



VTrak Ex30 SR2 Compatibility List

Supports Service Release 2 Date: 12/20/2011

VTrak Systems Covered:

- 3U/16-bay 8Gb Fibre to 6Gbs SAS/SATA RAID System VTrak E630f ٠
 - VTrak E830f - 4U/24-bay 8Gbs SAS to 6Gbs SAS/SATA RAID System
 - VTrak J630s - 3U/16-bay 3Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System
- VTrak J830s - 4U/24-bay 6Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System

System Versions Covered:

- ٠ VTrak Ex30 BootLoader
- VTrak Ex30 Firmware
- VTrak Ex30 Software •
- 6Gbs VTrak Jx30s Firmware .
- Version 0.19.0000.30 [Jan 10, 2011]
- Version 4.06.0000.01 [Nov 11, 2011]
- Version 4.06.0000. 01[Nov 11, 2011]
- Version 6.13.0000.05 [Oct 26, 2011]
- Windows PerfectPath MPIO DSM Version 4.00.0000.00 [WHQL Certified]



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Document History

Date	Editor	Deviation
10/20/2011	Reeba Thomas	1. Initial list for VTrak Ex30 SR1 Compatibility
11/4/2011	Reeba Thomas	1. Minor edits after implementing review comments
11/16/2011	Reeba Thomas	1. Updated Release Version Number
12/20/2011	Reeba Thomas	1. Added new drives to the list

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd party device and Promise device has been verified in typical configurations, unless otherwise stated.

DISCLAIMERS:

Only the versions available at time of testing have been verified, as listed. Corner cases may exist depending on user configuration etc. Individual 3rd party units may exhibit problems that did not show up in through the Promise test process. Published performance is not assured with configuration deviations.

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Operating Systems

Supported Operating Environments				
Vendor	Core Platform	Туре	Notes	
	Windows Server 2008 w/SP2	x86/x64	ALUA support with PerfectPath v4.00 or later.	
Microsoft	Windows Server 2008 Hyper-V w/SP2	x64	ALUA support with PerfectPath v4.00 or later.	
	Windows Server 2008 R2	x64	ALUA support with PerfectPath v4.00 or later.	
RedHat	Enterprise Linux 5.6	x86/x64	LUN Affinity/ALUA natively supported.	
Reamat	Enterprise Linux 6.0	x86/x64	LUN Affinity/ALUA natively supported.	
SuSE	Linux Enterprise Server 11.1	x86/x64	LUN Affinity/ALUA natively supported.	
VMware	ESX Server v4.1 Update 1	x64	LUN Affinity/ALUA natively supported.	

Note: VMware has been qualified by Promise and then certified by VMware.

Fibre Channel Host Bus Adapters

Fibre Chan	nel HBAs						
Vendor	Model	BIOS	Firmware	Fcode	Windows	Linux	VMware Tested †
Brocade	FC425	v3.0.0.0	v3.0.0.0		v3.0.0.0	v3.0.0.0	Supported
Diocaue	FC825	v3.0.0.0	v3.0.0.0		v3.0.0.0	v3.0.0.0	Certified
	LightPulse LPe12000	2.12a6	2.00a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
	LightPulse LPe12002	2.12a6	2.00a4	3.10a3	2.50.007	8.3.5.44.4p	Certified
	LightPulse LPe12004	2.12a6	2.00a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
Emulex	LightPulse LPe1250	2.12a6	2.00a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
LINUICA	LightPulse LPe11000	2.12a6	2.82a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
	LightPulse LPe11002	2.12a6	2.82a4	3.10a3	2.50.007	8.3.5.44.4p	Certified
	LightPulse LPe11004	2.12a6	2.82a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
	LightPulse LPe1150	2.12a6	2.82a4	3.10a3	2.50.007	8.3.5.44.4p	Supported
	SANblade QLE2560	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Supported
	SANblade QLE2562	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Supported
Olegie	SANblade QLE2564	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Certified
Qlogic	SANblade QLE2460	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Supported
	SANblade QLE2462	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Supported
	SANblade QLE2464	3.00	5.04.04	3.15	9.1.9.27	8.03.07.03	Certified
1.01	LSI7204EP	2.02.06	1.03.27	1.00.49	1.27.01	4.00.43	Supported
LSI	LSI7404EP	2.02.06	1.03.27	1.00.49	1.27.01	4.00.43	Supported
4770	Celerity FC84EN	3.24	3.24		1.32	1.32	Supported
ATTO	Celerity FC82EN	3.24	3.24		1.32	1.32	Supported

⁺ 'VMware Tested' column indicates the level of support for VMware ESX 4.1 Update 1. 'Certified' indicates the controller was fully qualified by Promise and was used in the VMware certification test process using the Workbench test suite. 'Supported' implies the controller should work at the same level as the certified model as it is based on the same driver level and some spot testing has been performed.



Fibre Channel Switches and SFPs

Fibre Cha	Fibre Channel Switches					
Vendor	Model	Ports	Firmware			
	SilkWorm 200E	16x4Gb	v5.1.0			
	Brocade 300	24x8Gb	6.4.1b			
Brocade	Brocade 5100	40x8Gb	6.4.1b			
biocaue	Brocade 5000	32x4Gb	v6.1.1			
	Brocade 8000	24x10Gb FCoE/iSCSI 8x8Gb FC	v6.4.1b			
	MDS 9020	20x4Gb	v2.1			
Cisco	MDS 9148	48x8Gb	v5.2			
CISCO	NEXUS 5010	20x10Gb FCoE/iSCSI 6x8Gb FC	v4.1(3)N2(1)			
IBM	TotalStorage SAN16B-2	16x4Gb	v6.2.2c			
	SANbox 5600Q	16x4Gb	v7.4.0.22.0			
	SANbox 9000 - 4Gb blade	32-128x4Gb	v7.8.0.8.0			
Qlogic	SANbox 9000 - 8Gb blade	32-128x8Gb	v7.8.0.8.0			
	SANbox 1400	10x4Gb	v5.0.1.10			
	SANbox 5802V	20x8Gb	v7.4.0.16			

SFP Interoperability Matrix (Shortwave)				
Vendor	Model	Description		
Apple	4Gb SFP to SFP	2.9M 4Gb SFP Copper Cable (Qlogic 4Gb and 8Gb only)		
Avago	AFBR-57D7APZ	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C		
Brocade	57-1000012-01	Brocade 8Gb Shortwave SFP		
Cisco	DS-SFP-FC8G-SW	Cisco 8Gb Shortwave SFP		
Finisar	FTLF8528P2BCV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 70°C		
Finisar	FTLF8528P2BNV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C		
Finisar	FTLF8524P2BNL	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 70°C		
Finisar	FTLF8528P2BNV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C		

Hard Disk Drives

VTrak Ex30 and Jx30 Drive Compatibility List							
Vendor	Family	Model	Part Number	Firmware	Capacity	RPM	Interface
		HUA723020ALA640	0F12455	5C0	2000GB	7,200	6Gb/s SATA
	Ultrastar	HUA723030ALA640	0F12456	5C0	3000GB	7,200	6Gb/s SATA
	7K3000	HUS723030ALS640	0B26311	A100	3000GB	7,200	6Gb/s SAS
		HUS723020ALS640	0B26312	A100	2000GB	7,200	6Gb/s SAS
		HUA722020ALA330	0F10452	3EA	2000GB	7,200	3Gb/s SATA
Hitachi	Ultrastar	HUA722010CLA330	0A39289	3EA	1000GB	7,200	3Gb/s SATA
	A7K2000 Ultrastar	HUA722050CLA330	0F11000	3EA	500GB	7,200	3Gb/s SATA
		HUS156030VLS600	0B23661	A5D0	300GB	15000	6Gb/s SAS
	15K600	HUS156045VLS600	0B23662	A5D0	450GB	15000	6Gb/s SAS



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		HUS156060VLS600	0B23663	A5D0	600	15000	6Gb/s SAS
Intel	710 SSD Series	SSDSA2BZ100G23	SSDSA2BZ100G23	0362	100GB	SSD/MLC	3Gb/s SATA
	710 33D Series	SSDSA2BZ200G23	SSDSA2BZ200G23	0362	200GB	SSD/MLC	3Gb/s SATA
inter		SSDSA2SH064G101	SSDSA2SH064G101	8860	64GB	SSD/SLC	3Gb/s SATA
	Х25-Е	SSDSA2SH032G101	SSDSA2SH032G101	8860	32GB	SSD/SLC	3Gb/s SATA
		ST500NM0001	9YZ262-001	0002	500GB	7,200	6Gb/s SAS
		ST1000NM0001	9YZ264001	0002	1000GB	7,200	6Gb/s SAS
	Constellation ES SAS	ST2000NM0001	9YZ268-001	0002	2000GB	7,200	6Gb/s SAS
	Models	ST32000444SS	9JX248-003	0006	2000GB	7,200	6Gb/s SAS
Seagate		ST31000424SS	9JX244-003	0006	1000GB	7,200	6Gb/s SAS
-		ST3500414SS	9JX242-003	0006	500GB	7,200	6Gb/s SAS
	Constellation ES2	ST33000650SS	9SM260-002	0003	3000GB	7,200	6Gb/s SAS
		ST3600057SS	9FS066-008	0008	600GB	15000	6Gb/s SAS
	Cheetah 15K.7	ST3450857SS	9FR066-008	0008	450GB	15000	6Gb/s SAS
		WD2003FYYS	WD2003FYYS- 02W0B0	1D01	2000GB	7,200	3Gb/s SATA
Western Digital	RAID Edition 4	WD1503FYYS	WD1503FYYS- 02W0B0	1D01	1500GB	7,200	3Gb/s SATA
		MK1001TRKB	HDD3A02CZK51	0105	1000GB	7,200	6Gb/s SAS
Toshiba		MK1002TSKB	HDD3B04CZK51	MT2A	1000GB	7,200	6Gb/s SATA
10511100		MK2001TRKB	MK2001TRKB	0105	2000GB	7,200	6Gb/s SAS
		MK2002TSKB	MK2002TSKB	MT2A	2000GB	7,200	6Gb/s SATA

Hard Disk Drive APM Support Level with MAID 2.0

Supported Disk Drives with Advanced Power Management							
				VTrak MAID Support			
Vendor	Family	Firmware	Interface	Park Heads Level-1	Reduce RPM Level-2	Spin-down Level-3	
Hitachi	Ultrastar A7K2000	3EA	3Gb/s SATA	YES	YES	YES	
Hitachi	Ultrastar A7K3000	5C0	6Gb/s SATA	YES	YES	YES	
Intel	Х25-Е	8850	3Gb/s SATA	n/a	n/a	n/a	
	Cheetah 15K.7	0008	6Gb/s SAS	YES	NO	YES	
Seagate	Constellation ES	0006	6Gb/s SAS	YES	YES	YES	
	Constellation ES 2	0003	6Gb/s SAS	YES	YES	YES	
Western Digital	RAID Edition 4	1D01	3Gb/s SATA	YES	NO	YES	

[‡] Promise qualified drives will be the only supported drives for the VTrak systems. The support requirements will be derived from the drive part numbers listed above and not necessarily by the model number. Using unqualified disk drives with the system may appear to work but cannot be guaranteed for the service life.



UPS Appliances

UPS Support*	HW Rev.	APC OS	APP. Module SW
[§] APC Smart-UPS 1500VA - North America	667.18.D	v3.6.1	v3.5.8
[§] APC Smart-UPS 2200VA - North America	667.18.D	v3.6.1	v3.5.8
[§] APC Smart-UPS 3000VA - North America	667.18.D	v3.6.1	v3.5.8

*Tested with Ex30 Initial Release

USB Flash Drives (OPAS Service Port)

Vendor**	Family	MFG Part Number	Capacity
НР	v125w	P-FD4GBHP125-EF	4GB
Pretec	i-Disk	Q3U04G	4GB

Promise Validated Applications

Validated Ap	Validated Applications					
Vendor	Product	Version	Description			
	Microsoft Cluster Service	2008 Server	Fail-over Cluster Service			
Microsoft	Microsoft Cluster Service	2008 Server R2	Fail-over Cluster Service			
Oracle	Lustre Filesystem	v1.8.5	Clustered Filesystem			
Quantum	Stornext Filesystem	v4.0.1.1	Distributed Filesystem (over FC) Storage Consolidation Hetrogenous Windows/Linux/Mac environments Distibuted LAN Clients (over Ethernet)			
Quantum	Stornext Storage Manager	v4.0.1.1	Storage Tiering Archiving Data Deduplication Replication			
	Global Filesystem	GFS2	Clustered Filesystem			
RedHat	RH Cluster	RHEL 5.6 and 6	Fail-over Cluster Service			
Symmantec	Storage Foundation (for Windows)	v5.1 SP2	VERITAS Volume Management VERITAS Cluster Service (VCS)			

[§] The above UPS models were fully validated for use with a properly configured VTrak Ex30 system. For other regions that use different power sources, such as Japan, using the APC Smart-UPS equivalent will be supported.

^{**} There is a large variety of USB Flash Drive vendors to select from on the market. The Promise qualification team selected only a handful to represent only a sampling of available Flash Drives. The above list shows the drives that have passed a rigorous read/write/discovery test process are deemed worthy of use out-of-the-box. There were other USB Flash drives that did not function properly out-of-the-box, and required a partition and format in order to use them.



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Promise Validated Browsers for WebPAM PROe

Validated Web Browsers for Ex30 WebPAM PROe		
Product	Version	
Internet Explorer	8.0.7600.16385	
Safari for Mac	5.1	
Safari for Windows	5.1	
Mozilla Firefox for Windows	4.0.1	
Mozilla Firefox for RHEL	4.0.1	
Mozilla Firefox for SLES 11.1	4.0.1	

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