

Hitachi delivers the industry's best self-service nondisruptive migration capabilities to accelerate data center infrastructure transformation. Built on Hitachi Command Suite (HCS) management software, the solution enables large-scale migration that requires less time and effort to execute. It ensures continuous operations, application quality of service, and data protection.

Hitachi Command Suite Nondisruptive Migration

Fast, Secure and Efficient Migrations

Today's data center operations are labor intensive and often prevent IT teams from moving quickly enough to keep pace with changing needs of business. Typical data centers with infrastructure silos built around specific applications or technologies limit IT agility. Organizations are challenged to maintain IT operations, adopt newer technologies and navigate through migration complexities without disruption to end users or applications.

IT managers need more effective ways to accelerate their infrastructure transformation to win in tomorrow's information-centric world:

They need approaches that exploit information without being overwhelmed by data or held back by slow IT infrastructure. To meet these challenges, IT requires large-scale migration capabilities that require less time and effort to execute and deliver continuous operations, while ensuring application quality of service and maintaining data protection.

Hitachi takes the lead with its migration capabilities and enables a fast, secure and efficient journey. The data center transformation to a software-defined infrastructure (SDI) is vital to business competitiveness because it provides the automation for simplicity. It brings more access to data

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for insight, as well as abstraction for greater agility that businesses need to run and grow, quickly and efficiently.

Nondisruptive Migration

Hitachi offers the industry's best non-disruptive migration capabilities in two options. Organizations can choose the service that Hitachi Data Systems Global Services Solutions (GSS) offers through its migration center of excellence team, or self-service delivery built on Hitachi Command Suite management software. Both options accelerate data center infrastructure transformations by leveraging Hitachi's latest enterprise storage technology. These offerings enable large-scale migration capabilities that require less time and effort to execute and deliver continuous operations, while ensuring application quality of service and maintaining data protection.

Hitachi builds both of these nondisruptive migration offerings on Hitachi Storage Virtualization Operating System (SVOS) and Hitachi's proven storage virtualization. It enables lower-cost nondisruptive migration, from previous generations of Hitachi storage to latest platforms in the Hitachi Virtual Storage Platform (VSP) family.

■ **Hitachi Command Suite nondisruptive migration option** is designed for experienced administrators, who prefer a self-service option for traditional one-to-one platform refresh.

■ **Nondisruptive migration service from GSS migration center of excellence team** is intended for more complex, large-scale, heterogeneous and replicated data center environments.

Hitachi's nondisruptive migration software capabilities and migration center of excellence capabilities accelerate transformation to future-ready infrastructures for fast, secure and efficient migrations, and deliver:

- **Nondisruptive technology refresh.** Enable application-transparent migration of hundreds to thousands of hosts more cost effectively compared to typical host-migration techniques or other array-based methods.
- **Automated quality of service.** Ensure application response time is maintained while data migration is ongoing, without manual intervention.
- **No recovery point or time objective (RPO/RTO) impact.** Maintain transaction integrity with support of source volumes with active replication and tailored migration job.

For more information about nondisruptive migration options contact your Hitachi Data Systems representative or visit www.HDS.com.

TABLE 1. HITACHI COMMAND SUITE NONDISRUPTIVE MIGRATION SPECIFICATIONS

Topology	Description
Supported source storage system migration to Hitachi Virtual Storage Platform (VSP) G1000	<ul style="list-style-type: none"> ■ Hitachi Universal Storage Platform (USP) V ■ Hitachi USP VM ■ Hitachi VSP
Supported iSCSI reservation type	<ul style="list-style-type: none"> ■ SCSI 2 and SCSI 3 group persistent reserve (GPR) ■ VMware atomic test and set (ATS)
Volume configuration support	<ul style="list-style-type: none"> ■ Hitachi Dynamic Provisioning ■ Hitachi Dynamic Tiering ■ Hitachi ShadowImage ■ Hitachi Universal Volume Manager
Operating system	<ul style="list-style-type: none"> ■ VMware: Native Management Pack (MP), Hitachi Dynamic Link Manager (HDLM) ■ IBM® AIX®: Microsoft® Multipath I/O (MPIO), Veritas Volume Manager (VxVM)-Dynamic Multipathing (DMP), HDLM ■ Microsoft Windows®: MPIO, VxVM-DMP, HDLM ■ Red Hat Enterprise Linux (RHEL): DM-MP, VxVM-DMP, HDLM ■ Hewlett-Packard UNIX (HP-UX): Native MP, PvLink, VxVM-DMP ■ Oracle Solaris: MPIO, VxVM-DMP, HDLM
Maximum number of source systems that can be migrated into one VSP family	7
Maximum number of jobs per migration	10
Maximum number of hosts per migration job	100
Maximum number of volumes per migration job	500
Hitachi Command Suite (HCS) server operating system	Windows//Red Hat Enterprise Linux/SUSE Linux
HCS client operating system	Windows/ Red Hat Enterprise Linux/SUSE Linux
HCS client browser	Microsoft Internet Explorer®/Firefox

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