

## Success Stories: Hitachi Data Systems Helps Businesses Successfully Transition to Microsoft® Exchange Server 2010



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### Meet the Storage Needs of Today's Midsized Organizations with Hitachi Data Systems Solutions

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For many organizations today, email represents a growing portion of their total data. Managing email complexity and growth is not just being seen in large enterprises. Organizations of all sizes may be required to retain email records indefinitely, deal with tougher service level agreements around email and count on email performance as a critical factor in conducting business.

For many medium to large organizations upgrading to Microsoft Exchange Server 2010, it is important for their IT infrastructures, including their storage, to provide the predictability, scalability and flexibility required for Exchange 2010 environments. Hitachi storage solutions fully embrace the latest Microsoft technologies, including database availability groups, and offer support for up to 10GB mailboxes with SAS and SATA disk drives.

The following success stories illustrate how Hitachi storage solutions for Exchange 2010 maximize the effectiveness of Exchange deployments for organizations of different sizes while reducing complexities, costs and risks.

## Airport Authority Upgrades to Microsoft Exchange 2010, Implements Hitachi Modular Storage to Ensure 100% Uptime

### Overview: The Search for a Scalable Storage Solution that Integrates with Exchange 2010

The airport authority for one of North America's busiest airports migrated to Microsoft Exchange 2010, leading to a need for a highly scalable, enterprise-class storage solution. Uptime of 100% was essential for the organization, supported by replication across two data centers. In addition, the organization sought a turnkey solution from a single provider that could be easily integrated with Exchange 2010 and the rapidly growing VMware environment. The airport authority eventually chose to move to Hitachi Adaptable Modular Storage 2500 (AMS 2500), Hitachi NAS Platform 3080, powered by BlueArc®, and Hitachi Data Provisioning software.

The Hitachi solution provides the powerful performance and capacity the organization needs to meet its storage needs over the next five to seven years. In addition, Hitachi Data Systems consulted with the organization to ensure the most efficient solution with the lowest possible total cost of ownership (TCO).

### Challenge: Find a Solution that Integrates and Scales Easily

The airport authority was under significant pressure to find and implement a storage infrastructure that would provide 100 percent uptime on a 24/7 basis. The infrastructure needed to integrate seamlessly with



both Exchange 2010 and VMware. It had to support multiple operating systems and provide scalability to support the organization's continued growth and expansion, including the upcoming addition of video surveillance. Along with the focus on performance, features and scalability, the organization also needed to keep costs down and meet a tight budget without making any compromises to the integrity or reliability of the storage solution.

### Solution: Hitachi AMS 2500 Systems, Hitachi NAS Platform 3080 Systems, Hitachi Data Provisioning Software

After an initial RFP and follow-up presentation, the airport authority selected Hitachi Data Systems to provide the new storage

architecture. The organization implemented Hitachi AMS 2500 storage systems and Hitachi Dynamic Provisioning at two sites. With the new system, Exchange 2010 and other application loads can be distributed across Hitachi Dynamic Provisioning pools, which dynamically address storage capacity and performance requirements. During the follow-up presentation, Hitachi Data Systems also showed how the architecture could be tailored, in part through the addition of two Hitachi NAS Platform 3080 systems, to eliminate the previously assumed need for solid state disk (SSD) and reduce the TCO. The Hitachi NAS Platforms also work with Hitachi AMS 2500 to address both block and file services, with the ability to expand to tiered storage.

Hitachi Data Systems ensures uptime, improves performance and lowers TCO as it helps midsized enterprises in any industry get the most from Microsoft Exchange Server 2010.



Hitachi Adaptable Modular Storage 2000 family systems with Hitachi Dynamic Provisioning software provide the essential characteristics for a highly resilient Exchange environment.



### Results: Low TCO, 100% Uptime

The airport authority was looking for a vendor that could provide a completely reliable, enterprise-class storage system, as well as the vision to ensure scalability for the next five to seven years. The solution from Hitachi Data Systems provided that and more. The Hitachi AMS 2500 provides 99.999% data availability with no single point of failure, and scalability up to 480 disk drives. And the complete solution, including Hitachi NAS Platform 3080 and Hitachi Data Provisioning, delivers features and TCO beyond the customer's initial expectations. The airport authority was particularly impressed with the service delivery capabilities of Hitachi Data Systems and depth of understanding of the organization's stringent requirements. The consolidated, single-vendor solution is easy to manage, provides tight integration with both Exchange 2010 and VMware and gives the airport authority confidence that it can provide 100 percent uptime service levels for years to come.

### Airline Upgrades to Microsoft Exchange 2010, Minimizes Risk and Expects a Breakeven ROI in 18 Months with Hitachi Modular Storage

#### Overview: One Vendor Stands Apart

For years, the Australian branch of a global aviation leader had used a variety of IT vendors and had suffered embarrassing outages and other problems. Hitachi Data Systems was the only vendor that had not overpromised and had provided continuously reliable service. When the airline decided to upgrade to Microsoft Exchange 2010, it chose to extend its commitment

to Hitachi Data Systems by implementing two Hitachi Adaptable Modular Storage 2500 systems and reusing other Hitachi storage systems for Exchange archive data. Expanding the role of Hitachi with the company was a natural progression of the relationship, based on six years of proven results. The current needs were to support 10,000 mailboxes and 28 databases across six database availability groups (DAGs) and provide scalability to meet the airline's long-term storage needs. The airline is now able to manage more than 500TB of data through a single interface over four sites, and operational costs are kept low because the new storage systems plug in to the existing management framework.

#### Challenge: Free Tier 1 Storage Capacity; Upgrade to Exchange 2010

The airline was struggling with a variety of challenges. For years, multiple storage vendors had failed to deliver the promised storage availability and reliability, which lead to embarrassing and high-profile problems, including a two-week outage of the booking system. In addition, funding for IT was limited because of rising fuel costs, recent natural disasters and other factors. At the same time, the airline needed to upgrade to Exchange 2010, in part to free up expensive Tier 1 storage capacity. A new storage infrastructure was needed that could integrate easily with Exchange 2010 and VMware, provide the needed performance, reliability and scalability, and do it all at an affordable price.

#### Solution: Hitachi AMS 2500 Systems, Hitachi Dynamic Provisioning

To address its storage infrastructure needs, the airline signed a 12-month contract with Hitachi Data Systems services to provide

managed services, including two onsite consultants. The airline also implemented two Hitachi AMS 2500 systems: one for production and one for disaster recovery. The dedicated modular storage systems integrate easily with Exchange 2010 and VMware, and Hitachi Dynamic Provisioning software enables workloads to be combined in a single storage frame for greater flexibility. The solution provides a centralized management platform that is consistent with the existing platform. It also meets the airline's current need to support 10,000 mailboxes and 28 databases across six DAGs, and provides scalability to meet the airline's long-term storage needs.

#### Results: Dramatically Improved Performance and ROI in 18 Months

The airline chose to expand its commitment to Hitachi Data Systems because Hitachi solutions had been the most reliable component in the airline's architecture for more than six years. The Hitachi AMS 2500 is a cost-effective solution that provides 99.999% data availability with no single point of failure. It is expected to provide breakeven return on investment (ROI) within 18 months. Hitachi Dynamic Provisioning software works with Hitachi AMS 2500 to dramatically improve storage performance, capacity utilization and management. The consolidated, single-vendor solution frees up expensive Tier 1 storage, is easy to manage and provides tight integration with both Exchange 2010 and VMware. The solution gives the deeply risk-adverse airline confidence that it can provide 100% uptime for years to come.



## Hitachi Data Systems Helps Organizations of All Sizes, and in Any Industry, Get the Most from Microsoft Exchange Server 2010

Hitachi solutions for Microsoft Exchange 2010, which feature Hitachi Adaptable Modular Storage 2000 family systems, are a smart choice for addressing the key business challenges of a medium business environment. These Hitachi systems provide industry-leading capabilities that are essential for Exchange 2010 resilience, including 99.999% availability and Hitachi Dynamic Provisioning.

Hitachi solutions for Exchange 2010 deliver the predictable performance and availability as well as the dynamic scalability and flexibility organizations need to achieve the most from an Exchange environment today, and as their needs evolve in the future.

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