



VTrak E-Class Compatibility List 2.8.5



VTrak E-Class Compatibility List

Supports Service Release 2.8

Update 9/29/2014

VTrak Systems Covered:

- **VTrak E310f** – 2U/12-bay 4Gbs 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 4Gbs 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 Firmware** – Version 3.36.0000.02 [May 11, 2012]
- **VTrak Ex10 Software** – Version 3.36.0000.02 [May 11, 2012]
- **VTrak Ex10 BootLoader** – Version 1.02.0000.03 [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 4.00.0000.00 [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 the Promise test process.

Published performance is not assured with configuration deviations.

The VTrak J310s and J610s 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	Compatibility List Version	Deviation
7/12/2010	M. Mickelson	2.6	1. Updated listings for E-Class Service Release 2.6
10/08/2010	M. Mickelson	2.6	1. Corrected Seagate Cheetah 15K.7 cache size
10/27/2010	M. Mickelson	2.6	1. Added Seagate Constellation ES SAS disk drives with capacities of 500GB, 1000GB, and 2000GB. 2. Updated Seagate Cheetah 15K.7 with firmware 0008. 3. Updated Hitachi Ultrastar 15K600 with firmware A5D0. 4. Added Brocade 8000 switch (8Gb FC Ports). 5. Added Cisco MDS9148 8Gb fabric switch. 6. Added Cisco Nexus 5010 switch (requires Storage Protocol license and 8Gb FC expansion). 7. Updated LSI SAS 9200 Series HBA version info for Phase 7 Release. 8. Updated Promise VTrak Jx30s firmware to include v6.04.0000.08. NOTE: The updated JBOD firmware offers the same level of functionality as the v6.04.0000.07 but adds additional test points for the manufacturing test process.
11/3/2011	R. Brose	2.6.1	1. Moved SAS drives from SATA/Nearline SAS drives to SAS table 2. Updated drives in current EX10 Compatibility table: Cheetah 15K7, Cheetah NS2, Constellation EX Muskie, WD RE4 and RE4GP.
11/4/2011	R. Brose	2.6.2	1. Added Toshiba Mustang SAS drives 2. Added Seagate Constellation ES SAS drives
11/10/2011	R. Brose	2.6.3	1. Added Hitachi Ultrastar 7K3000 2TB SATA drive
11/14/2011	R. Brose	2.7.1	1. Updated Firmware Release to 2.7 2. Added Seagate ES2 3 TB Drive
1/23/2012	R. Brose	2.7.2	1. Added Seagate Constellation ES SATA drives
5/4/2012	R. Brose	2.7.3	2. Added Toshiba Mustang SATA drives
5/21/2012	R. Brose	2.8.1	1. Added Hitachi 7K3000 2TB and 3TB drives
9/12/2013	R. Hutchens	2.8.2	2. Added Seagate Constellation ES.3 drives
9/4/2014	R Hutchens	2.8.3	3. Added HGST 7K4000
9/5/2014	R Hutchens	2.8.3	4. Changed some formatting.
9/11/2014	R Hutchens	2.8.4	5. Corrected last entry.
9/29/2014	R. Hutchens	2.8.5	6. Added disclaimer for greater than 2TB drives.



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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.



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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	v1.30.02	v4.22.00.00-1	Supported
	SAS3442E-R	v6.28.00	v1.29.00-IR	v1.30.02	v4.22.00.00-1	Supported
	SAS31601E	v6.28.00	v1.29.00-IT	v1.30.02	v4.22.00.00-1	Supported
	SAS9212 4i4e	v7.11.0	v7.00.00	v2.00.35	v7.00.00.00-1	Certified
	SAS9200-16e	v7.11.0	v7.00.00	v2.00.35	v7.00.00.00-1	Supported
	SAS9200-8e	v7.11.0	v7.00.00	v2.00.35	v7.00.00.00-1	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
	Brocade 8000	24x10Gb FCoE/iSCSI 8x8Gb FC	v6.0.4c
Cisco	MDS 9020	20x4Gb	v1.7.8.0
	MDS 9148	48x8Gb	v5.0.(1a)
	Nexus 5010	20x10Gb FCoE/iSCSI 8x8Gb FC	v4.1(3)N2(1)
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-IPSSFP-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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SAS Hard Disk Drives

SAS Drives										
E-Class SR2.8 Release May 2012										
Vendor	Family	Model	Firmware	Capacity	RPM	Buffer	Interface	Ex10	Jx10s	Jx30s
Fujitsu/ Toshiba	MAX3147 SAS	MAX3147RC	103	147GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		MAX3073RC	103	73GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		MAX3036RC	103	36GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
	MBA3300 SAS	MBA3300RC	103	300GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
		MBA3147RC	103	147GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
		MBA3073RC	103	73GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
	MBD2300	MBD2300RC	102	300GB	10,000	16MB	6Gb/s SAS	NO	NO	YES
		MBD2147RC	102	147GB	10,000	16MB	6Gb/s SAS	NO	NO	YES
	MBE2147	MBE2147RC	102	147GB	15,000	16MB	6Gb/s SAS	NO	NO	YES
		MBE2073RC	102	73GB	15,000	16MB	6Gb/s SAS	NO	NO	YES
	MKx001 SAS	MK2001TRKB	105	2000 GB	7200	16MB	6Gb/s SAS	YES	YES	YES
		MK1001TRKB	105	931 GB	7200	16MB	6Gb/s SAS	YES	YES	YES
HGST	Ultrastar 7K4000	HUS724040ALS640	A1C4	4000GB	7200	64MB	6Gb/s SAS	YES	YES	YES
		HUS724030ALS640	A1C4	3000GB	7200	64MB	6Gb/s SAS	YES	YES	YES
		HUS724020ALS640	A1C4	2000GB	7200	64MB	6Gb/s SAS	YES	YES	YES
	Ultrastar 7K3000	HUS723020ALS640	A100	2000GB	7200	64MB	6Gb/s SAS	YES	YES	YES
		HUS723030ALS640	A100	3000GB	7200	64MB	6Gb/s SAS	YES	YES	YES
	Ultrastar 15K600	HUS156060VLS600	A392	600GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
		HUS156045VLS600	A392	450GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
		HUS156030VLS600	A392	300GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
	Ultrastar 15K450	HUS154545VLS300	A570	450GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
		HUS154530VLS400	A570	300GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
	Ultrastar 15K300	HUS153030VLS300	A120	300GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		HUS153014VLS300	A120	147GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		HUS153073VLS300	A120	73GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
	Ultrastar 15K147	HUS151414VLS300	A420	147GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		HUS151473VLS300	A420	73GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		HUS151436VLS300	A420	36GB	15,000	16MB	3Gb/s SAS	YES	YES	NO



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	Ultrastar C15K147	HUC151414CSS600	A420	147GB	15,000	64MB	6Gb/s SAS	NO	NO	YES
		HUC151473CSS600	A420	73GB	15,000	64MB	6Gb/s SAS	NO	NO	YES
	Ultrastar C10K300	HUC103030CSS600	A420	300GB	10,000	64MB	6Gb/s SAS	NO	NO	YES
		HUC103014CSS600	A420	147GB	10,000	64MB	6Gb/s SAS	NO	NO	YES
Seagate	Barracuda ES.2 SAS Models	ST31000640SS	3	1000GB	7,200	16MB	3Gb/s SAS	YES	YES	YES
		ST3750630SS	3	750GB	7,200	16MB	3Gb/s SAS	YES	YES	YES
		ST3500620SS	3	500GB	7,200	16MB	3Gb/s SAS	YES	YES	YES
	Cheetah 15K.7	ST3600057SS	6	600GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
		ST3450857SS	6	450GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
		ST3300657SS	6	300GB	15,000	64MB	6Gb/s SAS	YES	YES	YES
	Cheetah 15K.6	ST3450856SS	0005/0006	450GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
		ST3300656SS	0005/0006	300GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
		ST3146356SS	0005/0006	146GB	15,000	16MB	3Gb/s SAS	YES	YES	YES
	Cheetah 15K.5	ST3300655SS	0002/0004	300GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		ST3146855SS	0002/0004	147GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
		ST373455SS	0002/0004	73GB	15,000	16MB	3Gb/s SAS	YES	YES	NO
	Cheetah 15K.4	ST3146854SS	4	147GB	15,000	8MB	3Gb/s SAS	YES	YES	NO
		ST373454SS	4	73GB	15,000	8MB	3Gb/s SAS	YES	YES	NO
		ST336754SS	4	36GB	15,000	8MB	3Gb/s SAS	YES	YES	NO
	Cheetah NS.2	ST3600002SS	4	600GB	10,000	16MB	6Gb/s SAS	YES	YES	YES
		ST3450802SS	4	450GB	10,000	16MB	6Gb/s SAS	YES	YES	YES
	Cheetah NS	ST3400755SS	3	400GB	10,000	16MB	3Gb/s SAS	YES	YES	YES
	Constellation	ST9500430SS	2	500GB	7,200	16MB	6Gb/s SAS	NO	NO	YES
	Constellation ES	ST2000NM0001	2	2000GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
		ST1000NM0001	2	1000GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
		ST500NM0001	2	500GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
	Constellation ES Muskie	ST32000444SS	6	2000GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
		ST31000424SS	6	1000GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
		ST3500414SS	5	500GB	7,200	16MB	6Gb/s SAS	YES	YES	YES
	Constellation ES2	ST33000650SS	3	3000GB	7,200	64 MB	6Gb/s SAS	YES	YES	YES
	Contellation ES.3	ST4000NM0023	A003	4000GB	7,200	128 MB	6Gb/s SAS	YES	YES	YES
		ST3000NM0023	A003	3000GB	7,200	128 MB	6Gb/s SAS	YES	YES	YES
		ST2000NM0023	A003	2000GB	7,200	6Gb/s SAS	YES	YES	YES	YES
		ST1000NM0023	A003	1000GB	7,200	6Gb/s SAS	YES	YES	YES	YES
	Savvio 10K.3	ST9300603SS	6	300GB	10,000	16MB	6Gb/s SAS	NO	NO	YES



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		ST9146803SS	6	147GB	10,000	16MB	6Gb/s SAS	NO	NO	YES
		ST9146852SS	4	147GB	15,000	16MB	6Gb/s SAS	NO	NO	YES
	Savvio 15K.2	ST973452SS	4	73GB	15,000	16MB	6Gb/s SAS	NO	NO	YES



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Note: SATA hard drive capacity above 2TB will not be usable in the Ex10 Raid system. While drives larger than 2TB will function correctly without loss of data the capacity above 2TB will be unusable.

SATA Hard Disk Drives

SATA Drives		E-Class SR2.8 Release May 2012								
Vendor	Family	Model	Firmware	Capacity	RPM	Buffer	Interface	Ex10	Jx10 s	Jx30 s
Fujitsu	MKx001 SATA	MK2001TSKB	MT2A	2000 GB	7,200	16MB	6Gb/s SATA	YES	YES	YES
		MK1001TSKB	MT2A	931 GB	7,200	16MB	6Gb/s SATA	YES	YES	YES
HGST	Deskstar E7K1000	HDE721010SLA330	3AA	1000GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		HDE721075SLA330	3AA	750GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		HDE721050SLA330	3AA	500GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
	Deskstar E7K500	HDS725050KLA360	A10C	500GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
	Ultrastar A7K1000	HUA721010KLA330	B0A	1000GB	7,200	32MB	3Gb/s SATA	YES	YES	NO
		HUA721075KLA330	B0A	750GB	7,200	32MB	3Gb/s SATA	YES	YES	NO
		HUA721050KLA330	B0A	500GB	7,200	32MB	3Gb/s SATA	YES	YES	NO
	Ultrastar A7K2000	HUA722020ALA330	3EA	2000GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		HUA722010CLA330	3EA	1000GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		HUA722050CLA330	3EA	500GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
	Ultrastar 7K3000	HUA723020ALA640	A5C0	2000GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
	Ultrastar 7K4000	HUS724020ALA640	A70	2000GB	7200	64MB	6Gb/s SATA	YES	YES	YES
Seagate	Constellation ES	ST2000NM0011	SN03	2000GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
		ST1000NM0011	SN03	1000GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
		ST500NM0011	SN03	500GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
	Barracuda ES	ST3750640NS	3.AEK	750GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		ST3500630NS	3.AEK	500GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		ST3400620NS	3.AEK	400GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		ST3320620NS	3.AEK	320GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		ST3250620NS	3.AEK	250GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
	Barracuda ES.2	ST31000340NS	SN06	1000GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		ST3750330NS	SN06	750GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		ST3500320NS	SN06	500GB	7,200	32MB	3Gb/s SATA	YES	YES	YES



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Samsung	SpinPoint F1 RAID	HE103UJ	1AA01113	1000GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		HE753LJ	1AA01113	750GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
	SpinPoint T166	HD501LJ	VT100	500GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		HD321KJ	VT100	320GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
	SpinPoint T133	HD401LJ	ZZ100-12	400GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
Western Digital	RAID Edition	WD5000YS	E09	500GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		WD1600YS	C06	160GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
	RAID Edition 2	WD7500AYYS	G30	750GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		WD5001ABYS	G30	500GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		WD1601ABYS	G30	160GB	7,200	16MB	3Gb/s SATA	YES	YES	NO
		WD1601ABYS	G30	160GB	7,200	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	32MB	3Gb/s SATA	YES	YES	YES
		WD7502ABYS	C05/C06	750GB	7,200	32MB	3Gb/s SATA	YES	YES	YES
		WD5002ABYS	B02/B03	500GB	7,200	16MB	3Gb/s SATA	YES	YES	YES
		WD3202ABYS	B02/B03	320GB	7,200	16MB	3Gb/s SATA	YES	YES	YES
		WD2502ABYS	B02/B03	250GB	7,200	16MB	3Gb/s SATA	YES	YES	YES
	RAID Edition 4	WD2003FYYS	D01	2000GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
		WD1503FYYS	D01	1500GB	7,200	64MB	3Gb/s SATA	YES	YES	YES
	RAID Edition 4-GP	WD2002FYPS-01U1B0	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	16MB	1.5Gb/s SATA	YES	YES	NO



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Solid State Disk Drives

Enterprise Class Solid State Drives										
E-Class SR2.8 Release May 2012										
Vendor	Family	Model	Firmware	Capacity	Type	Buffer	Interface	Ex10	Jx10s	Jx30s
Intel	X25-E[1]	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/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
		FTM24CT25H	STTMP2	240GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
		FTM12CT25H	STTMP2	120GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES
		FTM06CT25H	STTMP2	60GB	SSD/SLC	32MB	1.5Gb/s SATA	YES	YES	YES

Hard Disk Drive APM Support Level with MAID 2.0

Supported Disk Drives with Advanced Power Management						
E-Class SR2.8 Release May 2012						
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



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	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
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
	Constellation ES SAS	0005	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.



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	Enterprise Linux 5.4	x86/x64	LUN Affinity/ALUA natively supported.
SuSE	Linux Enterprise Server 10.2	x86/x64	Redundatn SAS dual controller not supported. LUN Affinity/ALUA natively supported.
	Linux Enterprise Server 10.3	x86/x64	Redundatn SAS dual controller not supported. LUN Affinity/ALUA natively supported.
	Linux Enterprise Server 11	x86/x64	Redundatn SAS dual controller not supported. LUN Affinity/ALUA natively supported.
	Linux Enterprise Server 11	x86/x64	Redundatn 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 ♠