



## Enterprise Data Protection for VMware Environments

For organizations that want to quickly upgrade their IT infrastructure to control costs while increasing IT services delivery, virtual environments are a must have. Virtual environments enable IT to reduce costs by consolidating hardware and increasing server utilization, but without adequate data protection, the reduction in capital expenses can be easily offset by an increase in operating expenses. A robust backup solution to protect this new infrastructure should be deployed in parallel. Organizations implementing VMware for their virtual environment have chosen the market leader, so it's no surprise they would have high expectations for their data protection solution too. The right choice: reliable, scalable and flexible backup and disaster recovery for the complete virtual infrastructure, integrated with data protection for the rest of the enterprise.

### Granular Recovery for VMware vSphere and VMware ESX

Atempo Time Navigator for VMware is a flexible solution designed to meet a variety of enterprise data protection requirements. It can easily fit in a wide array of virtual infrastructure configurations. Hot backup of entire virtual machines (VM) can be performed simply without interrupting the work of these virtual machines. Once the VM has been backed up, depending on the backup administrator's need, a restore of this complete VM, or the restore of a single disk of this VM, is possible.

In order to benefit from the full capabilities and feature set of Atempo Time Navigator, the VMware module should be used as a complement to the regular Atempo Time Navigator agent. Using the Atempo agent in parallel of the VMware module will bring increased restore granularity. When the agent is installed on each virtual machine the users will be able to make file level restores within the VM as well as full disaster recovery of this VM.

### Integrated with VMware VCB through vStorage API

Before you implement a data protection solution for your virtual infrastructure, it's important to consider the impact on resource utilization and network bandwidth. Atempo Time Navigator for VMware with vStorage API takes full advantage of the VMware Consolidated Backup capabilities so that backups have minimal effect on users.

Designed for deployment in a SAN environment, Atempo Time Navigator VMware module for vStorage enables the Atempo Time Navigator server or storage node to run on a proxy machine and to use VMware snapshots to backup the virtual machines on the ESX server. This implementation enables the backup of the snapshots directly from the SAN, freeing up valuable resources and network bandwidth. Neither the local network nor the ESX server are impacted by the backup activity.



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## Key Features and Benefits

Atempo Time Navigator for VMware addresses the unique data protection requirements of VMware environments, offering complete protection of the virtual environment with restore granularity from the full ESX server down to the file level within a virtual machine.

### Protects the Full Virtual Environment

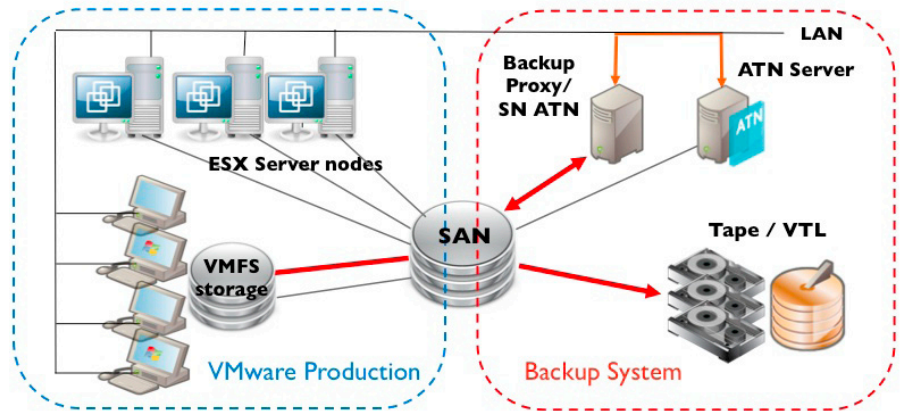
Atempo Time Navigator for VMware backs up all VMware components, from the full vSphere or ESX server, down to the virtual machine, the virtual machine disk or even a single file within the VM. To back up virtual machines, administrators use the Atempo Time Navigator GUI to view and control all the virtual machine images of an ESX server, or group of servers.

### Administration Extended for VMware

Atempo Time Navigator provides a single, central administration interface for the backup and recovery of files, disks and virtual machines. Its tree structure enables the administrator to navigate through to specific virtual machines within the ESX server, and down into the folder and files hierarchy within individual virtual machines and drives.

### Intuitive Restore by Time Navigation

Using Atempo Time Navigator's unique Time Navigation capability, administrators can return to any point in time to restore files, virtual machine disks or entire virtual machines. The administrator simply navigates to the specific virtual machine within the ESX server to recover any instance, at any point in time. For more granular recovery, administrators can view individual disks of the virtual machines, and navigate to folders and files just as they would on a non-virtual machine.



Backup of VM's via vStorage (VMDK)

### Hot backup of the virtual machines

Snapshot-based backup of the virtual machine images, the configuration files and the virtual machine disk files (vmdk) means you don't have to shut down virtual machines before backing them up. So there's no impact on user productivity.

### Proxy for VMware Consolidated Backup

Atempo Time Navigator for VMware leverages VMware's VCB technology to transfer the backup workload to a proxy server, so there's minimal impact on CPU and network resources.

### Restores VMs to a Different ESX Server

With Atempo Time Navigator for VMware, administrators have the flexibility to restore a virtual machine to a different ESX server if necessary.

### Supports VMotion

Atempo Time Navigator for VMware keeps the VMs fully protected, even as they're moved across servers with Motion. Real-time backup means that virtual machines are always backed up, wherever they are located.

### Supported Versions

#### VMware Datacenter Virtualization Products

- ◉ vSphere 4.1, 4.0
- ◉ ESX 3.5, 3.0, 2.5
- ◉ ESXi 4.0, 3.5

#### VMware Backup Solutions

- ◉ vStorage API
- ◉ VMware VCB 1.5, 1.1, 1.0

Refer to the Atempo Compatibility Guide for the current list of supported systems.

**Atempo** 

### About Atempo

Atempo enables organizations to protect, manage, archive, and recover digital information simply and effectively, across any infrastructure, on any platform, over any period of time. Atempo's portfolio of integrated software solutions simplifies the management of data throughout its entire lifecycle. Atempo serves thousands of customers around the world through a sales and support network of over 200 resellers and partners.

Learn more at [www.atempo.com](http://www.atempo.com)