





# VTrak D5000 Series

**Unified Storage System** 

# **Key Highlights**

## **Simplify Your Storage Environment**

- Consolidate SAN and/or NAS workload on the same storage solution
- Hybrid interfaces allow Concurrent FC & ISCSI connections for SAN as well as NAS protocols

### **Realize Superior Value**

- · Accelerate enterprise applications
- Reduce latency and speed operations with up to 50% higher performance
- As low as \$60 per terabyte

#### **Consolidate Infrastructure**

- Massively scale up to 512 drives
- Flexible 10GbE and optional 8/16G FC, with 6G SAS/SATA¹ and 12G SAS interfaces
- Integrate into existing Open Directory and Active Directory environments

#### **Eliminate Downtime**

- Fully redundant design for enterprise
- Active-Active Dual Controller with ALUA support for access flexibility
- Upgrade & expand without downtime

### **Proactive & Predictive Analytics**

- Background data integrity scrub with parity
- Predictive Data Migration (PDM) to minimize maintenance

#### **Applications**

- Video Compressed Workflow
- · General IT Infrastructure
- Virtualized Applications
- High Bandwidth Applications
- Backup and DR target

## **VTrak D5000 Unified Storage System**

VTrak D5000 series unified storage systems deliver uncompromising scalability, flexibility, and affordability for the mid-tier while providing simplicity and efficiency for minimizing total cost of ownership. Customers can respond more quickly to changing storage capacity and performance requirement needs.

#### **Accelerate Business with VTrak D5000**

VTrak D5000 enables data driven business with an integrated combination of high-performance hardware, adaptive storage software, flexible protocols and application dependent front and backend connectivity at an affordable price.

#### **Unlock Power of Flash Cache at Affordable Price**

Flash Cache accelerated VTrak D5000 storage systems deliver impressive performance, boosting throughput and lowering latency. User has option to add Flash Cache for read and write acceleration. PROMISE intelligent data caching automatically promotes hot data to cache in real time, so you get the full benefit of flash performance.

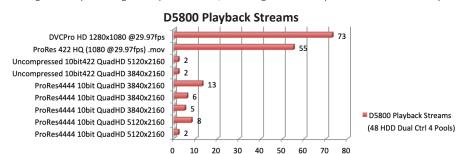
## Not just for IT, Optimized for video application environments

The Promise VTrak D5000 is optimized for 10Gb Ethernet via SMB/NFS protocols for large file data ingesting, streaming, or processing between the VTrak D5000 NAS storage appliance and its clients. Data can also be directly transferred between the VTrak D5000 appliance and clients over the SAN via iSCSI/Fibre Channel network. This means higher bandwidth performance and lower latency data transfers, perfect for Media & Entertainment, HPC applications, and other video-centric environments. In addition the VTrak D5000 supports Open Directory and Active Directory making it fully integrateable into your existing networking environment.

## Edit & play back compressed video faster

A faster processor, 10Gb Ethernet ports, and more memory is just the beginning. Enhanced cached mirroring design, auto-regeneration of data to mitigate frame drops and optimized disk access all add up to blazing performance for broadcast and editing environments.

The VTrak D5000 Series optimizes performance to enable media professionals to increase productivity by allowing efficient processing of compressed video, delivering best-in-class performance and reliability.



#### Scalable, reliable and cost-efficient

With VTrak D5000 you can "pay as you grow" from 64 Tera Bytes to Peta Bytes for long-term storage investment protection. Perfect not only for compressed video workflow environments but ideal for low cost backup/archive applications. Additionally, VTrak D5000 series comes with high-availability dual controllers, hot-swappable modular disk array, and a 3 year 24x7 technical support, with next business day on-site parts replacement warranty. Expansion units can start from 2u24 small form factor to large form factor 2u12, 3u16, 4U24 and up to the high density 4u60 and 5u102 JBOD expansion options. The VTrak D5000 is the most affordable Enterprise storage solution starting as low as \$60 per terabytes plus additional savings from less cooling, less rack space and energy costs.





## **VTrak D5000 Specifications**

Models and Controller Feat	ure				
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	D5300x / D5300fx	D5320x / D5320fx	D5600x / D5600fx	D5800x / D5800fx	
Form Factor	2RU	2RU	3RU	4RU	
Drives	12 (LFF) 24 (SFF) 16 (LFF) 24 (LFF) + 4 (SFF)				
Host Connectivity	, port recent and the entering entering and the control of the con				
	D5000xS: iSCSI and NAS Sub-System, Single Controller w/ 2-port 10GSFP+ D5000fxD: FC, iSCSI and NAS Unified Storage Sub-System, Dual HA Controller w/ 4-port 10GSFP+ and 8-port 16Gb FC				
	D5000fxS: FC, iSCSI and NAS Unified Storage Sub-System, Dual HA Controller w/ 4-port 10GSFP+ and 4-port 16Gb FC				
Storage Expansion Ports	2 x 2 12Gb SAS Mini-SAS (SFF-8644) per controller				
Management Ports	2 x RJ-45 1Gb Ethernet and 1 x RJ-11 Serial Port per controller				
Capacity/Expansion	Online Capacity/Volume Expansion up-to 15 JBOD's				
Data Services and Feature					
Max Pools/Volumes	256 volumes per pool, Max 32 pools per System; Max 512 Snapshots / 128 Clones per volume				
Data Services	Snapshot		<ul><li>Thick/Thin Volumes</li><li>Read/Write Cache</li></ul>		
	Thin/Thick Clones <sup>2</sup>		Nead/Write Cache     Online Capacity Expansion		
Advanced Storage Features	Asymmetric LUN Unit Access (ALUA)		Advanced Cache Mirroring over PCIe Gen3		
	LDAP for central user management		Advanced Cache Mirroring over PCIe Gen3     Microsoft AD, LDAP and OD		
	• Linux Permission, POSIX A	CL,NT ACL			
NAS Feature					
Protocol	SAN - FC Block with 16Gb FC or 10GbE iSCSI  NAS - SMB/CIFS v2/v3, NFS v3/v4				
High Availability	NA3 - 3NIB/CIF3 VZ/V3, NF3	V3/V4			
RAID Levels/Stripe	0, 1, 5, 6, 10, 50, 60 RAID Stripe Support 64K, 128K, 256K, 512K and 1MB				
Hot Spares	Global or Dedicated				
Background Scrub	Media Patrol & Redundancy Check     Partial Rebuild				
24016.04114.00140	Background Synchronization     Task Scheduler for Background Activities			und Activities	
Proactive/Predictive Features	Predictive Data Migration (PDM)     Intelligent Red Sector Remarking     Drive Power Management (MAID)				
Floactive/Fledictive realtiles			SMART Error Handling and Write Hole Table		
Ecosystem Integration	111111111111111111111111111111111111111				
Supported OSs	Windows Server 2008, 2012, 2016, macOS 10.x, RHEL 6.5 to 7.2, SLES 11, 11 SP4, and 12 SP1				
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Certifications	VMware ESXi 6.5 & Citrix Server 7.3				
Management Interface					
Protocol	Web Based management us	ing WEB, CLI, SSH, SNMP			
Physical/Environmental					
Power	Voltage: 100240Vac Auto		Voltage: 100240Vac Auto		
	Max Current: 9A @ 100Vac;		Max Current: 12A @ 100Va		
Power Efficiency	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range, 80Plus Certified PSU				
Temperature Range	Operational: 5° to 35°C, Non-Operational: -40° to 60°C				
Humidity	Operational: 20% to 80%, NonOperational: ~ 95% (Non-Condensing)				
Noise Levels & Shock	< 60dB, 25C, Operational: 5G, 11 ms Duration, Non-Operational: 30G, 11ms duration				
	Operational: 0.2G, 5 to 500Hz (sine wave); 0.41G, 3-10-200-500Hz (Random), Non-Operational:				
Vibration	1G, 5 to 500Hz (sine wave); 2.256G, 5-80-350-500Hz (Random)				
Regulatory/Safety	EMC Class-A: CE, FCC, VCCI, BSMI, RCM / Safety: IEEE CB, cTUVus / Environmental: RoHS2, GreenPC, WEEE				
Warranty and Support		, , , , , , , , , , , , , , , , , , , ,	, , =	,	
Warranty	3-year full system limited wa	arranty including PROMISE PS	P. ontional extended warranty		
Support	3-year full system limited warranty including PROMISE PSP, optional extended warranty 24/7 e-mail and phone support, 24/7 access to PROMISE site-drives and firmware upgrade				
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<sup>&</sup>lt;sup>1</sup> SATA drives require a SAS-SATA adapter, <sup>2</sup> Thick Clones supported in SR1.1 or newer

