



Vess R3000/J3000 SR1.5.0 Compatibility List

Version 1.7

Firmware 13.04.0000.41 Release Date: 02/06/2022

VTrak R3000 Systems Covered:

- **Vess R3600i** - 3U/16-bay 4 ports iSCSI to SAS/SATA RAID System
- **Vess R3600xi** - 3U/16-bay 2 ports 10G SFP+ iSCSI/4 ports iSCSI to SAS/SATA RAID System
- **Vess R3600ti** - 3U/16-bay 2 ports 10G BASE-T iSCSI/4 ports iSCSI to SAS/SATA RAID System
- **Vess R3604fi** - 3U/16-bay 4 ports 16G Fibre/4 ports iSCSI to SAS/SATA RAID System
- **Vess R3800i** - 4U/24-bay 4 Port iSCSI to SAS/SATA RAID System
- **Vess R3800xi** - 4U/24-bay 2 Port 10G SFP+ / 4 Ports iSCSI to SAS/SATA RAID System
- **Vess R3800ti** - 4U/24-bay 2 Ports 10G BASE-T/ 4 Port iSCSI to SAS/SATA RAID System
- **Vess R3804fi** - 4U/24-bay 4 Ports 16G Fibre/ 4 Ports iSCSI to SAS/SATA RAID System
- **Vess R3800fi** - 4U/24-bay 2 Ports 16G Fibre/ 4 Ports iSCSI to SAS/SATA RAID System

VTrak J3000 Systems Covered:

- **Vess J3600s** - 3U/16-bay SAS to SAS/SATA JBOD System
- **Vess J3800s** - 4U/24-bay SAS to SAS/SATA JBOD System

System Versions Covered:

- **Vess R3000 Firmware** - Version 13.04.0000.41 [Jun. 02, 2022]
- **Vess R3000 Firmware** - Version 13.04.0000.29 [May. 17, 2021]
- **Vess R3000 Firmware** - Version 13.04.0000.24 [Oct. 20, 2020]
- **Vess R3000 Firmware** - Version 13.04.0000.13 [Jun. 30, 2020]
- **Vess R3000 Firmware** - Version 13.03.0000.07 [Sep. 06, 2019]
- **Vess J3000 Firmware** - Version 1.00.0000.21 [Aug. 29, 2019]
- **Vess J3000 Firmware** - Version 1.00.0000.21 [Aug. 29, 2019]

Document History

Date	Editor	Revision	Comments
06/08/2019	Kidd Hsieh	1.0	Initial list for Vess R3600/J3600 Compatibility
31/10/2019	KJ.Hsu	1.1	Add Seagate ST600MM009_FW-N001 Add Toshiba MG06ACA10TE_FW-0104 Add Toshiba MG06ACA800E_FW-0104 Add Toshiba MG04ACA600E_FW-FS3B Add Toshiba MG04ACA500E_FW-FS3B Add Toshiba MG04ACA400E_FW-FS3B Add Toshiba MG04ACA300E_FW-FS3B Add Toshiba MG04ACA200E_FW-FS3B Add Toshiba AL15SEB060N_FW-1401 Add Toshiba AL15SEB030N_FW-1401 Add Veeam Backup & Replication V9.5 update4 Add VMware Esxi 6.0,Esxi 6.5,Esxi 6.7 Add Cisco 9396px 10Gb SFP+ Switch Add HP JC102B 10Gb SFP+ Switch Add HP JG336A 10Gb Base-T Switch Add HP StorageWorks 8/24 8G Fiber Switch Add Brocade VDX 6740 10Gb SFP+ Switch Add Brocade VDX 6740 Flex Port Add VMware 6.5 certified. Add J3600 JOBID
31/10/2019	Kidd Hsieh	1.1	Add Qlogic 32G HBA Add Qlogic 32G GBIC
04/03/2020	KJ Hsu	1.2	Update "Vess R3000/J3600 SR1.0 Compatibility List" Update innodisk SSD type to "3D TLC" Added Toshiba SAS AL15SE Series as following: AL15SEB24EQ_FW-0102 AL15SEB18EQ_FW-0102 AL15SEB12EQ_FW-0102 AL15SEB09EQ_FW-0102 AL15SEB06EQ_FW-0102 AL15SEB24EQ_FW-1401 AL15SEB18EQ_FW-1401 AL15SEB12EQ_FW-1401 AL15SEB09EQ_FW-1401 AL15SEB06EQ_FW-1401 Added Toshiba SATA SSD KHK61RSE1T92_FW-6101 Added Micron SATA 1300 SSD as following: MTFDDAK256TDL-1AW1ZABYY MTFDDAK512TDL-1AW1ZABYY MTFDDAK1T0TDL-1AW1ZABYY MTFDDAK2T0TDL-1AW1ZABYY Added Micron SATA ALC 5210 SSD as following: MTFDDAK1T9QDE_FW-MU001 MTFDDAK3T8QDE_FW-MU001 Added Seagate EXOS 7E8 SAS as following: ST8000NM001A_FW-E001 ST6000NM0029A_FW-E001 ST4000NM005A_FW-E001 ST2000NM004A_FW-E001 ST4000NM003A_FW-N001 ST3000NM001A_FW-N001 ST2000NM003A_FW-N001

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			<p>ST1000NM001A_FW-N001</p> <p>Added Seagate NYTRO3331 SAS SSD as following: XS1920SE70004_FW-0003</p> <p>Added Toshiba MG08ACA16TE_FW-0101 Added Samsung SAS SSD MZILT1T9HAJQ-00007_FW-GXF0</p> <p>Added Seagate EXOS 10E2400 SAS as following: ST2400MM0129_FW-C004 ST1800MM0129_FW-C004 ST1200MM0129_FW-c004 ST600MM0099_FW-C004</p> <p>Add Seagate EXOS X16 series as following: ST14000NM001G_FW-SN01 ST12000NM001G_FW-SN01</p> <p>Added Veeam 9.5 certified Added Netgear XS512EM Added Netgear XS716T Added Netgear M4500-32C Added Brocade G610</p>
08/07/2020	KJ Hsu	1.3	<p>Add SAS MG08 series Toshiba MG08SCA16TE_FW-0101 Add SAS Exos x16 series Seagate ST14000NM002G_FW-E003 Add "STSB" field for STSB (Marvell SAS-SATA bridge board) on SATA drive The "*" will be added to SATA hard drive STSB field, which means that has been tested by Marvell bridge board</p> <p>Add Samsung SAS SSD MZILT1T9HAJQ-00007_FW-GXF4 Add Exos 7E8 series SATA HDD Seagate ST8000NM000A_FW-SN02 Add Intel D3-S4510 SSDSC2KB019T8_FW-XCV10110</p>
09/07/2020	KJ Hsu	1.3	<p>Add HGST HUS728T8TAL5204_FW-C460 Add FCI SAS cable</p>
04/11/2020	KJ Hsu	1.4	<p>Added Citrix Hypervisor 8.2 LTSR Certified.</p> <p>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</p>
31/12/2020	KJ Hsu	1.5	<p>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</p> <p>Added WD Ultrastar DC HC550 Series: WUH721818ALE6L4_FW-W120 WUH721816ALE6L4_FW-W120</p> <p>Added WD Ultrastar DC HC550 Series: WUH721818AL5204_FW-C120</p>

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			<p>WUH721816AL5204_FW-C120</p> <p>Added WD Ultrastar DC HC310 Series: HUS728T8TALE6L4_FW-W984 HUS726T6TALE6L4_FW-W984 HUS726T4TALE6L4_FW-W984</p> <p>Added WD Ultrastar DC HC510 Series: HUH721008AL5200_FW-A21D HUH721010AL5200_FW-A21D</p> <p>Added WD DC HC530 WUH721414AL5204_FW-07G Added Toshiba MG08-D Series MG08ADA400E_FW-0101</p>
19/08/2021	KJ Hsu	1.6	<p>Added WD SATA SSD RED SA500 NAS Series: WDS400T1R0A_FW-00WR WDS200T1R0A_FW-00WR WDS100T1R0A_FW-00WR WDS500G1R0A_FW-00WR</p> <p>Added TOSHIBA SAS HDD MG08-D Series: MG08SDA800E_FW-0101 MG08SDA600E_FW-0101 MG08SDA400E_FW-0101</p> <p>Updated TOSHIBA MG07SCA12TE_FW-0102</p> <p>Added TOSHIBA SATA HDD MG08-D Series: MG08ADA800E_FW-0101 MG08ADA600E_FW-0101 MG08ADA400E_FW-0101</p> <p>Added KIOXIA SAS SSD PM6-R Series: KPM61RUG1T92_FW-0103 KPM61RUG960G_FW-0103</p> <p>Added TOSHIBA SATA HDD MG09 Series MG09ACA18TE_FW-0103 MG09ACA16TE_FW-0103</p>
06/07/2022	KJ Hsu	1.7	<p>Added WD Ultrastar DC HC560 Series: SAS WUH722020BL5204_FW-C540 SATA WUH722020BLE6L4_FW-W540</p> <p>Added KIOXIA SAS SSD PM6-R Series: KPM61RUG3T84_FW-0107 KPM61RUG1T92_FW-0107 KPM61RUG960G_FW-0107 KPM61RUG3T84_FW-0106 KPM61RUG1T92_FW-0106 KPM61RUG960G_FW-0106</p> <p>Added WD Ultrastar DC HC310 HUS726T4TAL5204_FW-C40H</p> <p>Added Seagate Exos 7E10 Series: ST10000NM018B_FW-E001 ST8000NM018B_FW-E001 ST6000NM020B_FW-E001 ST4000NM025B_FW-E001 ST2000NM018B_FW-E001</p>

			<p>Add Toshiba MG08 Series: MG08SCA16TE_FW-0105 MG08SCA14TE_FW-0105</p> <p>Add Toshiba MG09 Series: MG09SCA18TE_FW-0105 MG09SCA16TE_FW-0105 MG09SCA14TE_FW-0105 MG09SCA12TE_FW-0105 MG09SCA10TE_FW-0105</p> <p>Added Seagate Exos X18 Series: ST18000NM004J_FW-E001 ST16000NM004J_FW-E001 ST14000NM004J_FW-E001 ST12000NM004J_FW-E001 ST10000NM013G_FW-E001</p> <p>Added Windows Server 2019,2022</p> <p>Added HGST HUH721008AL5204_FW-C38F</p>
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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 He8	HUH728080AL5200	HUH728080AL5200	907	8TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar He10	HUH721008AL5204	HUH721008AL5204	C38F	8TB	7,200	12Gb/s SAS	3.5"	512e
Seagate	Enterprise Capacity v4	ST6000NM0034	1HT27Z-001	E005	6TB	7,200	12Gb/s SAS	3.5"	512e
	Exos X14 and Exos X14z	ST14000NM0048	2H4201-002	E002	14TB	7,200	12Gb/s SAS	3.5"	512e
	Exos X16	ST14000NM002G	ST14000NM002G	E003	14TB	7,200	12Gb/s SAS	3.5"	512e
	Exos X18	ST18000NM004J	ST18000NM004J	E001	18TB	7,200	12Gb/s SAS	3.5"	512e
		ST16000NM004J	ST16000NM004J	E001	16TB	7,200	12Gb/s SAS	3.5"	512e
		ST14000NM004J	ST14000NM004J	E001	14TB	7,200	12Gb/s SAS	3.5"	512e
		ST12000NM004J	ST12000NM004J	E001	12TB	7,200	12Gb/s SAS	3.5"	512e
		ST10000NM013G	ST10000NM013G	E001	10TB	7,200	12Gb/s SAS	3.5"	512e
	Exos 10E2400	ST600MM0009	1XF200-001	N001	600GB	10K	12Gb/s SAS	3.5"	512e
		ST2400MM0129	ST2400MM0129	C004	2.4TB	10K	12Gb/s SAS	3.5"	512e
		ST1800MM0129	ST1800MM0129	C004	1.8TB	10K	12Gb/s SAS	3.5"	512e
		ST1200MM0129	ST1200MM0129	C004	1.2TB	10K	12Gb/s SAS	3.5"	512e
		ST600MM0099	ST600MM0099	C004	600GB	10K	12Gb/s SAS	3.5"	512e
	Exos 7E8	ST8000NM001A	ST8000NM001A	E001	8TB	7,200	12Gb/s SAS	3.5"	512e
		ST6000NM029A	ST6000NM029A	E001	6TB	7,200	12Gb/s SAS	3.5"	512e
		ST4000NM005A	ST4000NM005A	E001	4TB	7,200	12Gb/s SAS	3.5"	512e
		ST2000NM004A	ST2000NM004A	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	

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	Exos 7E10	ST1000NM018B	ST1000NM018B	E001	10TB	7,200	12Gb/s SAS	3.5"	512n
		ST8000NM018B	ST8000NM018B	E001	8TB	7,200	12Gb/s SAS	3.5"	512n
		ST6000NM020B	ST6000NM020B	E001	6TB	7,200	12Gb/s SAS	3.5"	512n
		ST4000NM025B	ST4000NM025B	E001	4TB	7,200	12Gb/s SAS	3.5"	512n
		ST2000NM018B	ST2000NM018B	E001	2TB	7,200	12Gb/s SAS	3.5"	512n
Toshiba	Enterprise Capacity (Tomcat-R)	MG04SCA60EE	HDEPF10GEA51	0104	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG04SCA40EE	HDEPF12GEA51	0104	4TB			3.5"	512e
	MG06SCA	MG06SCA10TE	HDEPK10GEA51	0102 0104	10TB	7,200	12Gb/s SAS	3.5"	512e
		MG06SCA800E	HDEPK11GEA51		8TB			3.5"	512e
		MG06SCA600E	HDEPK13GEA51		6TB			3.5"	512e
	MG07SCA	MG07SCA14TE	HDEPM10GEA51	0101 0102	14TB	7,200	12Gb/s SAS	3.5"	512e
		MG07SCA12TE	HDEPM11GEA51		12TB			3.5"	512e
	MG08SCA	MG08SCA16TE	MG08SCA16TE	0101 0105	16TB	7,200	12Gb/s SAS	3.5"	512e
		MG08SCA14TE	MG08SCA14TE	0101 0105	14TB	7,200	12Gb/s SAS	3.5"	512e
	MG09SCA	MG09SCA18TE	MG09SCA18TE	0105	18TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA16TE	MG09SCA16TE	0105	16TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA14TE	MG09SCA14TE	0105	14TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA12TE	MG09SCA12TE	0105	12TB	7,200	12Gb/s SAS	3.5"	512e
		MG09SCA10TE	MG09SCA10TE	0105	10TB	7,200	12Gb/s SAS	3.5"	512e
	AL14SXB	AL14SXB90EE	HDEAH10GEA51	0101	900GB	15K	12Gb/s SAS	3.5"	512e
		AL14SXB60EE	HDEAH11GEA51		600GB			2.5"	512e
	AL15SEB Series	AL15SEB060N AL15SEB030N	HDEBL04GBA51 HDEBF05GEA51	1401	600GB 300GB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB24EQ	AL15SEB24EQ	0102 1401	2.4TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB18EQ	AL15SEB18EQ	0102 1401	1.8TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB12EQ	AL15SEB12EQ	0102 1401	1.2TB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB09EQ	AL15SEB09EQ	0102 1401	900GB	10,500	12Gb/s SAS	2.5"	512e
		AL15SEB06EQ	AL15SEB06EQ	0102 1401	600GB	10,500	12Gb/s SAS	2.5"	512e

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	MG08-D Series	MG08SDA800E	HDEJN14GEA51	0101	8TB	7,200	12Gb/s SAS	3.5"	512e
		MG08SDA600E	HDEJN14GEA51	0101	6TB	7,200	12Gb/s SAS	3.5"	512e
		MG08SDA400E	HDEJN14GEA51	0101	4TB	7,200	12Gb/s SAS	3.5"	512e
WD	Ultrastar DC HC560	WUH722020BL5204	WUH722020BL5204	C540	20TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC550	WUH721818AL5204	WUH721818AL5204	C120	18TB	7,200	12Gb/s SAS	3.5"	512e
		WUH721816AL5204	WUH721816AL5204	C120	16TB	7,200	12Gb/s SAS	3.5"	512e
	Ultrastar DC HC530	WUH721414AL5204	0F31052	07G	14TB	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 HC320	HUS728T8TAL5204	HUS728T8TAL5204	C460	8TB	7,200	12Gb/s SAS	3.5"	512e
Ultrastar DC HC310	HUS726T4TAL5204	HUS726T4TAL5204	C40H	4TB	7,200	12Gb/s SAS	3.5"	512e	

Note: Drives with 4Kn formatting are not supported

SATA

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format	STSB
Seagate	Exos X14	ST14000NM0018	2H4101-002	SN02	14TB	7,200	SATA 6Gb/s	3.5"	512e	
	Exos X16	ST16000NM001G	2H4101-001	SN01	16TB	7,200	SATA 6Gb/s	3.5"	512e	
		ST14000NM001G	ST14000NM001G	SN01	14TB	7,200	SATA 6Gb/s	3.5"	512e	
		ST12000NM001G	ST12000NM001G	SN01	12TB	7,200	SATA 6Gb/s	3.5"	512e	
		ST8000NM000A	ST8000NM000A	SN02	8TB	7,200	SATA 6Gb/s	3.5"	512e	*
	Exos 7E8	ST6000NM021A	ST6000NM021A	SN02	6TB	7,200	SATA 6Gb/s	3.5"	512e	*
		ST4000NM002A	ST4000NM002A	SN02	4TB	7,200	SATA 6Gb/s	3.5"	512e	*
		ST2000NM001A	ST2000NM001A	SN02	2TB	7,200	SATA 6Gb/s	3.5"	512e	*
Enterprise Capacity HD		MG05ACA800E	HDEPT10GEA51	GX0A	8TB	7,200	SATA 6Gb/s	3.5"	512e	
Toshiba	Enterprise Capacity MG08ACA Series	MG08ACA16TE	MG08ACA16TE	0101	16TB	7,200	SATA 6Gb/s	3.5"	512e	*
	Enterprise Capacity	MG07ACA14TE	MG07ACA14TE	0101	14TB	7,200	SATA 6Gb/s	3.5"	512e	

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WD	MG07ACA Series	MG07ACA12TE	MG07ACA12TE	0101	12TB	7,200	SATA 6Gb/s	3.5"	512e	
	Enterprise Capacity MG06ACA Series	MG06ACA10TE MG06ACA800E	HDEPV10GEA51 HDEPS20A2A90	0104	10TB 8TB	7,200	SATA 6Gb/s	3.5"	512e	
	Enterprise Capacity MG04ACA Series	MG04ACA600E MG04ACA500E MG04ACA400E MG04ACA300E MG04ACA200E	HDKEB03G0A01 HDEPR10GEA51 HDEPR11GEA51 HDEPR12GEA51 MG04ACA200E	FS3B FS4B	6TB 5TB 4TB 3TB 2TB	7,200	SATA 6Gb/s	3.5"	512e	
	Enterprise Capacity HDD-MG08-D Series	MG08ADA800E	MG08ADA800E	101	8TB	7,200	SATA	3.5"	512e	*
		MG08ADA600E	MG08ADA600E	101	6TB	7,200	SATA	3.5"	512e	*
		MG08ADA400E	MG08ADA400E	101	4TB	7,200	SATA	3.5"	512e	*
	MG09 Series	MG09ACA18TE	HDEPZ10GEA51	103	18TB	7,200	SATA	3.5"	512e	*
		MG09ACA16TE	HDEPZ10GEA51	103	16TB	7,200	SATA	3.5"	512e	*
	Ultrastar DC HC560	WUH722020BLE6L4	WUH722020BLE6L4	W540	20TB	7,200	SATA	3.5"	512e	*
	Ultrastar DC HC550	WUH721818ALE6L4	0F38459	W120	18TB	7,200	SATA 6Gb/s	3.5"	512e	*
		WUH721816ALE6L4	WUH721816ALE6L4	W120	16TB	7,200	SATA 6Gb/s	3.5"	512e	
	Ultrastar DC HC310	HUS728T8TALE6L4	HUS728T8TALE6L4	W984	8TB	7,200	SATA 6Gb/s	3.5"	512e	
		HUS726T6TALE6L4	HUS726T6TALE6L4	W984	6TB	7,200	SATA 6Gb/s	3.5"	512e	*
		HUS726T4TALE6L4	HUS726T4TALE6L4	W984	4TB	7,200	SATA 6Gb/s	3.5"	512e	
	NAS Red Pro	WD2002FFSX	WD2002FFSX	0A830A83	2TB	7,200	SATA 6Gb/s	3.5"	512e	
		WD4003FFBX	WD4003FFBX	0A830A83	4TB	7,200	SATA 6Gb/s	3.5"	512e	
		WD6003FFBX	WD6003FFBX	0A830A83	6TB	7,200	SATA 6Gb/s	3.5"	512e	
		WD8003FFBX	WD8003FFBX	0A830A83	8TB	7,200	SATA 6Gb/s	3.5"	512e	
		WD101KFBX	WD101KFBX	0A830A83	10TB	7,200	SATA 6Gb/s	3.5"	512e	
		WD102KFBX	WD102KFBX	0A830A83	10TB	7,200	SATA 6Gb/s	3.5"	512e	
WD121KFBX		WD121KFBX	0A830A83	12TB	7,200	SATA 6Gb/s	3.5"	512e		
WD141KFGX		WD141KFGX	0A830A83	14TB	7,200	SATA 6Gb/s	3.5"	512e	*	
WD161KFGX		WD161KFGX	0A830A83	16TB	7,200	SATA 6Gb/s	3.5"	512e		
WD181KFGX		WD181KFGX	0A830A83	18TB	7,200	SATA 6Gb/s	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
KIOXIA	PM6-R Series	KPM61RUG3T84	SDFUS04GEA01T	SAS 24Gb/s	3.84TB	0106 0107	2.5"	TLC
		KPM61RUG1T92	SDFUS05GEA91T	SAS 24Gb/s	1.92TB	0103 0106 0107	2.5"	TLC
		KPM61RUG960G	SDFUS05GEA91T	SAS 24Gb/s	960GB	0103 0106 0107	2.5"	TLC
Samsung	Enterprise SSD PM1643	MZILT960HAHQ-00007	MZILT960HAHQ-00007	12Gb/s SAS	960GB	GXF2	2.5"	MLC
		MZILT1T9HAJQ-00007	MZILT1T9HAJQ-00007	12Gb/s SAS	1.92TB	GXF4	2.5"	V-NAND
Seagate	Nytro 3031	Nytro 3531 XS1600LE70024	2LZ222-002	12Gb/s SAS	1.6TB	0002	2.5"	MLC
	Nytro 3331	XS960SE70004	2LZ200-002	12Gb/s SAS	960GB	0002 0003	2.5"	3D eTLC
		XS1920SE70004	XS1920SE70004	12Gb/s SAS	1.92TB	0002 0003	2.5"	3D eTLC
Toshiba	Enterprise SSD PM5-R	KPM51RUG480G KPM51RUG960G KPM51RUG1T92 KPM51RUG3T84	KPM51RUG480G SDFBE06GEA01 KPM51RUG1T92 KPM51RUG3T84	12Gb/s SAS	480GB 960GB 1,920GB 3,840GB	0107	2.5"	TLC

SATA SSD

Vendor	Series	Model	Part Number	Interface	Capacity	Firmware	Form Factor	Type	STSB
Innodisk	Industrial	3TG6-P	DGS25-01TM71EC1QF	6Gb/s SATA	1TB	25 25	2.5"	3D TLC	*
		3TG6-P	DGS25-02TM71ECAQF	6Gb/s SATA	2TB	25 25	2.5"	3D TLC	*
Intel	D3-S4510	SSDSC2KB019T8	SSDSC2KB019T8	6Gb/s SATA	1.92TB	XCV10110	2.5"	3D TLC	*
Micron	1300 Series	MTFDDAK256TDL	MTFDDAK256TDL-1AW1ZABYY	6Gb/s SATA	256GB	M5MU000	2.5"	TLC	*
		MTFDDAK512TDL	MTFDDAK512TDL-1AW1ZABYY	6Gb/s SATA	512GB	M5MU000	2.5"	TLC	*
		MTFDDAK1T0TDL	MTFDDAK1T0TDL-1AW1ZABYY	6Gb/s SATA	1TB	M5MU000	2.5"	TLC	*
		MTFDDAK2T0TDL	MTFDDAK2T0TDL-1AW1ZABYY	6Gb/s SATA	2TB	M5MU000	2.5"	TLC	*
	5210 ION	MTFDDAK1T9QDE	MTFDDAK1T9QDE-2AV1ZABYY	6Gb/s SATA	1.92TB	D2MU001	2.5"	3D QLC	*
		MTFDDAK3T8QDE	MTFDDAK3T8QDE-2AV1ZABYY	6Gb/s SATA	3.84TB	D2MU001	2.5"	3D QLC	*
Toshiba	HK61	KHK61RSE1T92	KHK61RSE1T92	6Gb/s SATA	1920GB	6101	2.5"	3D TLC	
WD	RED SA500 NAS Series	WDS400T1R0A	WDS400T1R0A	SATA 6Gb/s	4TB	00WR	2.5"	TLC	*
		WDS200T1R0A	WDS200T1R0A	SATA 6Gb/s	2TB	00WR	2.5"	TLC	*
		WDS100T1R0A	WDS100T1R0A	SATA 6Gb/s	1TB	00WR	2.5"	TLC	*
		WDS500G1R0A	WDS500G1R0A	SATA 6Gb/s	500GB	00WR	2.5"	TLC	*

Operating Systems

Supported Operating Environments			
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
	Windows Server 2019 Standard	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2019
	Windows Server 2022 Standard	x64	ALUA support with native Microsoft Multipath I/O(MPIO) in Windows Server 2022
Mac	OS X 10.12.4, 10.12.5, 10.12.6	x64	LUN Affinity/ALUA natively supported.
Linux	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	VMware ESxi 6.0	x64	LUN Affinity/ALUA natively supported
	VMware ESXi 6.5	x64	LUN Affinity/ALUA natively supported
	VMware ESXi 6.7	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

Backup Applications

Supported Backup Applications		
Core Platform	Type	Notes
Veeam Backup & Replication V9.5 update4	x64	LUN Affinity/ALUA natively supported

VMware Certified

Vendor	Version	Test Configuration	MPP Plugin	SATP Plugin	PSP Plugin	VMware Compatibility Guide
VMware	VMware ESXi 6.5.0	SW iSCSI	NMP	VMW_SATP_ALUA	VMW_PSP_RR	VTrak R3000 Series iSCSI
		Fiber Channel	NMP	VMW_SATP_ALUA	VMW_PSP_RR	VTrak R3000 Series FC
		NAS(NFSv3)	N/A	N/A	N/A	VTrak R3000 Series NAS

Veeam Certified

Vendor	Version	Test Configuration	Veeam Compatibility Guide
Veeam	Veeam Backup & Replication 9.5	SW iSCSI Fiber Channel SMB	Vess R3000 Series Veeam Ready - Repository

Citrix Certified

Vendor	Version	Test Configuration	Citrix Compatibility Guide
Citrix	Citrix Hypervisor 8.2 LTSR	iSCSI Fiber Channel	Vess R3000 Series Citrix Ready - Repository

Fibre Channel and 10G Base-T/SFP+ Switches

100G QSFP28 Switches

10G SFP+ Switches			
Vendor	Model	Ports	Firmware
Netgear	NetGear M4500-32C	32*100GBase-X QSFP28	7.0.0.16

10G SFP+ Switches

10G SFP+ Switches			
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Vendor	Model	Ports	Firmware
Cisco	Cisco 9396PX	48*10Gb SFP+	BIOS Ver 07.41 NXOS Ver 7.0 (3) I2 (3)
HP	HP 5820X Series Switch JC102B	24*10Gb SFP+	
Brocade	Brocade VDX 6740	48*10Gb SFP+	

10G Base-T Switches

10G Base-T Switches			
Vendor	Model	Ports	Firmware
HP	HP 5900 Series Switch JG336A	48*10Gb Base-T	
Dell	Dell Power Connect 8024	24*10Gb Base-T	
Netgear	Netgear XS512EM	12*10Gb Base-T	1.0.1.1
	NetGear XS716T	16*10Gb Base-T	7.0.0.20

Fiber Channel Switches

Fibre Channel Switches			
Vendor	Model	Ports	Firmware
Brocade	Brocade 6505	24x16Gb	V7.4.1a
	Brocade 6510	40x16Gb	V7.4.1a
	Brocade VDX 6740	32*FlexPort (1-8,17-24,33-48)	NOS 5.0
	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
HP	HP StorageWorks 8/24 SAN Switch	24*8Gb	7.2.1d

GBIC

32G SFP Interoperability Matrix (Shortwave)		
Vendor	Model	Description
Qlogic	FTLF8532P4BCV-QL	Digital Diagnostic SFP, 850 nm → https://www.finisar.com/optical-transceivers/ftlf8532p4bcv

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
	AFBR-57F5MZ-ELX	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
	FTLF8528P2BCV	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

10G SFP Interoperability Matrix (Shortwave)		
Vendor	Model	Description
Finisar	FTLX8571D3BCV	Digital Diagnostic SFP, 850 nm
	FTLX8574D3BCV	Digital Diagnostic SFP, 850 nm
Cisco	SFP-10G-SR	Digital Diagnostic SFP, 850 nm

INTEL	E10GSFPSR	Digital Diagnostic SFP, 850 nm
Qlogic	FTLX8571D3BCL-QL	Digital Diagnostic SFP, 850 nm
AOPT	AOPT-SFP-NBT-RJ45	30m@10Gbps, 100m@100Mbps-5Gbps

32 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
Qlogic	QLE2742-SR						N/A

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
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

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	N/A
	FC825	v3.2.6.0	v3.2.6.0		3.2.6.0	v3.2.6.0	N/A
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	1.05.06.0 0
	LSI7404EP	2.02.06	1.3.20.0	1.00.49		N/A	1.05.06.0 0
ATTO	Celerity FC162E (16G)	02/28/13	06.01.00		1.40	1.30	1.40
ATTO	Celerity FC84EN	02/28/13	06.01.00		1.90	1.80	2.40
	Celerity FC82EN	02/28/13	06.01.00		1.90	1.90	2.40
	Celerity FC42ES	3.25	3.35			1.70	2.35

Supported Promise attached Subsystems

The supported Expansion subsystems include:

Vendor	Platform	Description
Promise	Vess J3600 JBOD	3U/16 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA), 2.5" Drive Bays
Promise	Vess J3800 JBOD	4U/24 JBOD, 12Gbs SAS to 12Gbs SAS (or 6Gbs SAS/SATA), 2.5" Drive Bays

SAS Cables

Promise PN	Vendor	Vendor PN	Description
G51130261000009	JPC	P3602U701000-2	External mini SAS to External mini SAS 8644 to 8644 12G 1M
G51130361000017	FCI	10117771-2010HLF	Mini SAS HD 4X 36P To Mini SAS 2.1 26P.1M
G51130261000012	FCI	10117949-2010LF	External min SAS to External min SAS 8644 to 8644 12G 1M

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

UPS

Vendor PN	Description
APC SMT1500TW 1500VA	UPS