



Veeam Backup & Replication **v5**

vPower: Virtualization-Powered Data Protection



“For many customers, virtualizing their critical business applications is the next step in the journey to 100% virtualization. The added functionality of Veeam Backup & Replication v5 provides our customers with improved recovery capabilities that will be important to virtualize key enterprise applications with VMware vSphere™.”

Parag Patel
Vice President of Alliances
VMware

“The ability to verify every backup automatically and restore individual application items have been among IT’s most serious backup concerns.”

Dave Russell
Research Vice President
Gartner

“Veeam is taking the paradigm of server virtualization and enabling organizations to do things in new ways that they never could have considered in the past.”

Lauren Whitehouse
Senior Analyst



Virtualization offers a unique value proposition, with the opportunity to reduce costs while also increasing service levels. Nowhere is this value proposition more apparent than with data protection. Of course, you need the right tools to turn the opportunity into reality.

Already, Veeam Software has made enhanced data protection and disaster recovery a reality for more than 15,000 customers. And with Veeam vPower™, Veeam is taking backup to a whole new level and using virtualization to do things never before possible.

vPower, the breakthrough technology in Veeam Backup & Replication™ v5, lets you run a virtual machine (VM) directly from a backup file. This has fundamental, far-reaching benefits. With 5 patents pending, v5 with vPower offers these industry firsts:

- **Instant VM Recovery**—restore an entire machine from backup in a matter of minutes.
- **U-AIR™ (Universal Application-Item Recovery)**—recover individual objects from ANY virtualized application.
- **SureBackup™ Recovery Verification**—automatically verify the recoverability of every backup.

100% Reliability



Best RTOs



Best RPOs



SureBackup: 100% Reliability Patent-Pending

Backups are worthless if you cannot recover from them. vPower enables you to verify the recoverability of your backups—not just a few selected backups, but EVERY backup, of EVERY virtual machine, EVERY time.

vPower automates the recovery verification process, using available resources in your existing production or test environment. During recovery verification, it creates a VM in an isolated environment and runs it directly from the backup file. It starts the VM, boots the OS and confirms that everything is running normally.

You no longer have to settle for backups that “might work” or “should work”—instead, you can rest easy knowing that your backups actually do work.

To learn more, visit: www.veeam.com

About vPower

vPower is Veeam's vision for data protection in the virtual world and the Veeam technology that makes that vision a reality. vPower leverages the virtual environment and Veeam innovation to take data protection to the next level and make disaster recovery affordable. vPower eliminates the fundamental shortcomings of traditional approaches to reduce the cost, ensure the reliability and increase the value of data protection and disaster recovery.

Here's how vPower works:

- Publishes the compressed and deduplicated backup as a regular VMDK file
- Runs the VM directly from the backup—but without modifying the backup in any way
- Creates an isolated environment for application-item recovery, recovery verification and testing/troubleshooting

Supported Environments

VMware Infrastructure

Platforms:

- vSphere 4.x
- VMware Infrastructure 3.x (VI3)

Hosts:

- ESX 4.x and 3.x
- ESXi 4.x and 3.x (including replication to ESXi)

Software:

- vCenter Server 4.x (optional)
- Virtual Center 2.x (optional)

Virtual Machines:

- All operating systems supported by VMware
- Any application
- Any file system

InstantRestore™: Fastest Recovery Time

With vPower, you can quickly restore exactly what you need... whether that's the entire VM, a particular VMDK file, or specific application or user data.

Instant VM Recovery Patent-pending. With vPower, you can run a VM directly from a compressed and deduplicated backup file on regular backup storage. This ground-breaking technology eliminates the need to extract the backup and copy it to production storage—you simply start the VM from the backup. So if a VM goes down, you can restart it on any host in a matter of minutes.

It's like having a "temporary spare" for your VMs. To complete the recovery, use Storage vMotion to migrate the VM to production storage with no interruption in service or impact on users. Or, if you don't have Storage vMotion, simply replicate or hot copy the VM with these built-in capabilities in Veeam Backup & Replication.

U-AIR (Universal Application-Item Recovery) Patent-pending. vPower also enables quick recovery of individual objects from any virtualized application, on any OS. It's a brand-new solution to the age-old problem of what to do when users accidentally delete important emails or scripts incorrectly update records.

U-AIR addresses the limitations of existing object-level recovery methods. U-AIR is:

- **Inexpensive:** doesn't require additional agents, backups or software tools
- **Universal:** works with any virtualized application and the application's native utilities and permissions
- **Durable:** not tied to application internals so is easy to maintain and works seamlessly with new application patches and releases

Instant File-Level Recovery Patent-pending. With vPower, you can quickly recover an entire VM or an individual file from the same image-level backup. Veeam instant file-level recovery enables you to restore individual files from your backups and replicas in seconds to the latest state or any point in time, and is supported on any OS or file system.

SmartCDP™: Near-Continuous Data Protection

vPower leverages the latest technological advancements in VMware vSphere 4 and vStorage—including Changed Block Tracking and thin-provisioned disks—to deliver unprecedented replication speed. You can capture changes and update VM images as often as every few minutes. If a VM goes down, you can immediately fail over to a ready-to-start replica. This eliminates the need for an expensive specialized product and provides an affordable alternative to traditional CDP. So even if you can't afford expensive real-time replication or hardware-based snapshots, you can still maintain high availability and deliver near-continuous data protection.

2-in-1: Backup & Replication

Veeam provides the most comprehensive protection for your virtual environment, offering backup and replication through one solution, at one price. This gives you flexibility to meet different recovery objectives (RTOs and RPOs) for different VMs. You can replicate a VM on-site for high availability, off-site for disaster recovery, or back up using less expensive hardware and techniques. You save on software licenses—and realize additional benefits from virtualization. To ease data transfer to and from off-site locations, Veeam uses WAN bandwidth efficiently and lets you replicate over slow WAN links.



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