



VTrak E-Class Compatibility List

Supports Service Release 2.6

Date: 10/08/2010

VTrak Systems Covered:

- **VTrak E310f** – 2U/12-bay 4Gb Fibre to 3Gbs SAS/SATA RAID System
- **VTrak E310s** – 2U/12-bay 3Gbs SAS to 3Gbs SAS/SATA RAID System
- **VTrak E610f** – 3U/16-bay 4Gb Fibre to 3Gbs SAS/SATA RAID System
- **VTrak E610s** – 3U/16-bay 3Gbs SAS to 3Gbs SAS/SATA RAID System
- **VTrak J310s** – 2U/12-bay 3Gbs SAS to 3Gbs SAS/SATA Expansion JBOD System
- **VTrak J610s** – 3U/16-bay 3Gbs SAS to 3Gbs SAS/SATA Expansion JBOD System
- **VTrak J630s** – 3U/16-bay 6Gbs 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:

- **VTrak Ex10 BootLoader** – Version 1.02.0000.04 [July 7, 2010]
- **VTrak Ex10 Firmware** – Version 3.34.0000.00 [July 7, 2010]
- **VTrak Ex10 Software** – Version 3.34.0000.00 [July 7, 2010]
- **3Gbs VTrak Jx10s Firmware** – Version 1.07.0000.15 [July 7, 2010]
- **6Gbs VTrak Jx30s Firmware** – Version 6.04.0000.07 [July 7, 2010]
- **Windows PerfectPath MPIO DSM** – Version 3.01.0000.00 [WHQL Certified]

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.

The VTrak J-Class expansion JBOD systems were added to the compatibility list for the hard disk drive compatibility. Disk drives are certified in the J-Class when E-Class is used as the JBOD host.

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Document History

Date	Editor	Deviation
7/12/2010	M. Mickelson	<ol style="list-style-type: none"> 1. Updated listings for E-Class Service Release 2.6. 2. Added the Promise J630s and J830s 6Gbs SAS to SAS/SATA Expansion JBODs. 3. All pre-existing HBAs BIOS, Firmware, and drivers were updated to the latest vendor supported levels. 4. Added Qlogic SANblade QLE2564 FC HBA. 5. Added LSI SAS9212-4i4e and SAS9200-16e SAS HBAs. 6. Added Toshiba MBD2300 family SAS disk drives with capacities of 147GB and 300GB. 7. Added Toshiba MBE2147 family SAS disk drives with capacities of 73GB and 147GB. 8. Added Hitachi Ultrastar C15K147 family SAS disk drives with capacities of 73GB and 147GB. 9. Added Hitachi Ultrastar C10K300 family SAS disk drives with capacities of 147GB and 300GB. 10. Added Seagate Savvio 10K.3 family SAS disk drives with capacities of 147GB and 300GB. 11. Added Seagate Savvio 15K.2 family SAS disk drives with capacities of 73GB and 147GB. 12. Added Intel X25-M family MLC based solid state disk drives with capacities of 80GB and 160GB. 13. Added Pliant Technology Lightning EFD family SLC based solid state disk drives with capacities of 150GB and 300GB. 14. Added OCZ Technology VERTEX EX SLC based solid state disk drive with a capacity of 60GB. 15. Added SuperTalent TeraDrive CT family MLC based solid state disk drives with capacities of 60GB, 120GB, 240GB, and 480GB. 16. Added Seagate Constellation SAS disk drives with capacity of 500GB. 17. Added Western Digital RE4 family SATA disk drives with capacities of 1500GB and 2000GB. 18. Added Western Digital RE4-GP Model WD2002FYPS-02W3B0 SATA disk drives with a capacity of 2000GB. This model should replace the previous WD2002FYPS-01U1B0 which corrects a compatibility issue with SAS expanders. 19. Added Microsoft Windows 2008 Server R2 operating system and cluster service support. 20. Added Oracle Enterprise Linux v5.3 operating system support. 21. Added RedHat Enterprise Linux v5.4 operating system support. 22. Added APC Smart-UPS 1500VA – Japan model for support in the Japan region. 23. SR2.6 adds new power management capabilities for the hard disk drives through MAID 2.0. A section has been added to show which levels of MAID are supported with the supported HDDs. 24. Additional columns have been added for the hard disk drives that show which VTrak chassis the drives have been qualified in. For example, older hard disk drives are not compatible with the newer Jx30 chassis and 2.5" SAS drives are not supported in the Ex10 or Jx10 chassis but are supported in the Jx30 chassis without the need of special drive carriers. 25. An additional column was added for the HBAs to show the VMware ESX support level for the SR2.6 release.
10/08/2010	M. Mickelson	<ol style="list-style-type: none"> 1. Corrected Seagate Cheetah 15K.7 cache size.



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Fibre Channel Host Bus Adapters

Fibre Channel HBAs						
Vendor / Model	BIOS	Firmware	Fcode	Windows	Linux	VMware Tested [†]
ATTO Celerity FC-22XH	v1.20	111307	n/a	v2.62	v2.61	NO
ATTO Celerity FC-42XS	v3.23	111309	n/a	v2.62	v2.64	NO
ATTO Celerity FC-42ES	v3.23	111309	n/a	v2.62	v2.64	NO
ATTO Celerity FC-44ES	v3.23	111309	n/a	v2.62	v2.64	NO
Brocade FC815	v2.2.0.0	v2.2.0.0		v2.2.0.0	v2.2.0.0	Supported
Brocade FC825	v2.2.0.0	v2.2.0.0		v2.2.0.0	v2.2.0.0	Certified
Emulex LightPulse LPe12000	2.02a2	1.11a5	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LPe12002	2.02a2	1.11a5	3.10a3	2.32.002	8.2.0.71	Certified
Emulex LightPulse LPe1250	2.02a2	1.11a5	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LPe11000	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LPe11002	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Certified
Emulex LightPulse LPe11004	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LPe1150	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LP9802	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	NO
Emulex LightPulse LP982	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	NO
Emulex LightPulse LPe111	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LP10000	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LP11000	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
Emulex LightPulse LP11002	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Certified
Emulex LightPulse LP1150	2.02a2	2.80a4	3.10a3	2.32.002	8.2.0.71	Supported
LSI 7404EP-LC	2.02.06	1.03.27	1.00.49	1.27.01	4.00.43	NO
LSI 7204EP-LC	2.02.06	1.03.27	1.00.49	1.27.01	4.00.43	NO
LSI 7104EP-LC	2.02.06	1.03.27	1.00.49	1.27.01	4.00.43	NO
LSI 7204XP-LC	2.02.06	1.03.24	1.00.49	1.27.01	4.00.43	NO
LSI 7104XP-LC	2.02.06	1.03.24	1.00.49	1.27.01	4.00.43	NO
LSI 7202XP-LC	2.02.06	1.03.24	1.00.49	1.27.01	4.00.43	NO
LSI 7102XP-LC	2.02.06	1.03.24	1.00.49	1.27.01	4.00.43	NO
Qlogic SANblade QLE2560	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLE2562	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLE2564	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Certified
Qlogic SANblade QLE2460	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLE2462	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLE2464	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Certified
Qlogic SANblade QLA2462	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLA2460	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
Qlogic SANblade QLA2342	1.54	4.03.01	2.12	9.1.7.18	8.02.14.01	Supported
Qlogic SANblade QLA2340	1.54	4.03.01	2.12	9.1.7.18	8.02.14.01	Supported

[†] 'VMware Tested' column indicates the level of support for VMware ESX 4.0 Update 1. 'Certified' indicates the controller was fully qualified by Promise and was used in the VMware certification test process using the CVA 2.2 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.

SAS Host Bus Adapters

SAS HBAs						
Vendor	Model	BIOS	Firmware	Windows	Linux	VMware Tested [‡]
LSI Logic	SAS3801X	v6.28.00	v1.30.00-IT	v1.31.02	v4.22.00.00-1	Supported
	SAS3801E	v6.28.00	v1.30.00-IT	v1.31.02	v4.22.00.00-1	Certified
	SAS3442X-R	v6.28.00	v1.29.00-IR	v1.31.02	v4.22.00.00-1	Supported
	SAS3442E-R	v6.28.00	v1.29.00-IR	v1.31.02	v4.22.00.00-1	Supported
	SAS31601E	v6.28.00	v1.29.00-IT	v1.31.02	v4.22.00.00-1	Supported
	SAS9212 4i4e	v7.00.0	v5.00.00	v2.00.21	v4.00.01.00	Certified
	SAS9200-16e	v7.00.0	v5.00.00	v2.00.21	v4.00.01.00	Supported
	SAS9200-8e	v7.00.0	v5.00.00	v2.00.21	v4.00.01.00	Certified

Intel MFSYS25 Modular Server

Intel Modular Server – MFSYS25 and MFSYS35

Running **Management Module GUI Operation Code 6.1.100.20100419.20225** will support the Promise VTrak E310s/E610s RAID Systems.

Intel Resource Page:

<http://www.intel.com/products/server/modular-server/modular-server/modular-server-overview.htm>

[‡] 'VMware Tested' column indicates the level of support for VMware ESX 4.0 Update 1. 'Certified' indicates the controller was fully qualified by Promise and was used in the VMware certification test process using the CVA 2.2 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 Channel Switches			
Vendor	Model	Ports	Firmware
Brocade	SilkWorm 200E	16x4Gb	v5.1.0
	SilkWorm 3802	16x2Gb	v3.2.1c
	SilkWorm 3200	8x2Gb	v3.2.1c
	Brocade 300	24x8Gb	v7.0.1
	Brocade 5100	40x8Gb	v7.0.1
	Brocade 5000	32x4Gb	v6.1.1
Cisco	MDS 9020	20x4Gb	v1.7.8.0
IBM	TotalStorage SAN16B-2	16x4Gb	v6.0.0c
	TotalStorage SAN16M-2	16x4Gb	v09.07
McDATA	Sphereon 4400	16x4Gb	v09.06.01
	Sphereon 4500	24x2Gb	v09.06.01
Qlogic	SANbox 5600Q	16x4Gb	v7.4.0.16
	SANbox 5200	16x2Gb	v7.4.0.16
	SANbox 9000 - 4Gb blade	32-128x4Gb	v7.8.0.08
	SANbox 9000 - 8Gb blade	32-128x8Gb	v7.8.0.08
	SANbox 1400	10x4Gb	v5.0.1.10
	SANbox 5802V	20x8Gb	v7.4.0.16

SFP Interoperability Matrix (Shortwave)		
Vendor	Model	Type
Agilent	HFBR-5720L	2Gb Multi-mode
Avago	AFBR-57R5APZ	4Gb Multi-mode
Brocade	BRC-JSP-21L0AA1	2Gb Multi-mode
Cisco	CIS-GLC-SX-MM	2Gb Multi-mode
Excelight	SCP6586-GL-CN	2Gb Multi-mode
Finisar	FTRJ8519P1WNL	2Gb Multi-mode
	FTLF8524P2xNy	4Gb Multi-mode
	FTRJ8524P2xNy	4Gb Multi-mode
	FTLF8528P2BCV-QL	8Gb Multi-mode
HP	CPD-221470-B21	2Gb Multi-mode
Intel	TXN3111	2Gb Multi-mode
	TXN31115D2	4Gb Multi-mode
	TXN31115	4Gb Multi-mode
JDS Uniphase	JSH-42S4AA1	4Gb Multi-mode
	JSM-42S4AA1	4Gb Multi-mode
McData	MCD-IPSSFPP-SX	2Gb Multi-mode
Picolight	PL-XPL-VC-S23-12	2Gb Multi-mode
	PLRXPL-VE-SG4-62	4Gb Multi-mode
	PLRXPL-VE-SG4-62-N	4Gb Multi-mode
Stratos Lightwave	SPLC-20-8-1-B	2Gb Multi-mode
	SPLC-20-F-1-B	4Gb Multi-mode



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Online SAS Hard Disk Drives

Online Storage Drives [SAS]								E-Class SR2.6 Release (July 2010)		
Vendor	Family	Model	Firmware	Capacity	RPM	Buffer	Interface	Ex10	Jx10s	Jx30s
Fujitsu/ Toshiba	MAX3147 SAS	MAX3147RC	103	147GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		MAX3073RC	103	73GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		MAX3036RC	103	36GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
	MBA3300 SAS	MBA3300RC	103	300GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
		MBA3147RC	103	147GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
		MBA3073RC	103	73GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
	MBD2300	MBD2300RC	102	300GB	10,000RPM	16MB	6Gb/s SAS	NO	NO	YES
		MBD2147RC	102	147GB	10,000RPM	16MB	6Gb/s SAS	NO	NO	YES
	MBE2147	MBE2147RC	102	147GB	15,000 RPM	16MB	6Gb/s SAS	NO	NO	YES
		MBE2073RC	102	73GB	15,000 RPM	16MB	6Gb/s SAS	NO	NO	YES
Hitachi	Ultrastar 15K600	HUS156060VLS600	A392	600GB	15,000 RPM	64MB	6Gb/s SAS	YES	YES	YES
		HUS156045VLS600	A392	450GB	15,000 RPM	64MB	6Gb/s SAS	YES	YES	YES
		HUS156030VLS600	A392	300GB	15,000 RPM	64MB	6Gb/s SAS	YES	YES	YES
	Ultrastar 15K450	HUS154545VLS300	A570	450GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
		HUS154530VLS400	A570	300GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
	Ultrastar 15K300	HUS153030VLS300	A120	300GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		HUS153014VLS300	A120	147GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		HUS153073VLS300	A120	73GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
	Ultrastar 15K147	HUS151414VLS300	A420	147GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		HUS151473VLS300	A420	73GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		HUS151436VLS300	A420	36GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
	Ultrastar C15K147	HUC151414CSS600	A420	147GB	15,000 RPM	64MB	6Gb/s SAS	NO	NO	YES
		HUC151473CSS600	A420	73GB	15,000 RPM	64MB	6Gb/s SAS	NO	NO	YES
		HUC153030CSS600	A420	300GB	10,000RPM	64MB	6Gb/s SAS	NO	NO	YES
		HUC103014CSS600	A420	147GB	10,000RPM	64MB	6Gb/s SAS	NO	NO	YES
	Seagate	Cheetah 15K.7	ST3600057SS	0006	600GB	15,000 RPM	16MB	6Gb/s SAS	YES	YES
ST3450857SS			0006	450GB	15,000 RPM	16MB	6Gb/s SAS	YES	YES	YES
ST3300657SS			0006	300GB	15,000 RPM	16MB	6Gb/s SAS	YES	YES	YES
Cheetah 15K.6		ST3450856SS	0005/0006	450GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
		ST3300656SS	0005/0006	300GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
		ST3146356SS	0005/0006	146GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
Cheetah 15K.5		ST3300655SS	0002/0004	300GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		ST3146855SS	0002/0004	147GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
		ST373455SS	0002/0004	73GB	15,000 RPM	16MB	3Gb/s SAS	YES	YES	NO
Cheetah 15K.4		ST3146854SS	0004	147GB	15,000 RPM	8MB	3Gb/s SAS	YES	YES	NO
		ST373454SS	0004	73GB	15,000 RPM	8MB	3Gb/s SAS	YES	YES	NO
		ST336754SS	0004	36GB	15,000 RPM	8MB	3Gb/s SAS	YES	YES	NO
Cheetah NS.2		ST3600002SS	0004	600GB	10,000 RPM	16MB	6Gb/s SAS	YES	YES	YES
		ST3450802SS	0004	450GB	10,000 RPM	16MB	6Gb/s SAS	YES	YES	YES
Cheetah NS		ST3400755SS	0003	400GB	10,000 RPM	16MB	3Gb/s SAS	YES	YES	YES
Savvio 10K.3		ST9300603SS	0006	300GB	10,000RPM	16MB	6Gb/s SAS	NO	NO	YES
		ST9146803SS	0006	147GB	10,000RPM	16MB	6Gb/s SAS	NO	NO	YES
Savvio 15K.2		ST9146852SS	0004	147GB	15,000 RPM	16MB	6Gb/s SAS	NO	NO	YES
	ST973452SS	0004	73GB	15,000 RPM	16MB	6Gb/s SAS	NO	NO	YES	

**BLUE Models are additions derived from the SR2.6 Release.

***ORANGE Capacities were actual capacities in test. Other capacities are assumed to work but were not tested.



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Solid State Disk Drives

Enterprise Class Solid State Drives							E-Class SR2.6 Release (July 2010)			
Vendor	Family	Model	Firmware	Capacity	Type	Buffer	Interface	Ex10	Jx10s	Jx30s
Intel	X25-E [§]	SSDSA2SH064G1	8850	64GB	SSD/SLC	32MB	3Gb/s SATA	YES	YES	YES
		SSDSA2SH032G1	8850	32GB	SSD/SLC	32MB	3Gb/s SATA	YES	YES	YES
	X25-M [§]	SSDSA2M160G2	02HD	160GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES
		SSDSA2M080G2GC	02HD	80GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES
OCZ Technology	VERTEX EX [§]	OCZSSD2-1VTXEX60G	1.21	60GB	SSD/SLC	64MB	3Gb/s SATA	YES	YES	YES
Pliant Technology	Lightning EFD ^{**}	LS300S	P103	300GB	SSD/SLC	n/a	3Gb/s SAS	YES	YES	YES
		LS150S	P103	150GB	SSD/SLC	n/a	3Gb/s SAS	YES	YES	YES
		LB150S	P103	150GB	SSD/SLC	n/a	3Gb/s SAS	YES	YES	YES
STEC	MACH8 IOPS [§]	M8ISB2-200C	2269	200GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
		M8ISB2-100UC	2269	100GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
		M8ISB2-50UC	2269	50GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
Super Talent	TeraDrive CT [§]	FTM48CT25H	STTMP2	480GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES
		FTM24CT25H	STTMP2	240GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES
		FTM12CT25H	STTMP2	120GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES
		FTM06CT25H	STTMP2	60GB	SSD/MLC	32MB	3Gb/s SATA	YES	YES	YES

Nearline SAS/SATA Hard Disk Drives

Nearline Storage Drives [SAS/SATA]							E-Class SR2.6 Release (July 2010)				
Vendor	Family	Model	Firmware	Capacity	RPM	Buffer	Interface	Ex10	Jx10s	Jx30s	
Hitachi	Deskstar E7K1000	HDE721010SLA330	3AA	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
		HDE721075SLA330	3AA	750GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
		HDE721050SLA330	3AA	500GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
	Deskstar E7K500	HDS725050KLA360	A10C	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
		Ultrastar A7K1000	HUA721010KLA330	BOA	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	NO
			HUA721075KLA330	BOA	750GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	NO
	HUA721050KLA330		BOA	500GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	NO	
	Ultrastar A7K2000	HUA722020ALA330	3EA	2000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
		HUA722010CLA330	3EA	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
HUA722050CLA330		3EA	500GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES		
Seagate	Barracuda ES	ST3750640NS	3.AEK	750GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
		ST3500630NS	3.AEK	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
		ST3400620NS	3.AEK	400GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
		ST3320620NS	3.AEK	320GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
		ST3250620NS	3.AEK	250GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO	
	Barracuda ES.2	ST31000340NS	SN06	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
		ST3750330NS	SN06	750GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
		ST3500320NS	SN06	500GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES	
	Barracuda ES.2 SAS Models	ST31000640SS	0003	1000GB	7,200 RPM	16MB	3Gb/s SAS	YES	YES	YES	
		ST3750630SS	0003	750GB	7,200 RPM	16MB	3Gb/s SAS	YES	YES	YES	
		ST3500620SS	0003	500GB	7,200 RPM	16MB	3Gb/s SAS	YES	YES	YES	
	Constellation	ST9500430SS	0002	500GB	7,200RPM	16MB	6Gb/s SAS	NO	NO	YES	

[§] Standard Ex10 and Jx10 carriers do not support 2.5" disk drives.

^{**} Pliant Lightning EFD drives will require Predictive Data Migration (PDM) on the VTrak be disabled for the Disk Array built using the EFD.



VTrak E-Class Compatibility List v2.6

Nearline Storage Drives [SAS/SATA]								E-Class SR2.6 Release (July 2010)		
Vendor	Family	Model	Firmware	Capacity	RPM	Buffer	Interface	Ex10	Jx10s	Jx30s
Samsung	SpinPoint F1 RAID	HE103UJ	1AA01113	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES
		HE753LJ	1AA01113	750GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES
	SpinPoint T166	HD501LJ	VT100	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
		HD321KJ	VT100	320GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
	SpinPoint T133	HD401LJ	ZZ100-12	400GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
Western Digital	RAID Edition	WD5000YS	E09	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
		WD1600YS	C06	160GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
	RAID Edition 2	WD7500AYYS	G30	750GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
		WD5001ABYS	G30	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
		WD1601ABYS	G30	160GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	NO
	RAID Edition 2-GP	WD1000FYPS	B01	1000GB	IntelliPower	16MB	3Gb/s SATA	YES	YES	NO
		WD7500AYPS	B01	750GB	IntelliPower	16MB	3Gb/s SATA	YES	YES	NO
		WD5000ABPS	B01	500GB	IntelliPower	16MB	3Gb/s SATA	YES	YES	NO
	RAID Edition 3	WD1002FBYS	C05/C06	1000GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES
		WD7502ABYS	C05/C06	750GB	7,200 RPM	32MB	3Gb/s SATA	YES	YES	YES
		WD5002ABYS	B02/B03	500GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	YES
		WD3202ABYS	B02/B03	320GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	YES
		WD2502ABYS	B02/B03	250GB	7,200 RPM	16MB	3Gb/s SATA	YES	YES	YES
	RAID Edition 4	WD2003FYYS	D01	2000GB	7,200RPM	64MB	3Gb/s SATA	YES	YES	YES
		WD1503FYYS	D01	1500GB	7,200RPM	64MB	3Gb/s SATA	YES	YES	YES
	RAID Edition 4-GP	WD2002FYPS	G05	2000GB	IntelliPower	64MB	3Gb/s SATA	YES	YES	YES
		WD2002FYPS-02W3B0	G01	2000GB	IntelliPower	64MB	3Gb/s SATA	YES	YES	YES
Raptor	WD1500ADFD	Q22	150GB	10,000 RPM	16MB	1.5GB/s SATA	YES	YES	NO	

**BLUE Models are additions derived from the SR2.6 Release.

***ORANGE Capacities were actual capacities in test. Other capacities are assumed to work but were not tested.

Hard Disk Drive APM Support Level with MAID 2.0

Supported Disk Drives with Advanced Power Management				E-Class SR2.6 Release (July 2010)		
Vendor	Family	Firmware	Interface	VTrak MAID Support		
				Park Heads Level-1	Reduce RPM Level-2	Spin-down Level-3
Fujitsu/ Toshiba	MAX3147 SAS	103	3Gb/s SAS	YES	NO	YES
	MBA3300 SAS	103	3Gb/s SAS	YES	NO	YES
	MBD2300	102	6Gb/s SAS	YES	NO	YES
	MBE2147	102	6Gb/s SAS	YES	NO	YES
Hitachi	Deskstar E7K1000	3AA	3Gb/s SATA	YES	YES	YES
	Deskstar E7K500	A10C	3Gb/s SATA	YES	NO	YES
	Ultrastar 15K600	A392	6Gb/s SAS	YES	NO	YES
	Ultrastar 15K450	A570	3Gb/s SAS	YES	NO	YES
	Ultrastar 15K300	A120	3Gb/s SAS	YES	NO	YES
	Ultrastar 15K147	A420	3Gb/s SAS	YES	NO	YES
	Ultrastar A7K1000	B0A	3Gb/s SATA	YES	NO	YES
	Ultrastar A7K2000	3EA	3Gb/s SATA	YES	YES	YES
	Ultrastar C15K147	A330	6Gb/s SAS	YES	NO	YES
	Ultrastar C10K300	A120	6Gb/s SAS	YES	NO	YES

VTrak E-Class Compatibility List v2.6

Supported Disk Drives with Advanced Power Management				E-Class SR2.6 Release (July 2010)		
Vendor	Family	Firmware	Interface	VTrak MAID Support		
				Park Heads Level-1	Reduce RPM Level-2	Spin-down Level-3
Intel	X25-E	8850	3Gb/s SATA	n/a	n/a	n/a
	X25-M	02G9	3Gb/s SATA	n/a	n/a	n/a
OCZ Technology	VERTEX EX	1.21	3Gb/s SATA	n/a	n/a	n/a
Pliant Technology	Lightning EFD	P103	3Gb/s SAS	n/a	n/a	n/a
Samsung	SpinPoint F1 RAID	1AA01113	3Gb/s SATA	YES	NO	YES
	SpinPoint T166	VT100	3Gb/s SATA	YES	NO	YES
	SpinPoint T133	ZZ100-12	3Gb/s SATA	YES	NO	YES
Seagate	Barracuda ES	3.AEK	3Gb/s SATA	YES	NO	YES
	Barracuda ES.2	SN06	3Gb/s SATA	YES	NO	YES
	Barracuda ES.2 SAS	0003	3Gb/s SAS	YES	NO	YES
	Cheetah 15K.7	0006	6Gb/s SAS	YES	NO	YES
	Cheetah 15K.6	0006	3Gb/s SAS	YES	NO	YES
	Cheetah 15K.5	0004	3Gb/s SAS	YES	NO	YES
	Cheetah 15K.4	0004	3Gb/s SAS	YES	NO	YES
	Cheetah NS.2	0002	6Gb/s SAS	YES	NO	YES
	Cheetah NS	0003	3Gb/s SAS	YES	NO	YES
	Constellation	0002	6Gb/s SAS	YES	NO	YES
	Savvio 10K.3	0006	6Gb/s SAS	YES	NO	YES
	Savvio 15K.2	0004	6Gb/s SAS	YES	NO	YES
STEC	MACH8 IOPS	2269	1.5Gb/s SATA	n/a	n/a	n/a
Super Talent	TeraDrive CT	STTMP2	3Gb/s SATA	n/a	n/a	n/a
Western Digital	RAID Edition	E09	3Gb/s SATA	YES	NO	YES
	RAID Edition 2	G30	3Gb/s SATA	YES	NO	YES
	RAID Edition 2-GP	B01	3Gb/s SATA	YES	NO	YES
	RAID Edition 3	C06	3Gb/s SATA	YES	NO	YES
	RAID Edition 4	D01	3Gb/s SATA	YES	NO	YES
	RAID Edition 4-GP	G05	3Gb/s SATA	YES	NO	YES
	Raptor	Q22	1.5Gb/s SATA	YES	NO	YES

Operating Systems

Supported Operating Environments			
Vendor	Core Platform	Type	Notes
Microsoft	Windows Server 2003 w/SP2	x86/x64	ALUA support with PerfectPath v3.01 or later.
	Windows Server 2003 R2 w/SP2	x86/x64	ALUA support with PerfectPath v3.01 or later.
	Windows Server 2008 w/SP1	x86/x64	ALUA support with PerfectPath v3.01 or later.
	Windows Server 2008 w/SP2	x86/x64	ALUA support with PerfectPath v3.01 or later.
	Windows Server 2008 Hyper-V w/SP2	x64	ALUA support with PerfectPath v3.01 or later.
	Windows Server 2008 R2	x64	ALUA support with PerfectPath v3.01 or later.
Oracle	Enterprise Linux 5.3	x86/x64	No LUN Affinity/ALUA support.
RedHat	Enterprise Linux 5.2	x86/x64	No LUN Affinity/ALUA support.
	Enterprise Linux 5.3	x86/x64	No LUN Affinity/ALUA support.
	Enterprise Linux 5.4	x86/x64	LUN Affinity/ALUA natively supported.
SuSE	Linux Enterprise Server 10.2	x86/x64	Redundant SAS dual controller not supported. LUN Affinity/ALUA natively supported.
	Linux Enterprise Server 10.3	x86/x64	Redundant SAS dual controller not supported. LUN Affinity/ALUA natively supported.
	Linux Enterprise Server 11	x86/x64	Redundant SAS dual controller not supported. LUN Affinity/ALUA natively supported.
VMware	ESX Server v3.5 Update 5	x86	No LUN Affinity/ALUA support.
	ESX Server v4.0 Update 1	x64	LUN Affinity/ALUA natively supported.

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

TFTP Servers

TFTP Server	OS Platform
SolarWinds TFTP Server	Windows 2003/2008 Server
TFTP32	Windows 2003/2008 Server
RedHat Packaged TFTP Server	RedHat EL 5.2
SuSE Packaged TFTP Server	Novell SLES 10.2

UPS Appliances

UPS Support	HW Rev.	APC OS	APP. Module SW
APC Smart-UPS 1500VA - Japan	601.17.A	v3.6.1	v3.5.8
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

♠ End of Report ♠