



Case Study

# Construction Consultants Select Exos to Streamline Innovation

How one firm is saving time and money with simplified storage.

Construction consulting firm HRS has pioneered engineering technology and in-house, open-sourced systems to provide its team, subcontractors, and clients with fast and secure tools. However, this increased the need for a data storage system that would improve performance and security and ensure teams could access data even during a natural disaster. Seagate Exos storage systems met these demands and more.

- **Massive capacity in a small footprint.**
- **High read/write speeds with little tuning.**
- **Reduced storage management costs by 40%.**
- **Eliminated old NAS and six tower servers.**



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Their Story

## Building roads, bridges, and tunnels with safety in mind.

HRS is an engineering consulting firm focused on the construction and safety of roads, bridges, and tunnels. With a mission of protecting lives and enriching local communities, the company provides essential services, such as surveys, structural and accessory inspections, information processes, data analysis, and other information system proposals and deliveries.



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Their Goal

## Pioneering cutting-edge construction solutions.

From drones and terrestrial lasers to 3D and VR, HRS is constantly implementing new technology to improve performance and safety. These solutions collect more data than ever—and HRS has had to find a way to store this critical data.



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Their Challenge

## Data storage issues were hindering business.

Due to an ever-growing collection of data and complicated storage management, HRS's IT system grew disjointed. Simple acts like adding storage were time-consuming and impacted company productivity. And, since over 30% of their employees worked remotely at any given time, HRS needed to support growing telework with multiplexed communication lines, transitioning to IPv6, and deploying VPN.

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Their Solution

## Efficiently storing a growing collection of data.

"We knew we'd never be able to improve efficiency with a system that makes people wait. That's why I knew it was time to upgrade the storage system, along with our networking system," said Takafumi Suzuki, company president.

Suzuki knew from experience that depending on a cloud for all its data needs was risky due to the fact that severe natural disasters such as earthquakes have the potential to cut off access to critical data that keeps the organization operating.

HRS landed on Seagate's Exos X 2U12, a RAID storage system, and Exos E 2U12, a petabyte-class JBOD system. Suzuki chose Exos products for several reasons: they have excellent speed, are cost-efficient, and are easy to integrate with HRS's current systems. Plus, the systems' default tolerance level would keep HRS resilient against earthquakes thanks to Seagate's fast rebuild ADAPT feature.

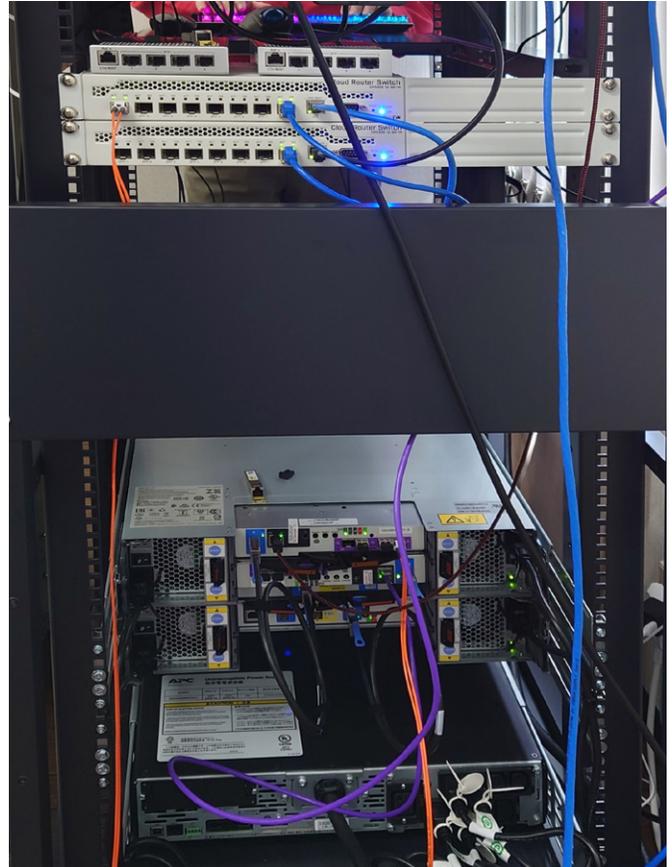


Their Success

## Saving time and money while simplifying workflows.

HRS's storage solution enabled them to dispose of obsolete hardware and consolidate physical servers, improving performance and costs. More than that, though, was the psychological cost savings of simplifying storage architecture, making it easier to design the network and isolate any issues.

- Installed two arrays of 216TB and two units at two locations.
- Achieved sequential read/write speeds above the theoretical value of 10Gbps with little tuning.
- The simple system reduced the cost of managing storage by 40%.
- Disposed old NAS and eliminated six tower servers.



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**“The fact that Seagate’s storage can rebuild and continue working even in times of disaster is very attractive.”**

TAKAFUMI SUZUKI, HRS PRESIDENT



## Products Used



**EXOS X 2U12 RAID SYSTEM**  
Advanced data protection, capacity, and performance for smaller deployments.



**EXOS E 2U12 JBOD SYSTEM**  
The ideal platform for efficient growth, performance, and high capacity at an affordable price.



**Ready to  
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