



### TOP FIVE ADVANTAGES

1. Optimized Consolidation
2. Improved Performance, Management and Efficiency
3. Increased Availability and Business Resilience
4. Accelerated Application Deployment and Data Migration
5. Simplified SAP Data Lifecycle Management



## Hitachi Data Systems enables growth, speeds deployment and reduces the risk and cost of your SAP application environment.

Today, organizations are generating information at a higher rate and retaining it over longer time periods to meet regulatory and business requirements. As a result, the costs of managing mission critical SAP environments are climbing rapidly. To add to the challenge of managing SAP environments, many organizations deploy SAP applications in multiple landscapes that run in parallel. As more applications are being integrated for employees, partners, customers, suppliers and events, these application landscapes become very complex.

To maintain continuity of operations and consistency of information across SAP landscapes, and to reduce capital expenditures (CAPEX) and operating costs (OPEX) for these growing SAP landscapes, organizations are recognizing the need for an available, scalable storage foundation for SAP.

Hitachi Data Systems storage hardware, software and services provide the capability to meet your service level agreements, enable growth, speed deployment and reduce costs of your SAP application environment.

SAP's three tier architecture spreads the workload across the tiers, enabling extended growth and flexibility. The Hitachi storage infrastructure can provide significant value to SAP environments by expanding SAP's three tier architecture to a fourth tier for storage.

To take best advantage of the features of Hitachi storage, perform storage related functions in a fourth SAP tier dedicated to storage. With storage virtualization, dynamic provisioning and advanced business continuity technology from Hitachi Data Systems, thousands

of organizations worldwide have already optimized their environments for maximum business and IT benefit.

But the value does not end there. It extends across the data center from storage to servers. Following are the top five business reasons organizations are choosing

hardware, software and services from Hitachi Data Systems for their SAP environments, to increase value of their SAP storage infrastructure investment.

## TOP 5 ADVANTAGES

### 1. Optimized Consolidation

The scalability of the Hitachi Universal Storage Platform® V and Universal Storage Platform VM enables multiple SAP landscapes to easily be maintained in a single storage system. For many SAP customers, based on storage management and floor space requirements, a single storage system is the preferred solution and helps with moving data across landscapes. To address quality of service concerns for the production landscape, Hitachi storage systems use storage partitions and multiprotocol connectivity. The storage partitioning capabilities of the Universal Storage Platform V and Universal Storage Platform VM ensure that the quality of service (QoS) for the production landscape is not affected by any event in other environments. This feature enables you to take advantage of the benefits of a consolidated environment. The multiprotocol connectivity provides the ability to service multiple I/O connectivity requirements from a single storage system.

### 2. Improved Performance, Management and Efficiency

The experience of Hitachi Data Systems consultants has been that approximately 60 percent of all performance issues in SAP deployments can be traced to the storage infrastructure. When a storage related performance issue arises, it's tempting to dive into the storage infrastructure to isolate and resolve the problem. However, that is a tactical approach. It does not address the strategic error that is the root of the problem. A successful strategy is to design an environment that consistently delivers high performance and can grow as the SAP implementation evolves. The most cost-efficient storage strategy is to create a solution with defined data levels and storage tiers that match the data levels.

Thin provisioning can significantly improve performance. Data is allocated across the pool as it is written, which spreads the I/O load across all of the spindles in the pool and delivers improved performance. A key concern in SAP deployments is the growth of the storage infrastructure with no increase in the storage management staff. A majority of the repetitive efforts of the storage team

are focused on storage allocation. Hitachi Dynamic Provisioning software provides critical technology to simplify the storage allocation process and improve performance.

### 3. Increased Availability and Business Resilience

Hitachi Data Systems provides high availability for SAP environments. The Hitachi storage solutions help avoid both scheduled and unscheduled downtime, and ensure that SAP environments can scale quickly with easy-to-manage replication to protect mission critical SAP data. The ability to replicate SAP data at the storage level is the most valuable advanced technology in the storage infrastructure. The primary value is that it helps ensure QoS of the production environment.

### 4. Accelerated Application Deployment and Data Migration

The fact that most SAP implementations require 24/7 availability implies that any disruption, planned or unplanned, is a major concern. Traditionally, application deployment, hardware and software upgrades require significant planning efforts to limit downtime and business disruption. Critical upgrades can be delayed significantly if a sufficient downtime window is unavailable. Replication and migration solutions from Hitachi Data Systems dramatically reduce the planning and downtime required to perform application deployments and infrastructure upgrades. When combined with the ability to integrate external storage into the infrastructure, most migrations can be done with no effect on application availability.

### 5. Simplified SAP Data Lifecycle Management

Businesses that use SAP face ever increasing reliance on unstructured content, growing database sizes with resulting performance impacts and data retention requirements for regulatory and governance compliance. The Hitachi Content Platform is the ideal storage foundation to improve the management of SAP data throughout the lifecycle of the data. With the Native SAP information lifecycle management (ILM) interface with SAP NetWeaver, Hitachi Content Platform simplifies the data archiving process with SAP.

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