



CUSTOMER STORY



Hyundai Engineering Co., Ltd.

Hyundai Engineering increased operational efficiency and reduced costs by establishing an integrated backup system.



Commvault® Cloud Backup & Recovery empowered Hyundai Engineering an integrated management environment for its backup system.

At A Glance

Industry
Engineering

Headquarters
Seoul, Korea

URL
www.hec.co.kr/en

In Numbers

- Employees: 7,414+
- Affiliates & Branches: 62
- 50 years of innovation

Environment

- Data protection for infrastructure, such as physical servers, Nutanix, VMware, Citrix Xen virtual servers, and AWS cloud, as well as applications and platforms including a wide range of types of Operating Systems (OS), Database (DB), and Network Attached Storage (NAS)
- 190 TB of data across 570 OS-based devices with multiple domestic and international facility locations

CHALLENGE

- Broad backup and recovery systems compatibility was required across various coexisting platforms and applications.
- Automated backup reporting was required for integrated monitoring and convenient management of company data.
- Existing backup solution, EOS, offered opportunities to streamline license management and reduce operating costs by eliminating hardware lock-in.

SOLUTION

- Unified the management point by consolidating the backup and recovery system from three existing backup and recovery solutions to a single Commvault Cloud Backup & Recovery.
- Configured a high-performance customized backup system designed according to the company's specific capacity and performance requirements.

RESULTS

- Backed up and restored 570 OS-based devices and 190 TB of and more than 40 TB of spare space secured through deduplication.
- Reduced initial backup solution license and hardware introduction costs by more than 30% based on 5-year TCO.
- Issues, such as a backup failure, can be immediately resolved and restored from a remote location, increasing operational efficiency.
- Consolidated management of OS, DB, and NAS platforms into a single integrated administrator interface for backup, recovery, remote replication, and dissipation tasks.

Hyundai Engineering was launched as Hyundai General Technology Development in 1974 and is Korea's leading company in global comprehensive engineering. The company provides optimal engineering solutions by utilizing cutting-edge IT technology to build integrated systems from design to construction and achieve the vision of being the Global Premier Engineering Partner. Hyundai Engineering provides world-class engineering services in 47 countries in regions spanning Europe, Asia, the Middle East, North America, South America, and Africa.

A backup and recovery system that integrated management of multiple platforms

Hyundai Engineering promoted the Integrated Backup System Advancement project for integrated backup recovery and central management for its Paju IDC, Seoul Gyedong headquarters IDC, design office, overseas sites, and public cloud.

As Hyundai Engineering expanded its business, introducing a wide variety of platforms and applications, it required a backup and recovery system that was broadly compatible.

It was necessary to build an integrated backup and recovery system that was highly compatible with infrastructure such as physical servers, Nutanix, VMware, Citrix Xen virtual servers, and AWS cloud, as well as with applications and platforms such as various types of OS, DB, and NAS.

If situations arose where recovery was required due to file loss because of a sudden failure or external cyberattack, business continuity could not be guaranteed if there was no backup copy of the data at that time or if recovery was complicated. Accordingly, automated backup reporting was also needed for integrated monitoring and convenient management of the backup and recovery status of all company-wide servers operated at home and abroad.

Hyundai Engineering previously used three backup and recovery solutions for servers: OS/Data backup and recovery and specific virtualization server backup. Existing solutions could backup and restore servers in domestic IDCs. Still, they needed to support the backup and monitoring servers located overseas, in remote locations, or on various new virtualization platforms, which made it necessary to consider purchasing additional solutions.

In situations where the license of the existing backup solution had reached the End of Service (EOS) point and must be considered for upgrade or replacement, it was necessary to minimize the complexity of license management and reduce operating costs by eliminating hardware lock-in.

Accordingly, in line with Hyundai Engineering backup construction and operation policy, the company reviewed solutions comprehensively from three companies, including Commvault. The evaluation criteria included ease of integrated management, technical excellence, expansion compatibility, investment, and operating costs. In the end, Hyundai Engineering opted for Commvault Cloud.

DaYoung Lee, Assistant Manager of Hyundai Engineering IT Support said, "For Hyundai Engineering, it was most important to build and operate a backup system that allowed integrated central management of various platforms and resources such as centers, offices, and overseas sites without hardware restrictions and had reasonable construction and maintenance costs. Commvault has high compatibility, ease of integrated management, and a strong technical support system, which is key in establishing an optimal integrated backup management system."

A backup and recovery system that integrated management of multiple platforms

Hyundai Engineering moved from using three backup recovery solutions for existing servers, OS/Data backup recovery, and specific virtualization server backup to a single solution with a unified management point. The entire server, OS, DB, and NAS platforms were integrated and consolidated into one administration interface for tasks such as backup, recovery, remote replication, and dissipation.

Hyundai Engineering deployed Commvault to back up and restore 570 OS-based hardware units encompassing 190 TB of data. Hyundai Engineering conducted primary deduplication backup on local disks and secondary backup, dissipation, and deduplication work on NAS storage. The total data was reduced through the integrated management of data being used across the company and eliminating duplication, and actual usage capacity could be accurately measured. This allowed more than 40TB of spare space to be secured compared to the existing solution, making it possible to expand the backup target.

Reduced license and hardware acquisition costs by over 30%

Hyundai Engineering proactively developed an IT roadmap by reviewing the reasonable license unit introduction and operating costs proposed by Commvault. They purchased CPU/RAM/SSD/HDD according to its capacity and performance requirements, configuring a high-performance customized backup system.

Following this roadmap, the initial backup solution license and hardware introduction were reduced by more than 30% based on a 5-year TCO.

While the OS/Data backup policy was previously applied uniformly across all platforms - physical, virtualization, and cloud - the new system protocols enabled data to be backed up according to the specific characteristics of each platform. In addition, cross-platform recovery functions such as P2V and P2C were deployed to enable recovery across different types of physical equipment in the event of a virtualization transfer or failure of a physical server.

Hyundai Engineering DaYoung Lee noted, "Integrated management is possible with Commvault, making it possible to prevent data leaks. Previously, engineers manually checked each backup history over several days, but now they can immediately see the desired results through Commvault's management console. Particularly, we can directly check the status by receiving and checking the backup report by email every day, and even if there is a small problem such as backup failure, you can immediately restore it from the Commvault server even from a remote location, increasing operational efficiency."

Hyundai Engineering plans to expand backup data in line with the expansion of virtualization and cloud infrastructure and data growth. It also plans to focus on increasing the data protection rate and operating a stable system by purchasing additional licenses from Commvault.



A significant drop
in cloud costs year-over-year



Reducing team resource needs by
more than half



With Commvault, operating a backup system that can always prepare for data loss is now possible. The biggest improvement in terms of operational efficiency is that integrated backup and recovery management for the entire infrastructure is now possible with a single solution. Now we can provide remote server backup and recovery support at overseas sites without accessing individual servers."

DaYoung Lee
Assistant Manager of Hyundai Engineering IT Support

Accelerate hybrid cloud adoption with an integrated solution with **Commvault Cloud HyperScale™ X**