



Tintri VMstore™ T600 Series

Smart storage that Sees, Learns and Adapts

Tintri VMstore™ smart storage is designed to address the needs of virtualization and cloud environments. Traditional storage is a mismatch for the specialized demands of virtualization, requiring complex configuration, significant over-provisioning and ongoing optimization and management. VMstore addresses the challenges traditional storage platforms pose when virtualizing critical server workloads such as Microsoft® Exchange®, Microsoft® SQL Server®, Microsoft® SharePoint®, Oracle® and SAP® databases as well as end-user desktops.

Built using the industry's first and leading application-aware storage architecture, the Tintri VMstore T600 series sees storage at the VM and vDisk level—learning and adapting to rapidly-changing workloads, eliminating mundane storage management tasks and delivering substantial improvements in performance and density over legacy storage. Tintri VMstore T600 series is ideal for midsize and large enterprise virtual environments with a variety of workloads such as VDI deployments with mixed end-users, business-critical applications and development and test environments.

Whether you are an IT architect, administrator or manager, Tintri VMstore can help you:

Realize the full potential of virtualization with intelligent storage.

- Set-up in minutes with support for multiple VMware vSphere, Microsoft Hyper-V or Red Hat Enterprise Virtualization datacenters. Only deal with auto aligned VMs and vDisks, not LUNs and volumes—eliminate any complex configuration or ongoing tuning.
- Get 99 percent of IO from flash, for all-flash performance without the all-flash price.
- Serve hundreds of different types of VM workloads from a single VMstore with dedicated IO lanes per vDisk and performance allocation—eradicating the impact from noisy neighbors on other virtual workloads.

Eliminate bottlenecks and troubleshooting overhead with infrastructure insight.

- Get a single view of all VMs stored and identify performance and capacity trends without the complexity associated with low-level storage constructs.
- Instantly identify performance hot spots at the hypervisor, network and storage levels with comprehensive performance visualization.
- Leverage optional Tintri Global Center™ software to monitor and administer multiple VMstore systems and resident VMs from a single control pane.

Stay in control of virtualization environment while VMstore eliminates mundane storage management tasks.

- Protect individual VMs with customizable policies for VM-level instant space-efficient snapshots—eliminating the complexity of LUNs and volumes mapping.
- Deploy affordable WAN-efficient replication at the VM-level using as much as 95 percent less bandwidth with block-level global deduplication and compression over the wire with optional ReplicateVM™ software
- Create hundreds of high performance zero-space VM clones locally or remotely. Ideal for speeding up VDI deployments and for development/test workloads.
- Protect data with optional SecureVM™ software to encrypt data inline using 256-bit AES algorithms and without impacting performance, with in-built key rotation.

Highlights

Storage that Sees:

- Designed specifically for virtualized applications, VMstore automatically configures itself based on your environment and provides a complete end-to-end view of all virtual workloads.

Storage that Learns:

- VMstore maintains constant communication with your entire virtualized environment. Actively changing VMs are tracked and highlighted so you have status on a moment-by-moment basis.

Storage that Adapts:

- Because of unique per-VM data management and operations, VMstore can make adjustments including a dedicated IO “lane” per VM to maintain the best service for all virtualized applications.

“Compared to our previous storage, Tintri VMstore can run ten times the VMs in less than a tenth of the data center footprint, and reduce latency by 98 percent at the same time. They helped us realize a fundamental goal of virtualization: consolidating workloads and increasing resource utilization, both on hosts and on storage.”

—Mike Torgersen,
vice president of IT at ParAccel

Tintri VMstore™ T600 Series

VMstore T650

Ideal for highly virtualized enterprise environments requiring performance and scalability for thousands of VMs

VMstore T620

Ideal for midsized environments requiring efficiency to handle hundreds of VMs

Controller	Type	Dual Controller (active-standby) supporting Tintri OS 2.1 and up	
Capacity	Raw ^a	49.32 TB (9x 480 GB SSD + 15x 3 TB HDD)	19.44 TB (6x 240 GB SSD + 18x 1 TB HDD)
	Usable ^b	33.5 TB	13.5 TB
Networking	Management	Included: 2x 1GbE (RJ-45)	Included: 2x 1GbE (RJ-45)
	Data	Included: 2x 10GbE (SFP+ or 10GBASE-T)	Included: 2x 1GbE (RJ-45) Optional: 2x 10GbE (SFP+ or 10GBASE-T)
	Replication	Included: 2x 1GbE (RJ-45) Optional: 2x 1GbE (SFP)	Optional: 2x 1GbE (RJ-45) Optional: 2x 1GbE (SFP)
	Software functionality	Ethernet failover link aggregation, VLAN tagging, IP aliasing, LACP	
Physical specifications	Dimensions (HxWxD)	4RU, 7" (178 mm) x 19" (483 mm) x 28.5" (724 mm)	
	Weight	108 lbs (49.1 kg)	106 lbs (48.2 kg)
Power & environmental	Power	100-140 VAC, 7 A (nom) / 8.5 A (max) @ 50-60 Hz	100-140 VAC, 6 A (nom) / 7.5 A (max) @ 50-60 Hz
		180-240 VAC, 4 A (nom) / 4.8 A (max) @ 50-60 Hz	180-240 VAC, 3.5 A (nom) / 4.2 A (max) @ 50-60 Hz
		700 W (nom) / 1,000 W (max)	600 W (nom) / 800 W (max)
		Dual redundant hot swappable power supplies with a choice of NEMA or IEC plug types	
	Thermal	2,400 BTU (nom) / 3,415 BTU (max)	2,050 BTU (nom) / 2,730 BTU (max)
	Operating temperature	5° C to 40° C (41° F to 104° F)	
	Non-operating temperature	-40° C to 70° C (-40° F to 158° F)	
	Operating humidity	8% to 90% (non-condensing)	
Non-operating humidity	5% to 95% (non-condensing)		
Regulatory	Compliance	RoHS	
	Safety	CSA/EN/IEC 60950-1, GOST	
	Emissions	FCC Class A, ICES-003 Class A, VCCI Class A	
	Agency	CE, CSA, VCCI, CCC	
Product support	Administration	Tintri Global Center, web interface (https), KVM (console), SMTP and SNMP for alerts	
	Support	Proactive support with automated phone home and case creation	
Virtualization SW support	Hypervisor	VMware vSphere 4.x and 5.x (NFS) Red Hat Enterprise Virtualization 3.3+ (NFS) Microsoft Hyper-V 2012 (SMB3)	
	Desktop virtualization	VMware Horizon View and Citrix XenDesktop	
Additional Software	Multi VMstore management	Tintri Global Center™	
	Replication	Tintri ReplicateVM™	
	Encryption	Tintri SecureVM™	

a. All capacity values are based on Base 10 (i.e., 1 TB = 1,000,000,000,000 bytes)

b. After double parity RAID-6, spare, and system overhead



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