

Tintri VMstore T5000 All-Flash Series

All-Flash VM-aware storage building block for scale-out

The Tintri VMstore T5000 All-Flash series is the first all-flash VM-aware storage (VAS) to offer up to 308TB for 5,000 virtual machines (VM) in two rack units. High density 3D NAND drives and multiple capacities with expansion options gives you the ultimate flexibility in performance, capacity and price. Enabled by the Tintri scale-out platform, you can grow from a single two rack unit 17 TB all-flash system to 10 PB of all-flash in 1.5 racks, supporting up to 160,000 VMs. Tintri's VM-aware storage delivers performance isolation and per-VM quality of service while guaranteeing high performance and low latency across the entire flash capacity. The T5000 series enables all storage action at the VM-level—manage, replicate, automate and analyze any (or every) VM to keep storage simple.



PERFORMANCE

- **Performance isolation.** Eliminate noisy neighbor and I/O blender effects with per-VM performance lanes
- **Per VM QoS.** Guarantee performance at the VM-level through quality of service (QoS) policies
- **Data reduction.** Inline deduplication, compression and zero block optimization



MANAGEABILITY

- **Real-time actionable analytics.** See across storage, network and host on a per-VM basis
- **Predictive analytics.** Profile application types, then model and forecast capacity and performance needs over the next 6 months
- **Concurrent multi-hypervisor support.** Operate vSphere, Hyper-V, RHEV, XenServer and OpenStack on a single array
- **Per-VM data management.** Manage snapshots, clones, replication and QoS policies on a per-VM level



SCALE

- **VM Scale-out.** Optimize the distribution of VMs across pools of VMstores with Tintri Global Center Advanced
- **Choice.** Choose from three different controller models each with three capacity points to balance capacity and performance needs on a single array. Start as small as 17 TB and scale to 10 PB or more
- **Expandability.** Scale capacity with expansion options on select VMstore models

Tintri VMstore™ T5000 All-Flash Series

	VMstore T5040	VMstore T5060	VMstore T5080	Foundation Cloud
SYSTEM				
Number of nodes	1	1	1	4
Type	All-Flash dual controller (active-standby)			
SOFTWARE				
Tintri Operating System	Requires Tintri OS 4.2 or higher			
CAPACITY OPTIONS				
Effective (TB) up to*	17 / 35 / 77	35 / 69 / 154	69 / 139 / 308	1.2 PB
Raw (TB)	6** / 12** / 23	12** / 25** / 46	25** / 50** / 92	368
VM DENSITY				
VMs (max)	1,500	2,500	5,000	20,000
vDisks (max)	4,500	7,500	15,000	60,000
CONNECTIVITY PER CONTROLLER				
10 GbE network	4	4	4 or 6	16 or 24
Software functionality	Ethernet failover link aggregation, VLAN tagging, IP aliasing, LACP			
PHYSICAL SPECIFICATIONS				
Dimensions (RU)	2RU			8RU
Dimensions (HxWxD)	2 RU, 3.5" x 19" x 31.38" w/o bezel (89 mm x 483 mm x 800 mm)			
Weight	79.3 lbs (36.0 kg)			320 lbs (144kg)
POWER & ENVIRONMENTAL				
Watts (nom)	455	475	495	1980
BTU (nom)	1550	1620	1690	6760
Power supplies	Dual redundant hot swappable with a choice of NEMA or IEC plug types			
Operating temperature	10 °C to 35 °C (50 °F to 95 °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)			
VIRTUALIZATION SW SUPPORT				
Protocol support	NFS and SMB3			
Hypervisor	VMware vSphere 5.1, 5.5 and 6.x (NFS), Red Hat Enterprise Virtualization 3.4 (NFS), Microsoft Hyper-V 2012 (SMB3), XenServer 6.5 (NFS), OpenStack 2014.2.x (Juno) or above			
Desktop virtualization	VMware Horizon (with View) and Citrix XenDesktop (with vSphere, XenServer or Hyper-V)			
ADDITIONAL SOFTWARE***				
Multi VMstore management	Tintri Global Center™ Standard (included)			Included
	Tintri Global Center™ Advanced (includes VM Scale-out)			Included
Replication	Tintri ReplicateVM™			Included
Encryption	Tintri SecureVM™			Included
Synchronization	Tintri SyncVM™			Included
Analytics	Tintri Analytics (Included in active Tintri maintenance contract)			Included
PRODUCT SUPPORT				
Administration	Web interface (https), KVM (console), SMTP and SNMP for alerts			
Support	Proactive support with automated phone home and case creation			
REGULATORY				
Compliance	RoHS, REACH			
Safety	CSA/EN/IEC 60950-1, GOST			
Emissions	FCC Class A, ICES-003 Class A, VCCI Class A			
Agency	CE, CSA, VCCI, CCC			

* All capacity values are based on Base 10 (i.e., 1 TB = 1,000,000,000,000 bytes) after double parity RAID-6, spare, and metadata overhead. Effective capacity is calculated after data reduction (assumes 5:1) using inline deduplication and compression but does not include thin provisioning. Data reduction rates will vary with workloads.

** Scale capacity using expansion option

*** Requires additional license unless otherwise noted

