



PlateSpin® Migrate: Multiplatform Workload Portability

PlateSpin® Migrate is a powerful workload portability solution from Novell that automates the movement of server workloads over the network between physical servers, virtual hosts and image archives. PlateSpin Migrate remotely decouples workloads from the underlying server hardware and streams them to and from physical or virtual hosts—all from a single point of control.

With the broadest multiplatform support for hypervisors and operating systems, PlateSpin Migrate provides organizations with a mature, proven solution for testing, migrating and rebalancing workloads across infrastructure boundaries from desktop to data center.

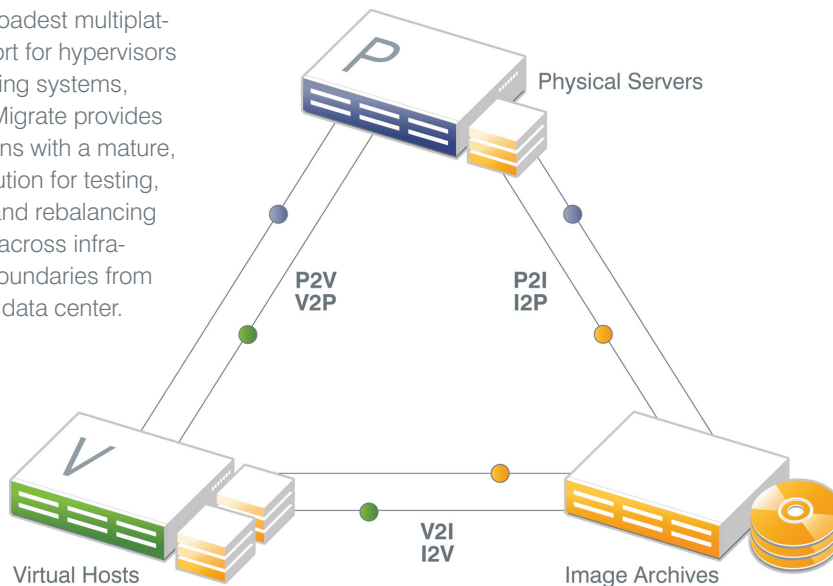


Figure 1. PlateSpin Migrate performs anywhere-to-anywhere workload migration with broad multiplatform support.

Legend: P2V—Physical-to-Virtual I2P—Image-to-Physical P2I—Physical-to-Image
V2P—Virtual-to-Physical I2V—Image-to-Virtual V2I—Virtual-to-Image

- **Solutions:**
Virtualization and Workload Management
- **Products:**
PlateSpin Migrate

PlateSpin Workload Management from Novell is a portfolio of enterprise-class products that simplifies the management of server workloads across today's mixed IT environments.





“The PlateSpin solution from Novell saved Essent about €2 million for the data center consolidation project alone. The solution also made it possible to complete our data center consolidation without any costly business disruption, and with considerably reduced risk.”

Marco Spoel
Project Manager,
IT Infrastructure
Essent

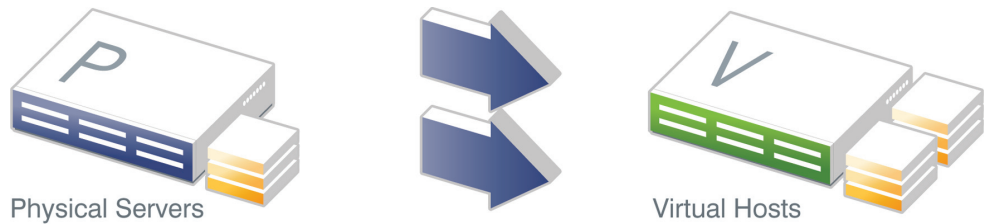


Figure 2. To reduce the risks associated with workload migration and avoid downtime, PlateSpin Migrate’s Server Sync capability enables live testing as an embedded part of workload migration with no disruption to production systems.

Anywhere-to-Anywhere Migration for all Workloads in the Data Center

Today’s data centers employ a mix of different hardware platforms, operating systems and virtualization technologies that must work together to drive operational efficiency, agility and business growth. Designed to handle the real-world complexities of mixed IT environments, PlateSpin Migrate reduces cost, complexity and risk in the data center by providing a unified approach to solving critical IT challenges.

PlateSpin Migrate Improves the Speed and Quality of Key Data Center Initiatives

Server and Data Center Consolidation
Consolidate workloads from physical servers to virtual machines or new hardware faster and more easily by automating the workload

migration phase of a server consolidation or data center consolidation initiative.

Hardware Lease Migration

Rapidly move workloads from end-of-lease servers to new high-performance hardware with fast and efficient physical-to-physical (P2P) workload migrations.

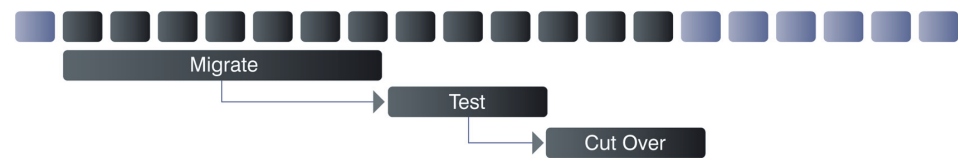
Data Center Relocation

Reduce the time and effort required for data center relocation by streaming live or offline server workloads directly from one location to another over the wide area network.

Server Provisioning

Add flexibility and agility to the data center by dynamically provisioning new servers and continually optimizing physical and virtual resources.

Without PlateSpin



With PlateSpin



Figure 3. PlateSpin Migrate allows for testing and validation as part of the migration process while still minimizing downtime. (Note: The black squares indicate downtime.)

Key Features

Anywhere-to-Anywhere Workload Migration

PlateSpin Migrate supports all of the leading virtualization solutions including VMware* ESX & ESXi, Microsoft* Hyper-V*, SUSE® Linux Enterprise with Xen*, Citrix* XenServer and Solaris* Containers, as well as multiple operating systems, hardware configurations and imaging technologies. PlateSpin Migrate automatically configures the server workload to operate on the target environment, making driver, kernel and other necessary changes.

Support for 64-bit Windows and Linux Workloads

PlateSpin Migrate allows organizations to migrate critical 32-bit and 64-bit Windows* and Linux* workloads across infrastructure boundaries. PlateSpin Migrate provides full support for Windows environments including 64-bit Windows 2003 and Windows XP workloads. PlateSpin Migrate also provides 64-bit Linux physical and virtual functionality for both SUSE Linux Enterprise Server and Red Hat* Enterprise Linux.

Block-level and File Replication

Block-level replication enables the movement of highly transactional workloads such as mail servers and database servers. With block-level transfer, only the portion of a file that has changed is replicated, making it ideal for incrementally synchronizing large database servers and enabling efficient offsite data transfers. For more static workloads, file-based replication provides fast, efficient and cost-effective workload migration while maintaining server uptime.

Server Sync

Reduce the risks associated with workload relocation projects like server consolidation and data center relocation. Perform an initial transfer to the target site or host, test the workload in the new location while continuing to run the source, and then perform a final sync before cutting over the workload. Server Sync also removes the necessity for a full system replication to dramatically accelerate workload migrations over the wide area network.

Scalability

On high-performance server hardware, PlateSpin Migrate enables up to 40 simultaneous workload migrations to dramatically reduce the time required to complete data center initiatives such as server consolidation or hardware migration.

Task-based Wizards/ Drag-and-drop Interface

Reduce learning curves and simplify workload migration with PlateSpin Migrate's drag-and-drop interface and intuitive built-in workflows. Task-based wizards for common actions and advanced job configuration capabilities make the process of configuring migration jobs and moving, copying and deploying workloads easier and more reliable.

On-the-fly Configuration

Reconfigure and right-size CPU, disk, memory and network resources on-the-fly to adjust to changing workloads and target machine resources.

PlateSpin Migrate: Multiplatform Workload Portability

www.novell.com



“The automated PlateSpin solution has saved us some 2,200 hours of configuration time and effort—that’s a savings of 300 work days or almost 17 months of labor for our IT team...”

Steve Houghton

*Infrastructure
Solutions Architect
Norwich Union IT Solutions*

Industry-leading Automation

Accelerate workload migration activities and reduce manual errors with the highest level of automation available for workload planning, testing and migration. Automate post-migration tasks through the use of custom batch files or user-defined scripts to minimize manual intervention and free up valuable IT resources for other tasks.

Multiple Image Support

Reuse and redeploy PlateSpin Flexible Images or leverage existing third-party image inventories over and over, across different hardware for quick conversion deployment. Capture the image once, reuse it repeatedly.

Role-based Access

PlateSpin Migrate includes a range of security features including user authentication, authorization and logging so that system administrators can effectively manage and monitor user activities, assigning the right privileges to the right users.

Cohesive Planning and Execution

PlateSpin Migrate works in tandem with PlateSpin Recon, the Novell® analysis and planning solution, to provide the only solution that automates the assessment, planning, testing and migration phases of a successful data center initiative.



Contact your local Novell Solutions Provider, or call Novell at:

1 800 714 3400 U.S./Canada
1 801 861 1349 Worldwide
1 801 861 8473 Facsimile

Novell, Inc.

1800 South Novell Place
Provo, UT 84606 USA

Server Operating Systems	Desktop Operating Systems	Hypervisors	Hardware Vendors (Standalone and Blade Servers) [†]
<ul style="list-style-type: none"> ■ Windows 2008 (32 and 64-bit) ■ Windows 2003 (32 and 64-bit) ■ Windows 2000 ■ Windows NT 4 ■ Windows XP Pro (32 and 64-bit) ■ SUSE Linux Enterprise Server (32 and 64-bit) ■ Red Hat Linux (32 and 64-bit) ■ Sun* Solaris (Sparc*) ■ Novell Open Enterprise Server 2 	<ul style="list-style-type: none"> ■ Windows Vista* (32 and 64-bit) ■ Windows XP pro ■ Windows 2000 	<ul style="list-style-type: none"> ■ VMware ESX ■ VMware ESXi ■ Microsoft Hyper-V ■ SUSE Linux Enterprise with Xen ■ Citrix XenServer ■ Solaris Containers 	<ul style="list-style-type: none"> ■ Sun ■ Dell ■ HP ■ IBM ■ Unisys ■ Cisco ■ Others

[†]Contact PlateSpin for current hardware compatibility