Vess R3000/J3600 Series
FCS Compatibility List

Release Date: 08/06/2019 Version: 1.0

VTrak R3000 Systems Covered:

- **Vess R3600i** - 3U/16-bay iSCSI to SAS/SATA RAID System
- **Vess R3600xi** - 3U/16-bay 10G SFP+ iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R3600ti** - 3U/16-bay 10G BASE-T iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R3604fi** - 3U/16-bay 16G Fibre/iSCSI to SAS/SATA RAID System

VTrak J3000 Systems Covered:

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

System Versions Covered:

- **Vess R3000 Firmware** - Version 13.03.0000.06 [Aug. 06, 2019]
- **Vess J3000 Firmware** - Version 1.00.0000.21 [Aug. 06, 2019]

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Document History

Date	Editor	Revision	Comments
06/08/2019	Kidd Hsieh	1.00	Initial list for Vess R3600/J3600 Compatibility

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
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		12Gb/s SAS	3.5”	512e
Toshiba	Enterprise Capacity (Tomcat-R)	MG04SCA60EE	HDEPF10GEA51	0104	6TB	7,200	12Gb/s SAS	3.5”	512e
		MG04SCA40EE	HDEPF12GEA51		4TB			3.5”	512e
	MG06SCA	MG06SCA10TE	HDEPK10GEA51	0102	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	14TB	7,200	12Gb/s SAS	3.5”	512e
		MG07SCA12TE	HDEPM11GEA51		12TB			3.5”	512e
	AL14SXB	AL14SXB90EE	HDEAH10GEA51	0101	900GB	15,000	12Gb/s SAS	3.5”	512e
		AL14SXB60EE	HDEAH11GEA51		600GB			2.5”	512e

Note: Drives with 4Kn formatting are not supported

SATA

Vendor	Series	Model	Part Number	Firmware	Capacity	RPM	Interface	Form Factor	Format
Seagate	Exos X14	ST14000NM0018	2H4101-002	SN02	14TB	7,200	SATA	3.5”	512e
	Exos X16	ST16000NM001G	2H4101-001	SN01	16TB	7,200	SATA	3.5”	512e
Toshiba	Enterprise Capacity HD	MG05ACA800E	HDEPT10GEA51	GX0A	8TB	7,200	SATA 6Gb/s	3.5”	512e

Note: Drives with 4Kn formatting are not supported

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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
Seagate	Nytro 3031	Nytro 3531 XS1600LE70024	2LZ222-002	12Gb/s SAS	1.6TB	0002	2.5"	MLC
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
Innodisk	**Industrial**	3TG6-P	DGS25-01TM71EC1QF	6Gb/s SATA	1TB	25 25	2.5"	TLC
	Industrial	3TG6-P	DGS25-02TM71ECAQF	6Gb/s SATA	2TB	25 25	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
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

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Fibre Channel Switches and SFPs

Switches

Fibre Channel Switches			
Vendor	**Model**	**Ports**	**Firmware**
Brocade	Brocade 6505	24x16Gb	V7.4.1a
	Brocade 6510	40x16Gb	V7.4.1a
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
	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
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 to70°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

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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

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

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	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
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

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

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

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