



DATA PROTECTION

ATEMPO TINA PROTECTS YOUR VIRTUAL ENVIRONMENTS



**Time Navigator
for your Virtual Machines**



**Centralized backups and
storage destination choice**



**Total Protection :
VMware | Hyperv-V | OpenStack**

LOCATE, RESTORE, RESTART...

Tina, with its all-new interfaces, maintains its considerable power:

Thanks to Tina, select a precise moment in the past and:

- Locate the VMs to restore.
- Restore them to the same place on the same or a different platform.
- Your business restarts

CHOICE AND FREEDOM

Storage savings and high performances!

- Tina deduplicates all backed-up data at source. Economize up to 90% in storage costs.
- Tina offers a wide choice of storages: disk, tape, and cloud... Control costs and manage your backup policies.

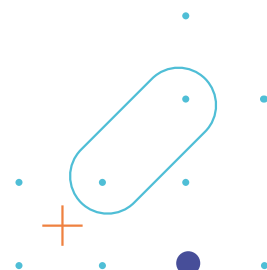
AGENTLESS PROTECTION

Whatever the choice of virtualization platform!

- Tina integrates newly - created VMs automatically into your backup and retention policies.
- Hot backups and crossplatform recovery with filelevel.

Server virtualization brings many benefits: **storage space saving, resource economy, budgetary savings** and **simplicity**. Yet it is important not to integrate native technology to back up virtual machines. Atempo's Tina solution has dedicated virtualization agents to manage VM backups alongside regular backups. Tina **backs up to tape, to disk and to cloud**.

Virtualization sprawl is another admin headache. VMs get created all the time and **Tina automatically adds these VMs to the backup selection**. Even if the virtualization administrator knows nothing about backup schedules, Tina Restore interfaces let you select the VM or the file to restore. Select the date and time and navigate to the objects. Nothing could be simpler!



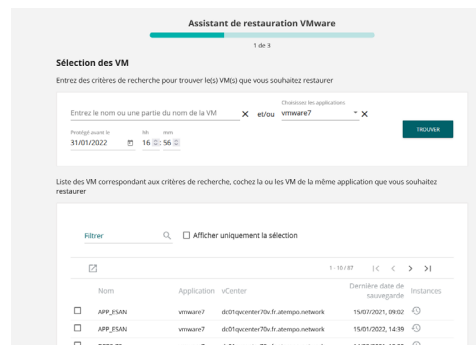


FEATURES	BENEFITS	VMWARE	MS HYPER-V	OPEN STACK	NUTANIX
All tasks managed with Tina's the intuitive GUI with Time Navigation capability	<p>Provides a simple and intuitive process for backup and recovery of files, disks and VMs.</p> <ul style="list-style-type: none"> • Enables folder and file hierarchy display for individual virtual machines and drives. • Enables administrators to navigate tree control to specific virtual machines on an ESX server. • Quick, streamlined recovery process of any instance from any point in time. • No scripts are necessary 	✓	✓	✓	✓
Backup & restore of one or more virtual machine disks or VMs	Compatible with a wide variety of environments, enabling end-to-end backup and disaster recovery	✓	✓	✓	✓
Hot backups of virtual machines	<p>Snapshot-based backups of VM images, including configuration files, nvram, and virtual machine disk files.</p> <p>Backup operations do not need to shutdown virtual machines. Zero impact on productivity.</p>	✓	✓	✓	✓
Backup proxies	Backup workloads are transferred to the proxy server, saving CPU resources and LAN bandwidth. Backup always has minimal impact on user activity and production.	✓	N/A	N/A	N/A
Full support for virtualization	Provides data protection solutions for SAN and non-SAN virtual infrastructures.	✓	✓	✓	✓
File-level restores for virtual machines	Provides granularity for point in time restores to the file level in case of file deletion or corruption.	✓	✓	✓	✓
Cross restoration of VM to another hypervisor	Restore one or more VMs to an alternative destination.	✓	✓	✓	✓
Backup storage flexibility	<p>Multiple storage destinations</p> <ul style="list-style-type: none"> • Disk, Cloud (S3) VTL, deduplication storage including cloud and tape targets • Automatic D2D2T for extra data security 	✓	✓	✓	✓

ATEMPO TINA AGENTS FOR VMWARE, HYPER-V, OPENSTACK AND NUTANIX

Tina's unique "Time Navigation" capability provides an intuitive UI to manage virtual environment backups. Administrators can simply view the tree structure and manage all virtual machine images directly in Tina's interfaces. Additional granularity enables administrators to view individual VM disks and navigation to individual directories and files. Tina's Time Navigation feature allows for point in time restore without scripting for VMs, VM disks and files data.

Backup is only half of the data protection story. When it comes to restoring precious data, you can rely on Tina with the simple restore interface to focus on your infrastructure and take the stress out of recovery. Search for data using wildcards, show modified files; you can even see files that have been deleted!



Supported versions:
Microsoft Hyper-V 2016, 2019

Tina Agent for Hyper-V seamlessly integrates virtualization backup alongside regular data backups. Restore either the full VM or just an individual file. Restore couldn't be simpler, just select the date and restore

Tina Agent for Hyper-V

- Uses VSS technology to take a snapshot of the VM. This ensures no downtime to production and users continue with their work.
- Can cross restore on VM to another machine for cloning purposes.
- Restore either the full VM or individual files.
- Fully integrated with Tina using the same simple concepts.
- Can write to deduplicated storage, disk, tape and Cloud to ensure disaster recovery procedures are covered.



Supported Versions:
vSphere 7.0, 6.7, 6.x
Platforms: ESXi 7.0, 6.x

Tina Agent for VMware adapts to all company data protection requirements and fits a wide array of virtual infrastructure configurations. It provides a simple, easy-to-use Disaster Recovery procedure for VMware virtual machines.

The agent performs hot backups of entire VMs - without interrupting the work on these machines. Once the VM is backed up, we can restore a complete virtual machine, or just one disk of the virtual machine or a file or folder as and when required.

In addition to leveraging VMware CBT (change block tracking) for fast backups our **HyperVision Agent for VMware** presents a global view of the data center. It parallelizes VM backups to ensure the backup window is met and optimizes restorations by offering file level restore from a full VM backup.

Tina for VMware leverages VMware's advanced capabilities for consolidated backups. VMware backups can use a lot of resources. They are potentially I/O and bandwidth intensive. Because Tina backs up snapshots directly from the SAN, valuable resources and bandwidth are saved, freeing up resources on the LAN and the ESX server environment

- **Single** pass backup for full VM's & file level restore
- Restore any version from any time
- Supports **multiple** backup destinations: deduplicated storage, disk, Cloud and tape
- **Global** block-level deduplication
- Replication for additional security
- Cross restore of VM or file to alternative locations
- **Filter** using tags
- **Express Restart** VMs in minutes.





Tina Agent for OpenStack protects all powered on/off images

Tina Agent for Openstack:

- Agentless full backup to protect the entire instance or image using OpenStack APIs.
- VMs that have disappeared are easily identified by Tina's deleted files mechanism.
- New VMs are automatically populated in the backup selection.
- Fully integrated into Tina's Admin interface for simple backup management



Tina introduces support for the Nutanix AHV agent.

You can now backup and restore virtual machines (VM) from a Nutanix AHV infrastructure. The Nutanix AHV agent is an application that runs on a host configured as a Tina agent or server.

