veeam

| Protect | Document | Monitor | Optimize |

Veeam Backup & Replication v5
vPower: Virtualization-Powered Data Protection™

The industry analysts agree:

The new capabilities being developed for Veeam Backup & Replication are innovative, powerful, and relevant.

"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. This is powerful—without verification, organizations are exposed, especially with image-level backups."

Lauren Whitehouse
Senior Analyst
Enterprise Strategy Group

"Virtualization provides a gateway for innovative solutions to include validation of entire application stacks as part of the backup process. IT professionals no longer have to lose sleep wondering if critical data can be recovered, when they can leverage innovative solutions that validate the application integrity of each backup job."

Chris Wolf
Senior Analyst
Gartner Group

"Veeam shows innovation in the area of virtualization and data protection and recovery."
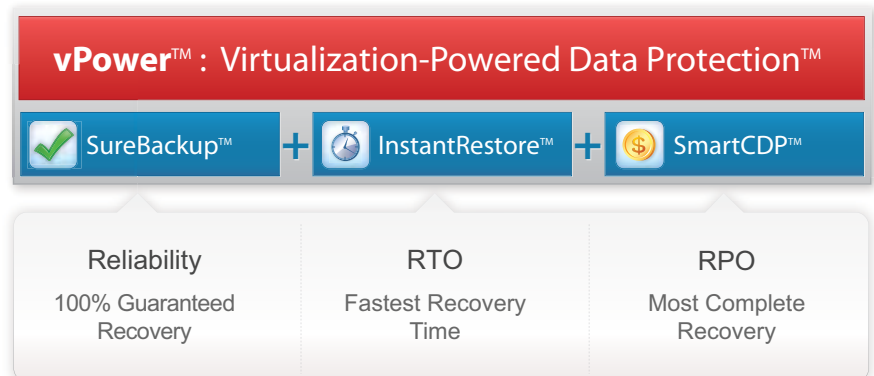
Laura DuBois
Program Director
IDC

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 12,000 customers. And with Veeam vPower™, Veeam is taking backup to a whole new level and using virtualization to do things never before possible.

Veeam has developed breakthrough technology in Veeam Backup & Replication™ v5 that lets you run a virtual machine (VM) directly from a backup file. We call it vPower, and it 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 items from ANY virtualized application.

- **SureBackup™ Recovery Verification**—automatically verify the recoverability of every backup.

vPower™ : Virtualization-Powered Data Protection™

| ✔ SureBackup™ | + | ⏱ InstantRestore™ | + | 💲 SmartCDP™ |

Reliability	RTO	RPO
100% Guaranteed Recovery	Fastest Recovery Time	Most Complete Recovery

SureBackup: 100% Guaranteed Recovery 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.

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.

vPower is enabled by 5 patent-pending technologies, including:

- **Instant VM Recovery**—restore an entire VM IN MINUTES by running it directly from backup.
- **U-AIR™ (Universal Application-Item Recovery)**—recover individual application items from ANY application and ANY OS.
- **SureBackup™—100% Guaranteed Recovery**—automatically verify the recoverability of EVERY backup, EVERY VM, EVERY time.

Other enhancements in v5

in addition to Instant VM Recovery, U-AIR and SureBackup Recovery Verification, Veeam Backup & Replication v5 includes other new features and enhancements to provide highest levels of automation, flexibility and assurance.

- **Instant indexing for Windows.** Automatically create a catalog of all guest files in Windows VM image-based backups, allowing you to quickly browse or search for guest files in both current and archived backups.
- **On-demand sandbox.** Quickly start one or more VMs in an isolated environment to test software and patches, troubleshoot problems, etc.
- **Enhanced deduplication and faster off-site replication.** Reduce disk storage requirements and optimize WAN performance with additional engine improvements and optimizations in v5.

InstantRestore™: Fastest Recovery Time

With vPower, you can run a VM directly from a compressed and deduplicated back-up file. 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.

Instant VM Recovery Patent-pending. How many times have you wasted precious time trying to troubleshoot an issue while users twiddled their thumbs and went out for coffee… and management grew increasingly impatient? With vPower, users no longer have to wait while you troubleshoot the issue or extract the backup. Instead, you can recover an entire VM in just a few minutes.

It's like having a "temporary spare" for your VMs. To restore full service, use Storage vMotion to migrate the VM to production storage and thus provide full recovery with zero downtime. Or, if you don't have Storage vMotion, simply replicate the VM with 2-in-1 backup and replication from Veeam.

U-AIR (universal application-item recovery) Patent-pending. vPower also enables quick recovery of individual objects from any virtualized application. 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 for Windows and Linux. 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, and is supported both for Windows and Linux file systems, and 15 other files-systems.

SmartCDP™: Most Complete Recovery

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 data 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.

To learn more, visit: www.veeam.com

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