VTrak E5000/EFA5310 SR4.0.3 Compatibility List

Version 1.22

Firmware 11.07.0000.18 Release Date: 08/04/2020

VTrak E5000 Systems Covered:

- **EFA5310 2U/24 , dual controller, 2.5" Drive Bays**
- **E5320 2U/24 , dual controller, 2.5" Drive Bays**
- **E5300 2U/12 , dual controller**
- **E5600 3U/16 , dual controller**
- **E5800 4U/24 , dual controller**

System Versions Covered:

- **VTrak E5000 Firmware**– Version 11.07.0000.01 [Jan. 02, 2019]
- **VTrak E5000 Firmware**- Version 11.07.0000.08 [Jun. 19, 2019]
- **VTrak E5000 Firmware**– Version 11.07.0000.13 [Nov. 28, 2019]
- **VTrak E5000 Firmware**- Version 11.07.0000.18 [Apr. 08, 2020]

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Document History

Date	Editor	Revision	Comments
08/15/2016	F Londono	1.00	Initial list for VTrak E5x00 Compatibility
08/22/2016	R Brose	1.01	Changed FW Version, updating OS, Switch, hba
8/29/2016	R Brose	1.02	Corrected SFP data, Vmware ESXi, Window Server, Hyper-V, formatting.
8/30/2016	F Londono	1.03	Minor formatting adjustments
11/4/2016	F Londono	1.04	Added Toshiba, HGST and Seagate drives
2/3/2017	F Londono	1.05	Added SATA HDD and SSD
2/14/2017	F Londono	1.06	Updated firmware HGST, added Toshiba 2.5" drive and Seagate SSD
2/24/2017	R. Brose	1.07	Changed FW Version, HD's, Drivers, OS's, switches, sfp's updated for SR1 Release.
4/20/2017	F Londono	1.08	Added Micron 5100 SSD, Samsung 850 EVO, Toshiba SATA
9/11/2017	R.Brose	1.09	Added MAC OS 10.12.6, HE-10 8TB, HGST Part Numbers
01/23/2018	KJ Hsu	1.10	Changed E5000 FW Version to SR3 Added Samsung SSD_850-EVO-Pro-1TB Added (Micron) Crucial SSD_MX300-CT1050MX-1TB Added HGST SATA HUA722010CLA330-1TB Added HGST SAS HUH721212Al5200-12TB Change the Prefect Path to v4.1.0.12 on Windows 2012 R2 and 2008 R2.
04/10/2018	KJ Hsu	1.11	Change the compatibility version Add Toshiba MG07ACA12TE Add Toshiba MG07ACA14TE Add HGST Ultra He12 HUH721212ALE604
06/13/2018	KJ Hsu	1.12	Change title to "VTrak E5000/EFA5310 SR3.1 Compatibility List" Revise FW version and release date to "Firmware 11.06.0000.00 Release Date:06/08/2018" Revise E5310 to EFA5310 Update OS item "ALUA support with native Microsoft Multipath I/O (MPIO) in Windows Server 2016" Added Seagate ST12000NM0007 Added Toshiba AL15SEB24EQ Added WDC WD6002FRYZ-01WD5B0
06/25/2018	KJ Hsu	1.13	Added HGST Ultrastar 7K6 SAS HUS726T4TALS204 Added HGST Ultrastar 7K6 SATA HUS726T4TALA6L4
07/31/2018	KJ Hsu	1.13	Added WD HUS728T8TAL5204 Added Toshiba MG06SCA10TE Added Toshiba AL14SXB90EE
22/11/2018	KJ Hsu	1.14	Change to "E5000_SR4.0_Compatibility_List_v1.14" Added HGST Ultrastar 7K6 HUS726T6TAL5204 Added Seagate Enterprise Performance 15K ST900MP0146 Added Seagate Enterprise Performance 10K ST2400MM0129 Added Seagate Enterprise Capacity v5 ST8000NM0075

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			Added Toshiba Enterprise Performance AL14SEB120N Added HGST 7K6 HUS726T6TALE6L4 Added Seagate SKYHAWK Surveillance ST6000VX0023
07/12/2018	KJ Hsu	1.14	Added Toshiba Enterprise MG07SCA14TE Added WD Ultrastar DC HC530 WUH721414AL5204 Added Crucial MX200 CT1000MX200SSD1 Added Samsung Enterprise SSD PM1643 MZILT960HAHQ-00007
18/12/2018	KJ Hsu	1.14	Update the firmware version to 11.07.0000.01 Added SAS cable AMPHENOL 601760008 Added SAS cable MOLEX 1064152103 Added SAS cable CENTERA C04012MSBL005 Added J5910s(4U60) Added J5920s(4U102)
06/03/2019	KJ Hsu	1.14	Added Seagate Exos X14 and Exos X14z ST14000NM0048_FW-E002 Added Seagate Exos X14 and Exos X14z ST14000NM0018_FW-SN02 Updated Crucial SSD CT1000MX200SSD1 firmware to MU05 Updated Samsung SSD MZILT960HAHQ007 firmware to GXF2
23/05/2019	KJ Hsu	1.15	Added Seagate Enterprise Performance 10K ST600MM0009_FW-N001 Added Seagate Enterprise Performance 15K ST900MP0006_FW-N003 Added Seagate SKYHAWK Surveillance ST8000VE0004_FW-EV01 Added Seagate Exos X14 and Exos X14z ST12000NM0008_FW-SN01 Added WD Ultrastar DC HC530 0F31284 Added WD Ultrastar DC HC520 0F30146 Added Toshiba PM5-R SAS SSD KPM51RUG960G_FW-0107 Added Toshiba PM5-R SAS SSD KPM51RUG480G Added Toshiba PM5-R SAS SSD KPM51RUG1T92 Added Toshiba PM5-R SAS SSD KPM51RUG3T84
11/06/2019	KJ Hsu	1.16	Update to v1.16 Added Toshiba Enterprise MG07SCA12TE
01/11/2019	KJ Hsu	1.17	Added innodisk DGS25-01TM71EC1QF-H04 Added innodisk DGS25-02TM71ECAQF-H04 Added Seagate NYTRO3331_XS960SE7004_F-0002 Added Seagate ST16000NM001G-2KK103_FW-SN01 Added Samsun 860pro_MZ-76P1T0_FW-1B6Q Added Toshiba AL15SEB060N_FW-1401 Added Toshiba AL15SEB24EQ Added Toshiba AL15SEB18EQ Added Toshiba AL15SEB12EQ Added Toshiba AL15SEB09EQ Added Toshiba AL15SEB06EQ Added Toshiba SSD KHK61RSE1T92 Added Micron MTFDDAK2T0TDL_FW-M5MU000 Added Micron MTFDDAK1T9QDE_FW-D2MU001 Added Seagate ST8000NM001A Added Seagate ST6000NM029A Added Seagate ST4000NM005A Added Seagate ST2000NM004A Added Seagate ST4000NM003A Added Seagate ST3000NM001A Added Seagate ST2000NM003A Added Seagate ST1000NM001A
04/03/2020	KJ Hsu	1.18	Added Toshiba MG08ACA16TE_FW-0101 Add Toshiba MG04ACA600E_FW-FS3B Add Toshiba MG04ACA500E_FW-FS3B

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			Add Toshiba MG04ACA400E_FW-FS3B Add Toshiba MG04ACA300E_FW-FS3B Add Toshiba MG04ACA200E_FW-FS3B Add Toshiba MG08SCA16TE_FW-0101 Added Brocade G610
06/10/2020	KJ Hsu	1.20	Add WD Ultrastar DC HC550 WUH721818AL5204_FW-C120 Add WD Ultrastar DC HC550 WUH721816AL5204_FW-C232
30/10/2020	KJ Hsu	1.21	Added Citrix Hypervisor 8.2 LTSR Certified. Added Citrix system as following: Citrix Hypervisor 8.2 LTSR Citrix Hypervisor 8.1 Citrix Hypervisor 8.0 Citrix Hypervisor 7.1 LTSR Citrix Hypervisor 7.0 LTSR
31/12/2020	KJ Hsu	1.22	Added WD Red Pro Series: WD2002FFSX_FW-0A830A83 WD4003FFSX_FW-0A830A83 WD6003FFSX_FW-0A830A83 WD8003FFSX_FW-0A830A83 WD101KFBX_FW-0A830A83 WD102KFBX_FW-0A830A83 WD121KFBX_FW-0A830A83 WD141KFGX_FW-0A830A83 WD161KFGX_FW-0A830A83 WD181KFGX_FW-0A830A83 Added WD Ultrastar DC HC550 Series: WUH721818ALE6L4_FW-W120 WUH721816ALE6L4_FW-W120 Added WD Ultrastar DC HC310 Series: HUS728T8TALE6L4_FW-W984 HUS726T6TALE6L4_FW-W984 HUS726T4TALE6L4_FW-W984 Added WD Ultrastar DC HC510 Series: HUH721008AL5200_FW-A21D HUH721010AL5200_FW-A21D Added WD DC HC530 WUH721414AL5204_FW-07G Added Toshiba MG08-D Series MG08ADA400E_FW-0101

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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Hard Disk Drives

SAS

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format
HGST	Ultrastar He12	HUH721212AL5200	0F29530	A3D0	12TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar He10	HUH721010AL5200	0F27352	A21D	10TB	7,200	12Gb/s SAS	3.5"	512e
		HUH721008AL5200	0F27356	A21D	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar He8	HUH728080AL5200	0F23268	A907	8TB	7,200	12Gb/s SAS	3.5"	512e
		HUH728060AL5200	0F23270	A907	6TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar 7K6000	HUS726060AL5210	0F22791	A907	6TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726050AL5210	0F22793	A907	5TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726040AL5210	0F22795	A907	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726020AL5210	0F22799	A907	2TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726040AL5215	0F22825	D907	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726T4TAL5204	0B35919	C40H	4TB	7,200	12Gb/s SAS	3.5"	512e
		HUS726T6TAL5204	0B36047	C40H	6TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar C10K1800	HUC101812CSS200	0B28807	A904	1.2TB	10,000	12Gb/s SAS	2.5"	512n
		HUC101890CSS200	0B27976	A904	900GB	10,000	12Gb/s SAS	2.5"	512n
		HUC101860CSS200	0B28808	A904	600GB	10,000	12Gb/s SAS	2.5"	512n
		HUC101830CSS200	0B28810	A904	300GB	10,000	12Gb/s SAS	2.5"	512n
	Ultrastar C15K600	HUC156060CSS200	0B28953	A904	600GB	15,000	12Gb/s SAS	2.5"	512n
		HUC156045CSS200	0B28954	A904	450GB	15,000	12Gb/s SAS	2.5"	512n
		HUC156030CSS200	0B28955	A904	300GB	15,000	12Gb/s SAS	2.5"	512n
WD	Ultrastar Enterprise Previously Ultrastar 7K8	HUS728T8TAL5204	0B36400	410	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC510	HUH721010AL5200	HUH721010AL5200	A21D	10TB	7,200	12Gb/s SAS	3.5"	512e
		HUH721008AL5200	HUH721008AL5200	A21D	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC530	WUH721414AL5204	0F31052	07A 07G	14TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC550	WUH721818AL5204	0F38353	C120	18TB	7,200	12Gb/s SAS	3.5"	512e
		WUH721816AL5204	0F38357	C232	16TB	7,200	12Gb/s SAS	3.5"	512e
Seagate	Enterprise Capacity 3.5	ST6000NM0095	1Y2210—002	E002	6TB	7,200	12Gb/s SAS	3.5"	512e

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	v5	ST4000NM0025	1V4207-002	N002	4TB	7,200	12Gb/s SAS	3.5"	512n
		ST3000NM0025	1V420N-002	N002	3TB	7,200	12Gb/s SAS	3.5"	512n
		ST8000NM0075	1RM212-003	E003	8TB	7,200	12Gb/s SAS	3.5"	512n
	Enterprise Capacity 3.5 v5 SED	ST4000NM0135	2AR207-002	NF02	4TB	7,200	12Gb/s SAS	3.5"	512n
	Enterprise Capacity 2.5 HDD v3	ST2000NX0273	1FM201-002	E004	2TB	7,200	12Gb/s SAS	2.5"	512e
		ST1000NX0333	1FN201-002	E004	1TB	7,200	12Gb/s SAS	2.5"	512e
	Enterprise Capacity v4	ST6000NM0034	1HT27Z-001	E005	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM0034	1HT278-001	E005	4TB	7,200	12Gb/s SAS	3.5"	512e
		ST2000NM0034	1HT274-001	E005	2TB	7,200	12Gb/s SAS	3.5"	512e
	Enterprise Performance 10K	ST1200MM0088	1FF200-003	N003	1.2TB	10,000	12Gb/s SAS	2.5"	512n
		ST600MM0088	1FD200-004	N003	600GB	10,000	12Gb/s SAS	2.5"	512n
		ST2400MM0129	1XK203-001	C003	2.4TB	10,000	12Gb/s SAS	2.5"	512n
		ST600MM0009	1XF200-001	N001	600GB	10,000	12Gb/s SAS	2.5"	512n
	Enterprise Performance 15K v6	ST900MP0146	1UY203-002	C003	900GB	15K	12Gb/s SAS	2.5"	512n
		ST900MP0006	1UV200-002	N003	900GB	15K	12Gb/s SAS	2.5"	512n
	Exos 7E8	ST8000NM001A	ST8000NM001A	E001	8TB	7,200	12Gb/s SAS	3.5"	512e
		ST6000NM021A	ST6000NM021A	E001	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM002A	ST4000NM002A	E001	4TB	7,200	12Gb/s SAS	3.5"	512e
		ST2000NM001A	ST2000NM001A	E001	2TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM003A	ST4000NM003A	N001	4TB	7,200	12Gb/s SAS	3.5"	512n
		ST3000NM001A	ST3000NM001A	N001	3TB	7,200	12Gb/s SAS	3.5"	512n
		ST2000NM003A	ST2000NM003A	N001	2TB	7,200	12Gb/s SAS	3.5"	512n
		ST1000NM001A	ST1000NM001A	N001	1TB	7,200	12Gb/s SAS	3.5"	512n
	Exos X14 and Exos X14z	ST14000NM0048	2H4201-002	E002	14TB	7,200	12Gb/s SAS	3.5"	512e
Toshiba	**Enterprise Capacity (Tomcat-R)**	MG04SCA60EE	HDEPF10GDA51	0901	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA50EE	HDEPF11GDA51	0901	5TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA40EE	HDEPF12GDA51	0901	4TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA20EE	HDEPF14GDA51	0901	2TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA40EN	HDEPF02GDA51	0901	4TB	7,200	12Gb/s SAS	3.5"	512n

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		MG04SCA20EN	HDEPF04GDA51	0901	2TB	7,200	12Gb/s SAS	3.5”	512n
		MG06SCA10TE	HDEPK10GEA51	0102	10TB	7,200	12Gb/s SAS	3.5”	512e
		MG07SCA12TE	MG07SCA12TE	0101	12TB	7,200	12Gb/s SAS	3.5”	512n
		MG07SCA14TE	HDEPM10GEA51	0101	14TB	7,200	12Gb/s SAS	3.5”	512n
		MG08SCA16TE	MG08SCA16TE	0101	16TB	7,200	12Gb/s SAS	3.5”	512e
	Enterprise Performance	AL14SEB18EQ	HDEBJ10GEA51	0102	1.8TB	10,000	12Gb/s SAS	2.5”	512e
		AL14SEB12EQ	HDEBJ11GEA51	0102	1.2TB	10,000	12Gb/s SAS	2.5”	512e
		AL14SEB09EQ	HDEBJ12GEA51	0102	900GB	10,000	12Gb/s SAS	2.5”	512e
		AL14SXB90EE	HDEAH10GEA51	0101	900GB	15,000	12GB/s SAS	2.5”	512e
		AL14SEB06EQ	HDEBJ13GEA51	0102	600GB	10,000	12Gb/s SAS	2.5”	512e
		AL15SEB24EQ	AL15SEB24EQ	0102	2.4TB	10,500	12Gb/s SAS	2.5”	512e
		AL14SEB120N	HDEBF01GEA51	0103	1.2TB	10,000	12Gb/s SAS	2.5”	512e/ 512n
		AL15SEB060N	AL15SEB060N	1401	600GB	10,000	12Gb/s SAS	2.5”	512e
		AL15SEB030N	AL15SEB030N	1401	300GB	10,000	12Gb/s SAS	2.5”	512e
		AL15SEB24EQ	AL15SEB24EQ	0102	2.4TB	10,500	12Gb/s SAS	2.5”	512e
		AL15SEB18EQ	AL15SEB18EQ	0102	1.8TB	10,500	12Gb/s SAS	2.5”	512e
		AL15SEB12EQ	AL15SEB12EQ	0102	1.2TB	10,500	12Gb/s SAS	2.5”	512e
		AL15SEB09EQ	AL15SEB09EQ	0102	900GB	10,500	12Gb/s SAS	2.5”	512e
		AL15SEB06EQ	AL15SEB06EQ	0102	600GB	10,500	12Gb/s SAS	2.5”	512e

Note: **Drives with 4Kn formatting are not supported**

SATA

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format
HGST	**Ultrastar 7K2000**	HUA722010CLA330	0A39289	A3EA	1TB	7,200	SATA	3.5”	512e
	Ultrastar 7K6000	HUS726060ALE610	0F23001	T7J0	6TB	7,200	SATA	3.5”	512e
		HUS726T4TALA6L4	0B35950	W40H	4TB	7,200	SATA	3.5”	512e
		HUS726T6TALE6L4	0B36039	W40H	6TB	7,200	SATA	3.5”	512e
	Ultrastar He8	HUH728080ALE600	0F23267	T907	8TB	7,200	SATA	3.5”	512e
		HUH728060ALE600	0F23269	T907	6TB	7,200	SATA	3.5”	512e
	Ultrastar He12	HUH721212ALE604	0F30146	LGNT3D0	12TB	7,200	SATA	3.5”	512e

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		HUH721212ALE600	0F30144	LGNT3D0	12TB	7,200	SATA	3.5”	512e
Seagate	Enterprise Capacity 3.5 HDD	ST8000NM0055	1RM112-001	SN02	8TB	7,200	SATA	3.5”	512e
	Enterprise Capacity 3.5 HDD V6	ST10000NM0016	1TT101-002	SNC0	10TB	7,200	SATA	3.5”	512e
	Enterprise Capacity 3.5 HDD V7	ST12000NM0007	2A1101-001	SN01	12TB	7,200	SATA	3.5”	512e
	Enterprise cloud	MC04ACA400E	HDERR11GEA51	PF2A	4TB	7,200	SATA	3.5”	512e
	SKYHAWK Surveillance	ST6000VX0023 ST8000VE0004-2K111g	2EF110-300 ZA27P8H5	SC60 EV01	6TB 8TB	7,200 7,200	SATA SATA	3.5” 3.5”	512e 512e
	Exos X14 and Exos X14z	ST14000NM0018 ST12000NM0008	2H4101-002 2H3101-001	SN02 SN01	14TB 12TB	7,200 7,200	SATA SATA	3.5” 3.5”	512e 512e
	Exos X16	ST16000NM001G	ST16000NM001G	SN01	16TB	7,200	SATA	3.5”	512e
Toshiba	MG04ACA Series	MG04ACA600E MG04ACA500E MG04ACA400E MG04ACA300E MG04ACA200E	HDKEB03G0A01 HDEPR10GEA51 HDEPR11GEA51 HDEPR12GEA51 MG04ACA200E	FS3B FS4B	6TB 5TB 4TB 3TB 2TB	7,200 7,200 7,200 7,200 7,200	SATA 6Gb/s SATA 6Gb/s SATA 6Gb/s SATA 6Gb/s SATA 6Gb/s	3.5” 3.5” 3.5” 3.5” 3.5”	512e 512e 512e 512e 512e
	Enterprise Capacity HDD-MG07 Series	MG07ACA12TE	HDEPW11GEA51	101	12TB	7,200	SATA	3.5”	512e
		MG07ACA14TE	HDEPW10GEA51	101	14TB	7,200	SATA	3.5”	512e
	Enterprise Capacity HDD-MG08 Series	MG08ACA16TE	MG08ACA16TE	101	16TB	7,200	SATA	3.5”	512e
	Enterprise Capacity HDD-MG08-D Series	MG08ADA400E	MG08ADA400E	101	4TB	7,200	SATA	3.5”	512e
WD	WD Gold	WD6002FRYZ-01WD5B0	2W10001	1M02	6TB	7,200	SATA	3.5”	512e
	Ultrastar DC HC550	WUH721818ALE6L4	0F38459	W120	18TB	7,200	SATA	3.5”	512e
		WUH721816ALE6L4	WUH721816ALE6L4	W120	16TB	7,200	SATA	3.5”	512e
	Ultrastar DC HC530	WUH721414ALE6L4	0F31284	07A	14TB	7,200	SATA	3.5”	512e
	Ultrastar DC HC520	HUH721212ALE604	0F30146	07A	12TB	7,200	SATA	3.5”	512e
	Ultrastar DC HC310	HUS728T8TALE6L4	HUS728T8TALE6L4	W984	8TB	7,200	SATA	3.5”	512e
		HUS726T6TALE6L4	HUS726T6TALE6L4	W984	6TB	7,200	SATA	3.5”	512e
		HUS726T4TALE6L4	HUS726T4TALE6L4	W984	4TB	7,200	SATA	3.5”	512e
	NAS Red Pro	WD2002FFSX	WD2002FFSX	0A830A83	2TB	7,200	SATA	3.5”	512e

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		WD4003FFBX	WD4003FFBX	0A830A83	4TB	7,200	SATA	3.5”	512e
		WD6003FFBX	WD6003FFBX	0A830A83	6TB	7,200	SATA	3.5”	512e
		WD8003FFBX	WD8003FFBX	0A830A83	8TB	7,200	SATA	3.5”	512e
		WD101KFBX	WD101KFBX	0A830A83	10TB	7,200	SATA	3.5”	512e
		WD102KFBX	WD102KFBX	0A830A83	10TB	7,200	SATA	3.5”	512e
		WD121KFBX	WD121KFBX	0A830A83	12TB	7,200	SATA	3.5”	512e
		WD141KFGX	WD141KFGX	0A830A83	14TB	7,200	SATA	3.5”	512e
		WD161KFGX	WD161KFGX	0A830A83	16TB	7,200	SATA	3.5”	512e
		WD181KFGX	WD181KFGX	0A830A83	18TB	7,200	SATA	3.5”	512e

Note: **Drives with 4Kn formatting are not supported**

Solid State Drives

SAS SSD

The following drives have an SSD Trim Type of RZAT.

Vendor	Series	Model	Part Number	Interface	Capacity	Firmware	Form Factor	Type
Micron	S650DC	MTFDJAL3T2MBS	MTFDJAL3T2MBS-2AN1ZAB	12Gb/s SAS	3200GB	M017	2.5”	MLC
		MTFDJAL1T6MBS	MTFDJAL1T6MBS-2AN1ZAB	12Gb/s SAS	1600GB	M017	2.5”	MLC
		MTFDJAK800MBS	MTFDJAK800MBS-2AN1ZAB	12Gb/s SAS	800GB	M017	2.5”	MLC
		MTFDJAK400MBS	MTFDJAK400MBS-2AN1ZAB	12Gb/s SAS	400GB	M017	2.5”	MLC
	S630DC	MTFDJAL3T8MBT	MTFDJAL3T8MBT-2AN1ZAB	12Gb/s SAS	3840GB	M017	2.5”	MLC
		MTFDJAL3T2MBT	MTFDJAL3T2MBT-2AN1ZAB	12Gb/s SAS	3200GB	M017	2.5”	MLC
		MTFDJAL1T9MBT	MTFDJAL1T9MBT-2AN1ZAB	12Gb/s SAS	1920GB	M017	2.5”	MLC

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		MTFDJAL1T6MBT	MTFDJAL1T6MBT-2AN1ZAB	12Gb/s SAS	1600GB	M017	2.5”	MLC
		MTFDJAK960MBT	MTFDJAK960MBT-2AN1ZAB	12Gb/s SAS	960GB	M017	2.5”	MLC
		MTFDJAK800MBT	MTFDJAK800MBT-2AN1ZAB	12Gb/s SAS	800GB	M017	2.5”	MLC
		MTFDJAK480MBT	MTFDJAK480MBT-2AN1ZAB	12Gb/s SAS	480GB	M017	2.5”	MLC
		MTFDJAK400MBT	MTFDJAK400MBT-2AN1ZAB	12Gb/s SAS	400GB	M017	2.5”	MLC
	S610DC	MTFDJAL3T8MBU	MTFDJAL3T8MBU-2AN1ZAB	12Gb/s SAS	3840GB	M017	2.5”	MLC
		MTFDJAL1T9MBU	MTFDJAL1T9MBU-2AN1ZAB	12Gb/s SAS	1920GB	M017	2.5”	MLC
Samsung	**Enterprise SSD PM1643**	MZILT960HAHQ-00007	MZILT960HAHQ-00007	12Gb/s SAS	960GB	GXF2	2.5”	MLC
Toshiba	**Enterprise SSD PM5-R**	KPM51RUG480G	KPM51RUG480G	12Gb/s SAS	480GB	0107	2.5”	TLC
		KPM51RUG960G	SDFBE06GEA01		960GB	0107	2.5”	TLC
		KPM51RUG1T92	KPM51RUG1T92		1,920GB	0107	2.5”	TLC
		KPM51RUG3T84	KPM51RUG3T84		3,840GB	0107	2.5”	TLC
Seagate	**Nytro 3331 Series**	XS960SE70004	2LZ200-002	12Gb/s SAS	960GB	0002	2.5”	3D eTLC
HUAWEI	**ES3500S-V5**	HWE52SS33T8L002N	HWE52SS33T8L002N	12Gb/s SAS	3.84TB	2158	2.5”	3D TLC
	ES3600S-V5	HWE52SS31T6M002N	HWE52SS31T6M002N	12Gb/s SAS	1.6TB	2158	2.5”	3D TLC

SATA SSD

Vendor	Series	Model	Part Number	Interface	Capacity	Firmware	Form Factor	Type
Micron	**5100**	MTFDDAK240TCB	MTFDDAK240TCB-1AR1ZAB	6Gb/s SATA	240GB	MU021	2.5”	3D TLC
		MTFDDAK480TCB	MTFDDAK480TCB-1AR1ZAB	6Gb/s SATA	480GB	MU021	2.5”	3D TLC
		MTFDDAK960TCB	MTFDDAK960CB-1AR1ZAB	6Gb/s SATA	960GB	MU021	2.5”	3D TLC
		MTFDDAK1T9TCB	MTFDDAK1T9TCB-1AR1ZAB	6Gb/s SATA	1920GB	MU021	2.5”	3D TLC
		MTFDDAK3T8TCB	MTFDDAK3T8TCB-1AR1ZAB	6Gb/s SATA	3840GB	MU021	2.5”	3D TLC

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	5210	MTFDDAK1T9QDE	MTFDDAK1T9QDE	6Gb/s SATA	2TB	D2MU001	2.5”	QLC
	1100	MTFDDAK2T0TBN	MTFDDAK2T0TBN-1AR1ZABYY	6Gb/s SATA	2048GB	MOMU011	2.5”	3D TLC
	1300	MTFDDAK2T0TDL	MTFDDAK2T0TDL	6Gb/s SATA	2TB	M5MU000	2.5”	TLC
	M510DC	MTFDDAK960MBP	M1EDDAK960MBP-1AN1ZAB	6Gb/s SATA	960GB	0013	2.5	MLC
Crucial	**MX300**	CT1050MX300SSD1	CT1050MX300SSD1	6Gb/s SATA	1TB	M0CR060	2.5”	TLC
	MX200	CT1000MX200SSD1	CT1000MX200SSD1	6Gb/s SATA	1TB	MU05	2.5”	TLC
Toshiba	**HK4E**	THNSN8200PCSE	THNSN8200PCSE	6Gb/s SATA	200GB	6101	2.5”	MLC
	HK6R	KHK61RSE1T92	KHK61RSE1T92	6Gb/s SATA	2TB	1DET6101	2.5”	TLC
Samsung	**850 EVO**	MZ-75E250	MZ7LN250HMJP	6Gb/s SATA	249 GB	2B6Q	2.5”	V-nand
		SSD 850 PRO 1TB MZ-7KE1T0BW	SSD 850 PRO 1TB MZ-7KE1T0BW	6Gb/s SATA	1TB	EXM04B6Q	2.5”	V-NAND
	860 Pro	MZ-76P1T0	MZ-7KH1T0HAJR	6Gb/s SATA	1TB	1B6Q	2.5”	V-NAND
Seagate	**XF1230**	XF1230 -101920	2BY172-380	6Gb/s SATA	1920GB	354	2.5”	eMLC
innodisk	**3TG6-P**	DGS25-01TM71EC1QF-H04	DGS25-01TM71EC1QF-H04	6Gb/s SATA	1TB	0ZPY	2.5”	MLC
		DGS25-02TM71ECAQF-H04	DGS25-02TM71ECAQF-H04	6Gb/s SATA	2TB	0ZS6	2.5”	MLC

Operating Systems

Supported Operating Environments

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Vendor	Core Platform	Type	Notes
Microsoft	Windows Server 2008 R2 SP1	x64	ALUA support with PerfectPath v4.1.0.12
	Windows Server 2012 R2	x64	ALUA support with PerfectPath v4.1.0.12
	Hyper-V Windows Server 2012 R2	x64	ALUA support with PerfectPath v4.1.0.11
	Windows Server 2016	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2016
	OS X 10.10	x64	LUN Affinity/ALUA natively supported.
	OS X 10.11	x64	LUN Affinity/ALUA natively supported.
	OS X 10.12.4, 10.12.5, 10.12.6	x64	LUN Affinity/ALUA natively supported.
RedHat	RHEL 6.6.64(2.6.32-642)	X64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 6.7(2.6.32-573)	x64	ALUA support with Promise MPIO v0.0.0.12
	RHEL 6.8 (2.6.32-642)	x64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 7.0(3.10.0-123)	x64	ALUA support with Promise MPIO v0.0.0.13
	RHEL 7.2 (3.10.0-327)	x64	ALUA support with Promise MPIO v0.0.0.12
SUSE	SLES 11 sp4 (3.0.101.63.1)	x64	ALUA support with Promise MPIO v0.0.0.13
	SLES 12 sp1 (3.12.49-11)	x64	ALUA support with Promise MPIO v0.0.0.13
VMware	ESXi Server v6.0	x64	LUN Affinity/ALUA natively supported
	ESXI Server v6.5	x64	LUN Affinity/ALUA natively supported
Citrix	Citrix Hypervisor 8.2 LTSR	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 8.1	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 8.0	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 7.1 LTSR	X64	LUN Affinity/ALUA natively supported
	Citrix Hypervisor 7.0 LTSR	X64	LUN Affinity/ALUA natively supported

Fibre Channel Switches and SFPs

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Switches

Fibre Channel Switches			
Vendor	**Model**	**Ports**	**Firmware**
Brocade	Brocade 6505	24x16Gb	V7.4.1a
	Brocade 6510	40x16Gb	V7.4.1a
	Brocade G610	24x16/32Gb	V8.2.1b
Cisco	MDS 9148s (BIOS 2.1.17)	48x16Gb	V6.2(13b)
	MDS 9148 (BIOS 1.0.19)	48x8Gb	V6.2(13b)
QLogic	SANbox 5802V	20x8Gb	v8.0.14.13.00

SFP's

16G SFP Interoperability Matrix (Shortwave)		
Vendor	**Model**	**Description**
Avago	AFBR-57F5PZ	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 85°C
	AFBR-57F5MZ	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 85°C
Finisar	FTLF8529P3BCV	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25 GBd Low Voltage (3.3 V) - 70°C
Cisco	DS-SFP-FC16G-SW	Digital Diagnostic SFP, 850 nm, 14.025/8.5/4.25

8G SFP Interoperability Matrix (Shortwave)		
Vendor	**Model**	**Description**
Avago	AFBR-57D7APZ	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
Finisar	FTLF8528P2BCV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 70°C
	FTLF8528P2BNV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
	FTLF8528P3BCV	Digital Diagnostic SFP, 850 nm, Tri-Rate 2.125/4.25/8.5 Gb/s Fibre Channel (3.3 V), Extended Temperature, -5C to 70°C
	FTLF8528P3BNV	Digital Diagnostic SFP, 850 nm, Tri-Rate 2.125/4.25/8.5 Gb/s Fibre Channel (3.3 V), Commercial Temperature, -5C to 85°C

16 Gb Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	Firmware	Linux 6.7, 7.2	Sles 12 SP1/Sles11 SP4	Windows 2012 R2, 2008 R2	Mac

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Brocade	BR-1860	3.2.7.0	3.2.6.0	3.2.7.0	3.2.7.0	3.2.6.0	N/A
Emulex	LightPulse LPe16002B-M6	11.1.212.0	11.1.217.0	11.0.240.0	11.0.240.0	11.1.145.16	N/A
Qlogic	QLE2672-CK	3.32	8.03.01	8.07.00.27.0-K2	8.07.00.27.0-K2	9.2.1.20	N/A
	QLE2692	3.42	8.05.44	8.07.00.47.07.0-k	8.07.00.47.12.0-k	9.2.3.20	N/A
ATTO	Celerity FC162E (16G)	10.6.103.8	1/26/2016	N/A	1.51	1.30	2.0.0
Promise	SANLink2 – Thunderbolt to 16G FC	N/A	1.1.65.30	N/A	N/A	N/A	2.0.6
	SANLink3 – Thunderbolt to 16G FC	N/A	1.1.65.43	N/A	N/A	N/A	3.0.2

8 Gb Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	Firmware	Fcode	Linux 6.7, 7.2	Windows 2012 R2, 2008 R2	Mac
Brocade	FC425	v3.2.6.0	v3.2.6.0		3.2.6.0	v3.2.6.0	NA
	FC825	v3.2.6.0	v3.2.6.0		3.2.6.0	v3.2.6.0	NA
Emulex	LightPulse LPe12000	5.03a0	2.01A11	3.10a6		10.4.246.0	NA
	LightPulse LPe12002	5.03a0	2.01A11	3.10a6		11.0.247.0-5	NA
	LightPulse LPe12004	5.03a0	2.01A11	3.10a6		10.4.246.0	NA
	LightPulse LPe1250	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe11000	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe11002	2.12a12	2.82A3	3.10a6		10.0.720.0	NA
	LightPulse LPe11004	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
	LightPulse LPe1150	2.12a11	2.01A11	3.10a6		10.0.720.0	NA
Qlogic	SANblade QLE2562	3.29	802.00		8.07.00.18.06.0	9.1.17.21	NA
	SANblade QLE2564	3.29	802.00		8.07.00.18.06.0	9.1.17.21	NA
LSI	LSI7204EP	2.02.06	1.3.20.0	1.00.49		N/A	1.05.06.00
	LSI7404EP	2.02.06	1.3.20.0	1.00.49		N/A	1.05.06.00
ATTO	Celerity FC162E (16G)	02/28/13	06.01.00		1.40	1.30	1.40
	Celerity FC42ES	3.25	3.35			1.70	2.35
Promise	SANLink2		1.1.58.0				2.0.6

VMware Certified

Vendor	Version	Test Configuration	MPP Plugin	SATP Plugin	PSP Plugin	VMware Compatibility Guide
VMware	VMware ESXi 6.5.0	Fiber Channel	NMP	VMW_SATP_ALUA	VMW_PSP_FIXED	VTrak E5000 Series FC

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Veeam Certified

Vendor	Version	Test Configuration	Veeam Compatibility Guide
Veeam	Veeam Backup & Replication 9.5	Fiber Channel	VTrak E5000 Series Veeam Ready - Repository

Citrix Certified

Vendor	Version	Test Configuration	Citrix Compatibility Guide
Citrix	Citrix Hypervisor 8.2 LTSR	Fiber Channel	VTrak E5000 Series Citrix Ready - Repository

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Supported Promise attached Subsystems

The supported Expansion subsystems include:

Vendor	Platform	Description
Promise	VTrak J5320s	2U/24-bay JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA), 2.5" Drive Bays
	VTrak J5300s	2U/12 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5600s	3U/16 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5800s	4U/24 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5910s	4U/60 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)
	VTrak J5920s	4U/102 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA)

Vendor	Platform	Description
Promise	VTrak J630s	3U/16-bay JBOD, 6Gbs SAS to 6Gbs SAS/SATA
	VTrak J830s	4U/24-bay JBOD, 6Gbs SAS to 6Gbs SAS/SATA
	VTrak J930s	4U/60-bay JBOD, 6Gbs SAS to 6Gbs SAS

SAS Cables

Promise PN	Vendor	Vendor PN	Type	Description
G51130261000009	JPC	P3602U701000-2	DAC	External mini SAS to External mini SAS 8644 to 8644 12G 1M
G51130263000001	JPC	P3602U703000-1	DAC	External mini SAS to External mini SAS 8644 to 8644 12G 3M
G51130361000017	FCI	10117771-2010HLF	DAC	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.1M
G51130363000000	FCI	10117771-3030HLF	DAC	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.3M
N/A	AMPHENOL	601760008	DAC	Mini SAS HD To Mini SAS HD. 3M
N/A	MOLEX	1064152103	AOC	Mini SAS HD To Mini SAS HD. 3M
N/A	CENTERA	C04012MSBL005	AOC	48G Mini SAS HD AOC. 5M

Cables are tested for compatibility with Promise hardware only and are not tested to full electrical and mechanical specifications.

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