SCM, Atlassian® Bitbucket
- JetBrains® TeamCity

