



**Anywhere-to-anywhere automated conversions between physical servers, virtual machines and image archives.**

PlateSpin PowerConvert provides the flexibility to configure and optimize the data center by streaming servers between physical machines, blade infrastructures, virtual machines and image archives over the network. PowerConvert is the first and only solution that decouples data, applications and operating systems from the underlying server hardware and automatically streams them to any physical or virtual machine.

PowerConvert removes the dependency between the x86 hardware infrastructure and the server software installed on it. Match service level requirements with available resources regardless of hardware or operating system and rapidly reconfigure and optimize servers – all from a single point of control without ever having to be in physical contact with source or target machines.

**Continuous server consolidation using blades or virtual machines**

**Disaster recovery using physical or virtual machines**

**Seamless upgrades to VMware Infrastructure 3**

**Server migration between heterogeneous virtual environments**

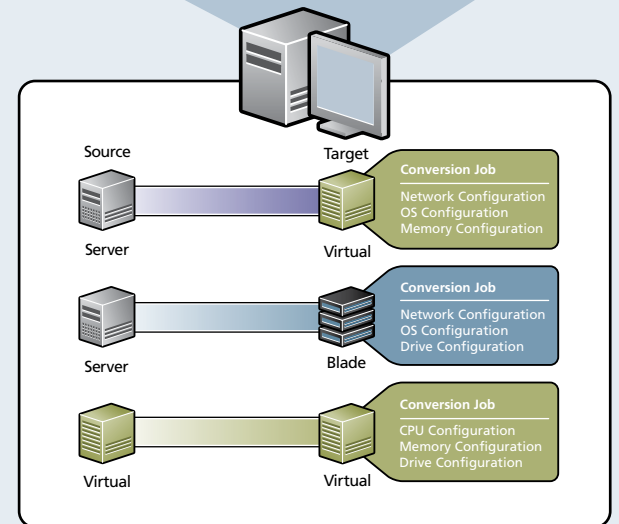
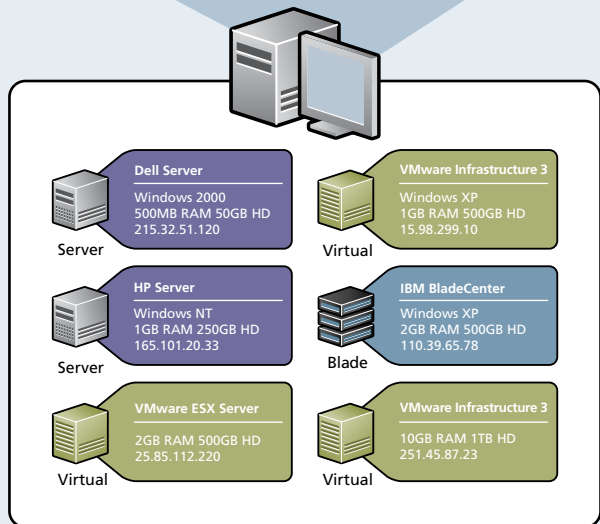
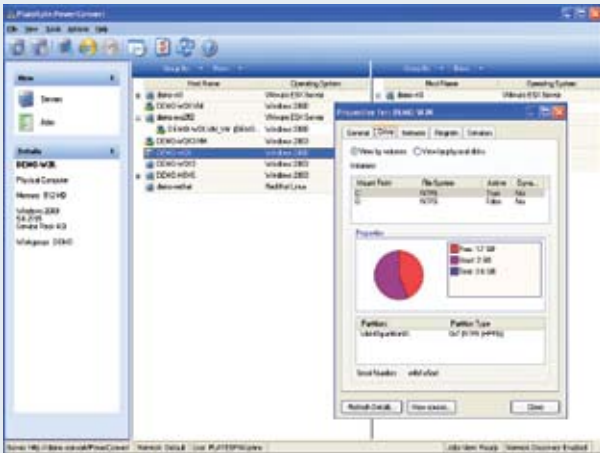
**Virtual test lab automation**

**Hardware lease migration**

**Hardware-independent archive and restore**

# PowerConvert

Anywhere-to-anywhere automated conversions between physical servers, virtual machines and image archives.



## Step 1: Discover

PlateSpin PowerConvert provides a single console to migrate server workloads and optimize data center infrastructures. Begin with the discovery and inventory of servers on the network using the hostname/IP and valid credentials. The discovered details are used to review the purpose or business application of each server and to plan the migration or establish the production to backup server relationship for disaster protection and recovery.

## Step 2: Configure

To initiate a server migration or backup, simply drag and drop workloads from the source to the target environment. PowerConvert migrates workloads between physical servers, blades, virtual machines and image archives. The system check utility will validate the conversion and automatically configure the job. Refine the job, virtual machine, network, drive, OS attributes and other options to optimize the target server as part of the conversion on-the-fly. Select the Live Transfer functionality to keep the source server online during the migration and to eliminate the need for a reboot.

## PlateSpin PowerSolutions

PowerConvert enables the following solutions.

### Server Consolidation

Anywhere-to-anywhere conversions between physical servers, virtual machines and image archives

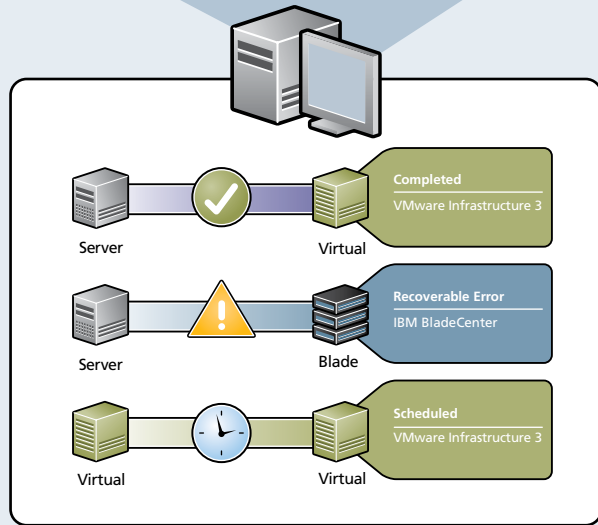
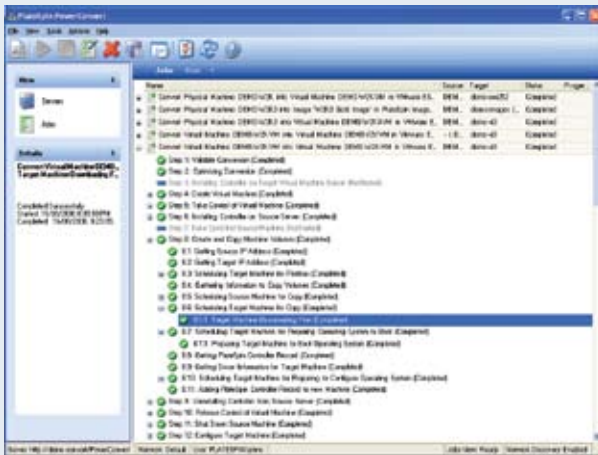
PlateSpin PowerConvert, combined with PowerRecon, allows organizations to perform complete end-to-end server consolidations faster and easier than ever before. PlateSpin accelerates the consolidation process by completely automating the capacity planning and migration phases of a consolidation project. PlateSpin's patent-pending OS Portability technology decouples data, applications and operating systems from the underlying hardware and automatically streams them to any physical or virtual platform. By allowing the migration of physical servers to virtual machines or blade servers with a simple drag and drop, PlateSpin helps organizations realize an up to 50 to 1 savings in time and effort for server consolidations.

### Physical-to-Virtual (P2V) Recovery

Optimize business continuity plans with flexible hardware-independent recovery.

PlateSpin revolutionizes business continuity by removing the requirement for expensive hardware and software redundancy to protect data center assets. PlateSpin's flexible restore capabilities enable organizations to meet their recovery time objectives (RTO) using virtualization. With PlateSpin's P2V Recovery solution, organizations can replicate a complete server image by streaming it over the network to a virtual standby machine. PlateSpin's Live Transfer functionality enables incremental synchronization at user-defined intervals to maintain currency between the production environment and the virtual standby system without taking source servers offline.

In the event of a primary server outage, the warm standby system can immediately take over the workload while the production server is restored. After recovery, the system can be rapidly moved back to a restored physical server or virtual machine to ensure minimal business disruption. Data centers can also leverage PlateSpin's rapid restore capabilities to run test failure scenarios which were previously too time consuming to perform for all but the most mission-critical server assets.



### Step 3: Convert

Start the conversion right away or schedule it to take place at a specific time. PowerConvert takes control of the source and target servers and seamlessly transfers workloads. View the progress of the migration in real-time using the Job View or configure email alerts to monitor job progress. PowerConvert automatically configures the server workload to operate on the target environment, making driver, kernel and other necessary changes.

## Platform Support

### Virtual Machines

- VMware® Infrastructure 3
- VMware® ESX Server 2.1 and higher
- VMware® Server
- Microsoft Virtual Server 2005 & 2005 R2

### Operating Systems

- Windows NT Server (SP4, SP6a)
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2003 Server
- Windows 2003 Server R2
- Windows XP Professional (SP2)
- Redhat Linux (7.3, 8.0)
- Redhat Enterprise Linux (AS, 3.0, ES 4.0)
- SUSE Linux Enterprise (9)

### Image Archives

- Acronis® True Image™
- Symantec® LiveState™
- PlateSpin Flexible Images
- Symantec® Ghost™

### Backup Solutions

- Raw Volume Data
- Veritas® Backup Exec™
- CA BrighStor ARCserv r11
- Double-Take® by Double-Take Software

### System Requirements

#### PowerConvert Server

- Windows 2000 Server (SP4)
- Windows 2000 Advanced Server (SP4)
- Windows 2003 Server

#### PowerConvert Client

- Windows 2000 Server (SP4)
- Windows 2000 Advanced Server (SP4)
- Windows XP
- Windows 2003 Server

IIS 5.0 and up and the .NET Framework 2.0 (including ASP.NET) must be installed prior to installing the PowerConvert Server and Client

#### Disk requirements

- 1.5 GB of free disk space

#### Memory requirements

- Minimum 512 MB of RAM, 1GB of RAM Recommended

## PowerConvert Features

### Anywhere-to-anywhere Conversions

Optimize the data center on demand  
Convert between any combination of source and target in any direction on demand – whether physical, virtual or image.

### Live Transfer

Reduce system downtime  
PowerConvert Live Transfer enables the migration or image capture of active Windows servers without taking the source servers offline or having to reboot. Reduce system downtime during migration or create regular backups of production systems.

### Consolidated Backup and Recovery

Cost-effective backup and recovery using virtualization  
Incremental synchronization can occur at user-defined intervals to maintain currency between production environments and virtual standby systems. Multiple hardware-independent virtual recovery environments can be hosted on a single platform to provide an affordable disaster recovery alternative for previously under-protected servers.

### Upgrade to the latest VMware Infrastructure 3 with Minimal Downtime

Automated, risk-free V2V upgrades to VMware Infrastructure 3  
Upgrade from VMware ESX Server 2 to VMware Infrastructure 3 with minimal downtime using PowerConvert's Live Transfer functionality. Full configuration control enables users to reconfigure virtual machines as needed during the conversion. The result is a fully updated native VMware Infrastructure 3 virtual machine.

### Secure Conversions

High security protocols protect data  
128-bit AES encryption and end-to-end SSL support provide state-of-the-art protection for high-security data center environments.

### Automatic Discovery

View the entire data center landscape  
Automatically discover existing physical or virtual machines throughout the network for complete hardware, OS, services and application inventory. Easily identify servers for consolidation, disaster recovery or test lab projects.

### Drag-and-drop Interface

Reduce learning curves and shorten the time to convert  
With PowerConvert, the conversion expertise is built in. Simply use the intuitive drag-and-drop interface to discover and convert.

### Source System Integrity

Minimize risk to production systems  
Source systems remain unchanged. After the conversion, the system optionally restarts the source machine for production-ready operations.

### PlateSpin Flexible Images

Save time and effort with flexible server images  
Capture server images remotely without the need to visit servers. Since no software or agents are installed on the imaged server, change request needs are minimized. Schedule image captures to keep image repositories updated for quick image deployment at any time.

### On-the-fly Configuration

Right-size target servers and adapt to changing workloads  
Reconfigure and right-size CPU, disk, memory and network resources on-the-fly to adjust to target machine resources. Change critical parameters on restore and right-size the target to match workload.

### Multiple Image Support

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

### Remote Control

Reduce overhead through a single conversion control point  
No agents, boot CDs or physical contact with source or target machines is required, saving time and costs related to having IT staff on site at remote locations.<sup>1</sup>

### PowerSDK

Develop applications that leverage PlateSpin's OS Portability  
Easily integrate PlateSpin's patent-pending OS Portability technology into applications through industry-standard protocols. The rich object-based .NET API provides an ideal integration point for in-house and commercial management systems.

© 2006 PlateSpin Ltd. All rights reserved. PlateSpin and the PlateSpin logo are registered trademarks of PlateSpin Ltd. PlateSpin OS Portability technology and related products are protected under patent pending. All other marks and names mentioned herein may be trademarks of their respective companies.

<sup>1</sup> For bare metal devices (servers without operating systems), a PlateSpin boot-CD may be required to take control of the server.

PowerConvert Version 6.0 – October 2006 – Doc 043

## PlateSpin Ltd.

144 Front Street West  
Suite 385  
Toronto, Ontario  
Canada M5J 2L7

Phone: 416 203 6565  
Fax: 416 593 5557  
Toll Free: 1 877 528 3774  
[www.platespin.com](http://www.platespin.com)

