

## Migration Services from Hitachi Data Systems

Manage your entire migration process and lower your risk: address people, process and technology, meet business requirements and minimize business disruption.

### Reduce Costs and Risks, Optimize Migration

#### The Migration Challenge

The adoption of new technologies is essential to improve performance and availability and to stay competitive. Yet, migrating to new technologies presents significant challenges. It is more than just migrating the data: it is people and process considerations.

- **Unexpected or Extended Downtime.** Detailed and careful planning must take place to satisfy business priorities, disaster recovery and application data requirements. It is also essential to identify windows in which downtime is acceptable and to ensure that there is no disruption to the business.
- **Schedule Overruns.** According to participants in a recent survey, only 64% of data migration projects were completed on time.
- **Budget Overruns.** As with all IT projects, a significant risk is the cost associated with a budget overrun. For that matter, overruns can directly affect budgeting for other IT projects as well as the profit-loss statement for the business.

Migration Services from Hitachi Data Systems help you to:

- Manage the entire migration process
- Lower your risk during the migration
- Lower costs for the migration

#### Migration: Many Phases, One Holistic Approach

Our consultants leverage multiple techniques, matching the best option to requirements. They transparently move data between heterogeneous storage systems while servers stay online and applications keep running. This allows productivity levels to remain untouched.

Our consultants oversee the entire project and manage communications and expectations in the following phases:

- **Assess** (Audit and Remediation). We review the project scope, deliverables and methodology, and define the overall migration and transition objectives. We also discover and audit the current environment. We leverage a unique agentless tool to programmatically scan the environment or to take outputs from similar discovery tools. In fact, our tool accelerates discovery.

- **Plan and Design.** We develop the precise migration solution and plan.
- **Implementation and Test.** We perform preproduction migration testing, verification and validation of the data migration.
- **Conduct Migration.** We migrate data and applications onto the new environment.
- **Integration.** We provide full integration of the new environment with other systems and applications, and implement advanced capabilities.
- **Manage and Optimize.** This critical phase is where our experts provide information on new tools, design and concepts. They also prepare operational “runbooks” and complete an overall project review.

#### Migration Techniques

Of the many techniques to migrate data, the most common is host-based. With server virtualization, hypervisor software (also called virtual machine monitor), like VMware, can assist with the data migration; however, the process is not as fast as migration within storage. Our experience with the following techniques or methods makes it possible for us to employ the most cost-effective and risk-mitigating approach:

- **IP-based Host-based Migration Using Replication Technology (not array-based replication).**
- **Host-based Migration — Block.** We use a number of tools, including VMware and Veritas Logical Volume Management.
- **Host-based Migration Using Server Virtualization.** This includes VMware and IBM® System Storage® SAN Volume Controller (SVC).
- **Host-based Migration — File Copy and NAS.** Tools include: Hitachi NAS Platform, powered by BlueArc®, Secure Copy, Hitachi Dynamic Replicator software, Arkivio auto-stor and Robocopy.
- **File System-based Data Replication.** We employ a number of platform-specific tools, including InMage, and NAS-specific tools, including Hitachi NAS Platform, Incremental Data Replication, NetApp SnapMirror and EMC Celerra Replicator.
- **Appliance-based Migration.**

With our focus, approach and experience, Hitachi Data Systems frees our customers to attend to higher priority work that is closer to their core competencies.

## Dramatically Reduce Migration Costs, Risks and TCO

While any migration requires careful planning and design, as well as meticulous execution, virtualization enables migration to happen in a way that is minimally disruptive and poses fewer risks than other migration methods.

## Why Hitachi Data Systems?

Our service teams...

- Assist organizations in making the right decision to reduce cost, minimize risk
- Offer significant expertise in migration, data replication and business continuity
- Coordinate and manage large-scale migrations

## Hitachi Data Systems Corporation

### Corporate Headquarters

750 Central Expressway  
Santa Clara, California 95050-2627 USA  
www.hds.com

### Regional Contact Information

**Americas:** +1 408 970 1000 or info@hds.com  
**Europe, Middle East and Africa:** +44 (0) 1753 618000 or info.emea@hds.com  
**Asia Pacific:** +852 3189 7900 or hds.marketing.apac@hds.com

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## MIGRATION SERVICES PROOF POINTS

### Migration Statistics

- Thousands of successful local and remote data migrations
- 25% 1PB+ SAN and 500+ servers: largest included 5000+ servers and 2PB+
- Transitions from EMC, IBM, HP, NetApp and others

### Telco Provider Migrates Large Data Warehouse in Mission Critical Data Center

#### Situation

- Migrate data to virtualized storage from one data center to another data center within very tight business timelines.

#### Solution

- Replicate virtualized storage to virtualized storage over 50km without impact on production.
- Take a best practices approach to replicate and migrate data using block-based remote data migration.

### Bank Migrates Open Systems and Mainframe Data from Old Storage Equipment

#### Situation

- Migrate multiple third-party storage systems attached to 50 mainframe and open systems servers consisting of greater than 70TB of data to Hitachi Universal Storage Platform® V.

#### Solution

- Virtualize existing storage with Universal Storage Platform V technology.
- Migrate data to a new storage system in the background, reducing application downtime, as well as customer effort and involvement.

- Help plan, execute and perform knowledge transfer so each company's staff can do the rest on their own
- On average, move 500% more servers and storage in an average migration event, resulting in consistently faster overall migrations

## Offerings to Accelerate Your Success

Hitachi Data Systems Global Services offers market-leading storage consultants, proven methodologies and a comprehensive portfolio of services to help you manage your storage infrastructure. Our broad spectrum of offerings includes assessment and consulting, planning

and design, implementation, health checks, ongoing management and operations, and education and support services to help you meet your defined goals.

## Your Success Is Our Top Priority

From meeting your requirements to consolidate, virtualize and realize the benefits of your new technology to implementing change management best practices or augmenting the skill sets of your storage team — Hitachi Data Systems Global Services can help.

Take the next step and contact Hitachi Data Systems to see how we can accelerate your time to success. Visit [www.hds.com](http://www.hds.com).