VessR2000 / J2000 Series
SR2.5.4 Compatibility List

Date: August 17, 2016 Version: 1.0

Vess R2000 Series Systems Covered:

- **Vess R2600xiPRO** – 3U/16-bay 10G SFP+ iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R2600tiPRO** – 3U/16-bay 10G BASE-T iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R2600xi** – 3U/16-bay 10G SFP+ iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R2600ti** – 3U/16-bay 10G BASE-T iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R2600fi** – 3U/16-bay Fibre/iSCSI to SAS/SATA RAID System
- **Vess R2604fi** – 3U/16-bay Fibre/iSCSI to SAS/SATA RAID System
- **Vess R2608fi** – 3U/16-bay 16G Fibre/iSCSI to SAS/SATA RAID System
- **Vess R2600i** – 3U/16-bay iSCSI to SAS/SATA RAID System
- **Vess R2610i** – 3U/16-bay iSCSI to SAS/SATA RAID System
- **Vess R2612i** – 3U/16-bay iSCSI to SAS/SATA RAID System
- **Vess R2610fi** – 3U/16-bay Fibre/iSCSI to SAS/SATA RAID System
- **Vess R2610xi** – 3U/16-bay 10G SFP+ iSCSI/iSCSI to SAS/SATA RAID System
- **Vess R2810i** – 4U/24-bay iSCSI to SAS/SATA RAID System
- **Vess R2812i** – 4U/24-bay iSCSI to SAS/SATA RAID System
- **Vess R2810fi** – 4U/24-bay Fibre/iSCSI to SAS/SATA RAID System

Vess R2000 Series Systems Covered:

- **Vess J2600s** – 3U/16-bay SAS to SAS/SATA JBOD System
- **Vess J2610s** – 3U/16-bay SAS to SAS/SATA JBOD System
- **Vess J2810s** – 4U/24-bay SAS to SAS/SATA JBOD System

Systems Versions Covered:

- **BootLoader** – Version 1.00.0000.17
- **Firmware** – Version 1.05.0000.61
- **Software** – Version 1.05.0000.61

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd party device and Promise device has been verified in typical configurations, unless otherwise stated.
The EOL of 3rd party device may not be in the current list, user can refer older version of Promise compatibility list to get those test result.

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.
Some listed devices may go EOL. AVL listing does not imply market availability.

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Document History

Date	Release Label	Release Version	Notes
August 29, 2012	FCS	First release Qualified some devices: ● SAS Hard Drive: 5 models ● SATA Hard Drive: 9 models ● iSCSI HBA: 2 models ● NIC: 9 models ● Ethernet Switch: 6 models ● Fibre HBA: 7 models ● Fibre Switch: 4 models ● Fibre SFP+: 7 models ● SAS RAID Card: 4 models ● SAS HBA: 2 models ● OS: 11 sets ● Web browser: 8 new versions ● USB Flash Drive: 9 models ● UPS: 2 models ● Multi Path: 1 version ● JBOD: 1 model	VessR2000 series fibre and iSCSI Release
January 23, 2013	SR1	Based on FCS Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 20 models ● SATA Hard Drive:9models ● Solid State Drive: 1 model	
March 28, 2013	SR1.1	Based on SR1 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 1 model ● SATA Hard Drive: 1 model ● Add Citrix ready support ● Add Windows Hyper-V support ● Add VMware certified ● O.S.: 1 set	
June 6, 2013	SR1.2	Based on SR1.1 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 5 models ● SATA Hard Drive: 3models ● Add Windows Cluster Services support	
July 15, 2013	SR1.3	Based on SR1.2 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 4 models	Version 1.0
September 04, 2013	SR1.3	Based on SR1.3 Compatibility List version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 3 models	Version 2.0

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		● SATA Hard Drive:4models	
January 07, 2014	SR2.02	Based on SR1.3 Compatibility List version 2.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 4 models ● SATA Hard Drive: 2models ● iSCSI HBA: 2 models ● NIC: 3 models ● Ethernet Switch: 4 models ● O.S.: 2 sets ● Add NAS Citrix ready support	10G Base-T iSCSI release
February 17, 2014	SR2.1	Based on SR2.02 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 1 models ● SATA Hard Drive:1model ● O.S.: 1 set	NAS function release
July 2, 2014	SR2.2	Based on SR2.1 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 5 models ● Solid State Drive: 1model ● iSCSI HBA: 2 models ● NIC: 2 models ● Ethernet Switch: 1 models ● Ethernet SFP: 3 models ● O.S.: 4 sets ● Add VMware certified	10G SFP+ iSCSI release
July 18, 2014	SR2.2	Based on Vess R2000 SR2.2 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 9 models ● Solid State Drive: 9 models	Combine the Vess R2000 and Vess J2000 AVL
September 23, 2014	SR2.2	Based on Vess R2000 SR2.2 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 17 models ● SAS Hard Drive: 8 models ● Solid State Drive: 9 models ● Add VMware certified	Version 2.0
December 22, 2014	SR2.3	Based on Vess R2000 SR2.2 Compatibility List Version 2.0 with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 2 models ● SAS Hard Drive: 1 models ● Misc Thounderbolt Devices: 3 models	Vess R2610i/Vess R2612i/Vess J2610s release
March 26, 2015	SR2.4	Based on Vess R2000 SR2.3 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive: 9 models	Vess R2810i/Vess R2812i/Vess J2810s release

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May 20, 2015	SR2.4.1	Based on Vess R2000 SR2.4 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 9 models ● Solid State Drive: 4 models ● SPF+ Cooper Cable: 1 models	Vess R2600xiPRO/ Vess R2600tiPRO release
September 15, 2015	SR2.5.1	Based on Vess R2000 SR2.4.1 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 13 models ● SATA Hard Drive: 4 models ● O.S.: 2 sets	
October 16, 2015	SR2.5.1	Based on Vess R2000 SR2.5.1 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 3 models ● Ethernet SFP.: 2 sets	Version 2.0
February 17, 2016	SR2.5.2	Based on Vess R2000 SR2.5.1 Compatibility List Version 2.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 4 models ● SATA Hard Drive: 7 models ● Solid State Drive: 3 models ● NIC: 2 models	
April 26, 2016	SR2.5.3	Based on Vess R2000 SR2.5.2 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 15 models ● SATA Hard Drive: 1 model ● Solid State Drive: 3 models	
August 17, 2016	SR2.5.4	Based on Vess R2000 SR2.5.3 Compatibility List Version 1.0 with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 6 models ● SATA Hard Drive: 1 model ● Solid State Drive: 3 models ● Fibre HBA: 2 models ● Fibre Switch: 1 model ● Fibre SFP+: 4 models	Vess R2608fi release

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1. SATA Hard Drives

Vendor	Family	Model	Capacity	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
HGST	Ultrastar He8	HUH728080ALE600	8TB	514(1)	128MB	6Gb/s	3.5”	7200
		HUH728060ALE600	6TB	514(1)	128MB	6Gb/s	3.5”	7200
	Ultrastar He6	HUS726060ALA640	6TB	AHGNT1EN	64MB	6Gb/s	3.5"	7200
	MagaScale DC 4000.B	HMS5C4040BLE640	4TB	MPAOA5D0	64MB	6Gb/s	3.5"	5700
	MegaScale 4000	HMS5C4040ALE640	4TB	MPAOA3W0	64MB	6Gb/s	3.5"	5700
	Ultrastar 7K6000	HUS726060ALE610	6TB	517(1) 7J0(2)	128MB	6Gb/s	3.5”	7200
		HUS726050ALE610	5TB	517(1) 7J0(2)	128MB	6Gb/s	3.5”	7200
		HUS726040ALE610	4TB	517(1) 7J0(2)	128MB	6Gb/s	3.5”	7200
		HUS726020ALE610	2TB	517(1) 7J0(2)	128MB	6Gb/s	3.5”	7200
	Ultrastar 7K4000	HUS724040ALA640	4TB	MFAOA8B0 MFAOAA70	64MB	6Gb/s	3.5"	7200
		HUS724030ALA640	3TB	MFAOA8B0 MFAOAA70	64MB	6Gb/s	3.5"	7200
		HUS724020ALA640	2TB	MFAOA8B0 MFAOAA70	64MB	6Gb/s	3.5"	7200
		HUS724040ALE640	4TB	MJAOA3B0	64MB	6Gb/s	3.5"	7200
		HUS724030ALE640	3TB	MJAOA3B0	64MB	6Gb/s	3.5"	7200
		HUS724020ALE640	2TB	MJAOA3B0	64MB	6Gb/s	3.5"	7200
	Ultrastar 7K3000	HUA723030ALA640	3TB	MKAOA580 MKAOAA10	64MB	6Gb/s	3.5"	7200
		HUA723020ALA640	2TB	MK7OA5C0	64MB	6Gb/s	3.5"	7200
	Ultrastar A7K2000	HUA722010CLA330	1TB	JP4OA3EA	32MB	3Gb/s	3.5"	7200
SEAGATE	Enterprise Capacity 3.5 HDD	ST6000NM0024	6TB	SN02(2)	128MB	6Gb/s	3.5”	7200
		ST4000NM0024	4TB	SN02(2)	128MB	6Gb/s	3.5”	7200
		ST2000NM0024	2TB	SN02(2)	128MB	6Gb/s	3.5”	7200
	Terascale	ST4000NC001	4TB	CN02	64MB	6Gb/s	3.5"	5900
	Constellation ES.3	ST5000NM0024	5TB	SN01	128MB	6Gb/s	3.5"	7200
		ST4000NM0033	4TB	0001 SN04(2)	128MB	6Gb/s	3.5"	7200
		ST3000NM0033	3TB	0001 SN04(2)	128MB	6Gb/s	3.5"	7200
		ST2000NM0033	2TB	0001 SN04(2)	128MB	6Gb/s	3.5"	7200
		ST1000NM0033	1TB	0001 SN04(2)	128MB	6Gb/s	3.5"	7200

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	Constellation ES.2	ST33000650NS	3TB	0001	64MB	6Gb/s	3.5"	7200
	Constellation ES	ST2000NM0011	2TB	SN02	64MB	6Gb/s	3.5"	7200
	Constellation CS	ST3000NC002	3TB	CN01	64MB	6Gb/s	3.5"	7200
		ST2000NC001	2TB	CN01	64MB	6Gb/s	3.5"	7200
		ST1000NC001	1TB	CN01	64MB	6Gb/s	3.5"	7200
		ST3000NC000	3TB	CE02	64MB	6Gb/s	3.5"	7200
		ST2000NC000	2TB	CE02	64MB	6Gb/s	3.5"	7200
		ST1000NC000	1TB	CE02	64MB	6Gb/s	3.5"	7200
	Surveillance HDD	ST6000VX0001	6TB	VN01[1]	128MB	6Gb/s	3.5"	5900
		ST5000VX0001	5TB	VN01[1]	128MB	6Gb/s	3.5"	5900
		ST4000VX000	4TB	CV12	64MB	6Gb/s	3.5"	5900
				CV13	64MB	6Gb/s	3.5"	5900
		ST3000VX002	3TB	CV12	64MB	6Gb/s	3.5"	5900
				CV13	64MB	6Gb/s	3.5"	5900
Toshiba	MKx002TSKB	MK2002TSKB	2TB	MT2A	64MB	6Gb/s	3.5"	7200
	Capacity HDD-MG04	MG04ACA600E	6TB	FS2B[2]	128MB	6Gb/s	3.5"	7200
				FS3B[2]				
		MG04ACA500E	5TB	FP3B[2]	128MB	6Gb/s	3.5"	7200
		MG04ACA400E	4TB	FP3B[2]	128MB	6Gb/s	3.5"	7200
		MG04ACA300E	3TB	FP3B[2]	128MB	6Gb/s	3.5"	7200
		MG04ACA200E	2TB	FP3B[2]	128MB	6Gb/s	3.5"	7200
	Enterprise Cloud HDD	MC04ACA500E	5TB	FP1A	128MB	6Gb/s	3.5"	7200
				FP2A				
		MC04ACA400E	4TB	FP1A	128MB	6Gb/s	3.5"	7200
				FP2A				
		MC04ACA300E	3TB	FP1A	128MB	6Gb/s	3.5"	7200
				FP2A				
		MC04ACA200E	2TB	FP1A	128MB	6Gb/s	3.5"	7200
				FP2A				
WDC	WD RE4	WD2003FYYS	2TB	01.01D02	64MB	6Gb/s	3.5"	7200
		WD1003FBYX	1TB	01.01V02	64MB	3Gb/s	3.5"	7200
	WD RE	WD2000FYYZ	2TB	01.01K01	64MB	6Gb/s	3.5"	7200
				01.01K02				
		WD4000FYYZ	4TB	01.01K01	64MB	6Gb/s	3.5"	7200
		WD3000FYYZ	3TB	01.01K01	64MB	6Gb/s	3.5"	7200
	WD Red Pro	WD4001FFSX	4TB	81.00A81	64MB	6Gb/s	3.5"	7200
		WD3001FFSX	3TB	81.00A81	64MB	6Gb/s	3.5"	7200
		WD2001FFSX	2TB	81.00A81	64MB	6Gb/s	3.5"	7200

[1]This model supports Vess R2000 series and Vess R2610 series.

[2]This model supports Vess R2000 series, Vess R2610 series and Vess R2810 series.

[3]This model supports Vess R2610 series.

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- In a RAID array setup, we recommend using the enterprise level hard drive as it has much better command timeout control and features stable reliability to vibration compared to desktop one for critical applications.
- Some listed devices may go EOL. AVL listing does not imply market availability.
- **BLUE Models are new additions actual in test to this release.**
- **ORANGE Capacities are assumed to work but were not tested.**
- Additional AA-Mux adapter is required when use with SATA 3Gb drive, while SATA 6Gb drive requires BlackJack adapter.
- Verified all listed SATA drives with 3Gb AA-Mux adapter and 6G Blackjack adapter.
- When you use SATA6Gb/s drive with 3Gb AA-Mux adapter in the disk array system, the drive runs at 3Gb/s speed.

2. SAS Hard Drives

Vendor	Family	Model	Capacity	Firmware	Buffer	Drive Transfer Rate	Form Factor	RPM
HGST	Ultrastar He10	HUH721010AL5200	10TB	A21D(2)	256MB	12GB/s	3.5"	7200
		HUH721008AL5200	8TB	A21D(2)	256MB	12GB/s	3.5"	7200
	Ultrastar He8	HUH728080AL5200	8TB	A515 A907(2)	128MB	12Gb/s	3.5"	7200
		HUH728060AL5200	6TB	A515 A907(2)	128MB	12Gb/s	3.5"	7200
	Ultrastar He6	HUS726060ALS640	6TB	A280	64MB	6Gb/s	3.5"	7200
	Ultrastar 7K6000	HUS726060AL5210	6TB	A519(2) A7J0(2)	128MB	12Gb/s	3.5"	7200
		HUS726050AL5210	5TB	A519(2) A7J0(2)	128MB	12Gb/s	3.5"	7200
		HUS726040AL5210	4TB	A519(2) A7J0(2)	128MB	12Gb/s	3.5"	7200
		HUS726020AL5210	2TB	A519(2) A7J0(2)	128MB	12Gb/s	3.5"	7200
	Ultrastar 7K4000	HUS724040ALS640	4TB	A1C4 A280	64MB	6Gb/s	3.5"	7200
		HUS724030ALS640	3TB	A1C4 A280	64MB	6Gb/s	3.5"	7200
		HUS724020ALS640	2TB	A1C4 A280	64MB	6Gb/s	3.5"	7200
	Ultrastar 7K3000	HUS723030ALS640	3TB	A222 A440	64MB	6Gb/s	3.5"	7200
		HUS723020ALS640	2TB	A222 A440	64MB	6Gb/s	3.5"	7200
	Ultrastar 15K600	HUS156060VLS600	600GB	A5D0	64MB	6Gb/s	3.5"	15000
		HUS156045VLS600	450GB	A392	64MB	6Gb/s	3.5"	15000
	Ultrastar C10K900	HUC109090CSS600	900GB	A2D0	64MB	6Gb/s	2.5"	10000
		HUC109060CSS600	600GB	A2D0	64MB	6Gb/s	2.5"	10000
		HUC109045CSS600	450GB	A2D0	64MB	6Gb/s	2.5"	10000
		HUC109030CSS600	300GB	A2D0	64MB	6Gb/s	2.5"	10000
	Ultrastar C10K1200	HUC101212CSS600	1.2TB	A35A A469 (1)	64MB	6Gb/s	2.5"	10000
	Ultrastar C7K1000	HUC721010ASS600	1TB	A610	64MB	6Gb/s	2.5"	7200
	Ultrastar C15K600	HUC156060CSS200	600GB	A210	128MB	12Gb/s	2.5"	15000
		HUC156045CSS200	450GB	A210	128MB	12Gb/s	2.5"	15000

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		HUC156030CSS200	300GB	A210	128MB	12Gb/s	2.5"	15000
SEAGATE	Enterprise Performance 10K	ST1200MM0088	1.2TB	N003(2)	128MB	12Gb/s	2.5"	10000
		ST600MM0088	600GB	N003(2)	128MB	12Gb/s	2.5"	10000
	Enterprise Capacity 3.5	ST6000NM0034	6TB	E001(2) E005(2)	128MB	12Gb/s	3.5"	7200
		ST4000NM0034	4TB	E001(2) E005(2)	128MB	12Gb/s	3.5"	7200
		ST2000NM0034	2TB	E001(2) E005(2)	128MB	12Gb/s	3.5"	7200
	Constellation ES.2	ST33000650SS	3TB	0002 A003 0004	64MB	6Gb/s	3.5"	7200
		ST32000645SS	2TB	0004	64MB	6Gb/s	3.5"	7200
	Constellation ES	ST2000NM0001	2TB	0001	64MB	6Gb/s	3.5"	7200
	Constellation ES.3	ST4000NM0023	4TB	0001 0004(2) 0006(2)	128MB	6Gb/s	3.5"	7200
		ST3000NM0023	3TB	0001 0004(2) 0006(2)	128MB	6Gb/s	3.5"	7200
		ST2000NM0023	2TB	0001 0004(2) 0006(2)	128MB	6Gb/s	3.5"	7200
		ST1000NM0023	1TB	0001 0004(2) 0006(2)	128MB	6Gb/s	3.5"	7200
	Cheetah 15K.7	ST3600057SS	600GB	000B 0005	64MB	6Gb/s	3.5"	15000
		ST3300657SS	300GB	0006	64MB	6Gb/s	3.5"	15000
	Savvio 10K.7	ST1200MM0007	1.2TB	0001	64MB	6Gb/s	2.5"	10000
	Savvio 10K.6	ST600MM0006	600GB	0004(2)	64MB	6Gb/s	2.5"	10000
		ST450MM0006	450GB	0004(2)	64MB	6Gb/s	2.5"	10000
		ST300MM0006	300GB	0004(2)	64MB	6Gb/s	2.5"	10000
TOSHIBA	HARRIER	MG03SCA300	3TB	1001	64MB	6Gb/s	3.5"	7200
	TOMCAT-R	MG04SCA60EE	6TB	0101(2) 0103(2)	128MB	12Gb/s	3.5	7200
		MG04SCA50EE	5TB	0101(2) 0103(2)	128MB	12Gb/s	3.5	7200
		MG04SCA40EE	4TB	0101(2) 0103(2)	128MB	12Gb/s	3.5	7200
		MG04SCA20EE	2TB	0101(2) 0103(2)	128MB	12Gb/s	3.5	7200
	TOMCAT	MG04SCA500E	5TB	0102 0103(2)	64MB	6Gb/s	3.5"	7200
		MG04SCA400E	4TB	0102 0103(2)	64MB	6Gb/s	3.5"	7200
		MG04SCA300E	3TB	0102 0103(2)	64MB	6Gb/s	3.5"	7200

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		MG04SCA200E	2TB	0102 0103[2]	64MB	6Gb/s	3.5"	7200
	MKx001TRKB	MK1001TRKB	1TB	1001	16MB	6Gb/s	3.5"	7200
	AL13SE	AL13SEB900	900GB	0101	64MB	6Gb/s	2.5"	10500
		AL13SEB600	600GB	0101	64MB	6Gb/s	2.5"	10500
		AL13SEB450	450GB	0101	64MB	6Gb/s	2.5"	10500
		AL13SEB300	300GB	0101	64MB	6Gb/s	2.5"	10500
	AL14SE	AL14SEB120N	1.2TB	0102[2]	128MB	12Gb/s	2.5"	10000
		AL14SEB090N	900GB	0102[2]	1287MB	12Gb/s	2.5"	10000
		AL14SEB060N	600GB	0102[2]	128MB	12Gb/s	2.5"	10000
		AL14SEB045N	450GB	0102[2]	128MB	12Gb/s	2.5"	10000
		AL14SEB030N	300GB	0102[2]	128MB	12Gb/s	2.5"	10000
WDC	WD RE	WD4001FYYG	4TB	VR02 VR07	32MB	6Gb/s	3.5"	7200
		WD3001FYYG	3TB	VR02	32MB	6Gb/s	3.5"	7200
		WD2001FYYG	2TB	VR02	32MB	6Gb/s	3.5"	7200
		WD1001FYYG	1TB	VR02	32MB	6Gb/s	3.5"	7200
	WD XE	WD9001BKHG	900GB	SR04	32MB	6Gb/s	2.5"	10000

[1]This model supports Vess R2000 series and Vess R2610 series.
[2]This model supports Vess R2000 series, Vess R2610 series and Vess R2810 series.

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3. SSD Drives

Vendor	Family	Model	Capacity	Firmware	Type	Drive Transfer Rate	Form Factor
Intel	SSD 520 series	520 – 240GB	240GB	400i	MLC	SATA 6Gb/s	2.5"
	DC S3500 series	SSDSC2BB800G4	800GB[1]	D2010370	MLC	SATA 6Gb/s	2.5"
		SSDSC2BB600G4	600GB[1]	D2010370	MLC	SATA 6Gb/s	2.5"
		SSDSC2BB480G4	480GB	D2010355	MLC	SATA 6Gb/s	2.5"
	DC S3510 series	SSDSC2BB240G6	240GB[2]	G2010140	MLC	SATA 6Gb/s	2.5"
		SSDSC2BB120G6	120GB[2]	G2010140	MLC	SATA 6Gb/s	2.5"
		SSDSC2BB080G6	80GB[2]	G2010140	MLC	SATA 6Gb/s	2.5"
	DCS3700 series	SSDSC2BA800G3	800GB	5DV10270	MLC	SATA 6Gb/s	2.5"
		SSDSC2BA400G3	400GB	5DV10270	MLC	SATA 6Gb/s	2.5"

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		SSDSC2BA200G3	200GB	5DV10270	MLC	SATA 6Gb/s	2.5"
		SSDSC2BA100G3	100GB	5DV10270	MLC	SATA 6Gb/s	2.5"
Samsung	Consumer SSD	850 EVO	500GB[2]	EMT01B6Q	MLC	SATA 6Gb/s	2.5"
		850 EVO	250GB[2]	EMT01B6Q	MLC	SATA 6Gb/s	2.5"
		850 EVO	120GB[2]	EMT01B6Q	MLC	SATA 6Gb/s	2.5"
		840 EVO	1TB	EXT0BB0Q	MLC	SATA 6Gb/s	2.5"
		840 EVO	750GB	EXT0BB0Q	MLC	SATA 6Gb/s	2.5"
		840 EVO	500GB	EXT0BB0Q	MLC	SATA 6Gb/s	2.5"
		840 EVO	250GB	EXT0BB0Q	MLC	SATA 6Gb/s	2.5"
		840 EVO	120GB	EXT0BB0Q	MLC	SATA 6Gb/s	2.5"
SanDisk	Optimus Ascend	SDLKODDM-400G-5CA1	400GB[2]	F670	MLC	SAS 6Gb/s	2.5"
		SDLKOEDM-200G-5CA1	200GB[2]	F670	MLC	SAS 6Gb/s	2.5"

[1]**This model supports Vess R2000 series and Vess R2610 series.**

[2]**This model supports Vess R2000 series, Vess R2610 series and Vess R2810 series.**

- In a RAID array setup, we recommend using the enterprise level hard drive as it has much better command timeout control and features stable reliability to vibration compared to desktop one for critical applications.
- Some listed devices may go EOL. AVL listing does not imply market availability.
- **BLUE Models are new additions actual in test to this release.**
- **ORANGE Capacities are assumed to work but were not tested.**
- Additional AA-Mux adapter is required when use with SATA 3Gb drive, while SATA 6Gb drive requires BlackJack adapter.
- Verified all listed SATA drives with 3Gb AA-Mux adapter and 6G Blackjack adapter.
- When you use SATA6Gb/s drive with 3Gb AA-Mux adapter in the disk array system, the drive runs at 3Gb/s speed.

4. iSCSI Host Bus Adapters

Vendor	Model	BIOS / FW	Win / Linux Drv. Ver.	Interface	Port	TCP/IP Offload	ISCSI Offload	iSCSI Initiator Type	Data Rate
QLogic	QLE4060C	BIOS: 2.09 FW: 3.00.01.53	2.1.4.26/ 5.02.15.05. 05.06-C0	PCIe	1	yes	yes	HW	1Gb/s
	QLE4062C	BIOS: 2.09 FW: 3.00.01.53	2.1.4.26/ 5.02.15.05. 05.06-C0	PCIe	2	yes	yes	HW	1Gb/s
	QLE8242-SR	3.06	5.2.2.412	PCIe	2	yes	yes	HW	10Gb/s
Broadcom	NetXtreme II 57810S	7.4.8	7.6.51.0	PCIe	2	yes	yes	HW	10Gb/s
Emulex	OCe11102-IT	4.4.249.3	4.6.203.1	PCIe	2	yes	yes	HW	10Gb/s

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	OCe14102-NX	10.0.803.23	10.0.718.26 /10.0.800.0	PCIe	2	yes	yes	HW	10Gb/s

5. NIC Initiators List

Vendor	HBA Model	Controller Model	Win / Linux / Mac Drv. Ver.	Interface	Port	Data Rate
Broadcom	BCM95708A0804F	Broadcom BCM5708C	12.54.06 / 6.0.53	PCIe 4x	1	1Gb/s
	BCM95721A211	Broadcom BCM5721	15.2.0.5 / 3.108	PCIe 1x	1	1Gb/s
	Broadcom BCM5709CC0KPBG	BCM5709C	14.2.0.A00/6.0.53	PCIE 4x	2	1Gb/s
Intel	PRO/1000PT Dual Port Server Adapter (D33682)	Intel 82571GB	9.15.17.0 / 3.4.7	PCIe 2x	2	1Gb/s
	PRO/1000 PT Quad Port Server Adapter (EXPI9404PTBLK)	Intel 82571GB	9.15.17.0 / 2.0.0.1	PCIe 4x	4	1Gb/s
	Gigabit ET Dual Port Server Adapter(E1G42ET)	Intel 82576	11.17.27.0 / 3.4.8	PCIe 1x	2	1Gb/s
	Ethernet Server Adapter I340 – T4(E85683-001)	Intel 82580	11.14.49.0/ 3.4.8	PCIe 4x	4	1Gb/s
	Intel® Gigabit ET2 Quad Port Server Adapter	E1G44ETBLK	11.17.27.0/ 3.4.8	PCIe 4x	4	1Gb/s
	Intel®Ethernet Server Adapter I350 T4	Intel I350	11.17.27.0/ 3.4.8	PCIe4x	4	1Gb/s
	Intel® Ethernet Converged Network Adapter X540-T2	Intel X540	3.7.5.0	PCIe8x	2	10Gb/s
	Intel® Ethernet Converged Network Adapter X520-T2	Intel 82599ES	3.7.5.0	PCIe8x	2	10Gb/s
	Intel® Ethernet Converged Network Adapter X520-SR2	Intel® 82599ES 10 Gigabit Ethernet Controller	3.5.22.0/ 3.12.6	PCIe8x	2	10Gb/s
Emulex	OCe11102-NT	BladeEngine® 3	10.0.4030.57	PCIe8x	2	10Gb/s
HP	530 SFP+	Broadcom BCM57810S	7.10.6.0/7.10.12	PCIe8x	2	10Gb/s
ATTO	FastFrame™ NT12 RJ45	Intel X540 10GBASE-T Ethernet Controller	3.9.58/4.1.5/3.05	PCIe 2.0 8x	2	10Gb/s
	FastFrame™ NS12 LC SFP+ SR Optical Interface	Intel Ethernet Controller #82599	3.9.58/4.1.5/3.05	PCIe 2.0 8x	2	10Gb/s

6. Ethernet Switches

Vendor	Model	Ports	Speed (Mbs)	User Configuration
Cisco	WS-C3560-24T-L	24	10/100/1000	Yes
D-Link	DGS-1024D	24	10/100/1000	Yes
	DGS-1248T	48	10/100/1000	Yes
	DGS-1224T	24	10/100/1000	Yes

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	DGS-3620-28TC(EI)	28	10/100/1000	Yes
HP	ProCurve Switch 1800-24G	24	10/100/1000	Yes
	5820-24XG-SFP+	24	100/1000/10000	Yes
Dell	PowerConnect 8024	24	100/1000/10000	Yes
Extreme	Summit X650-24t	24	100/1000/10000	Yes
NETGEAR	PROSAFE X712T	12	100/1000/10000	Yes
Cisco	Catalyst 3560X-24T-L	24	100/1000/10000	Yes

7. Ethernet SFPs

Vendor	Model	Type
Finisar	FTLX8571D3BCV	10Gb Multi-mode
Avago	AFBR-709DMZ	10Gb Multi-mode
Intel	FTLX8571D3BCV-IT	10Gb Multi-mode
JDSU	PLRXPL-SC-S43-22-N(1)	10Gb Multi-mode
FCi	TRX10GVP2010C2(1)	10Gb Multi-mode

(1)**This model only supports 10Gb link speed.**

8. SFPs Cooper Cable

Vendor	Model	Type
ENET	ENSFC2-1M	10GBase-CU SFP+ Passive Twinax cable

9. Fibre Channel Host Bus Adapters

Vendor	Model	BIOS	FW	Windows Driver	Linux Driver
ATTO	FC-82EN	3.24	2010_7_30	1.36.2.0	1.34
Brocade	815Fibre	2.3.0.0	FCHBA3.1.0.0	3.1.0.0	3.1.0.0
	825Fibre	3.1.0.0	FCHBA3.1.0.0	3.1.0.0	3.1.0.0
Emulex	LPe11000	NA	Zd2.82A4	7.2.40.5	0:8.3.5.17
	LPe12002	NA	VS1.11A5	7.2.4.05	0:8.2.0.86
	LPe16002B	11.0.243.7	11.0.243.11	11.0.247.0-10	NA(1)
Qlogic	QLE2560	3.00	5.06.04	9.1.9.47	8.03.07.13.06.0-k
	QLE2562	3.00	5.06.04	9.1.9.47	8.03.07.13.06.0-k
	QLE2672	3.32	8.03.01	9.1.17.21	NA(1)

(1)**This model only qualified in windows server O.S.**

10.Fibre Channel Switches

Vendor	Model	Ports	Firmware
Brocade	BR-320-0008	8x8Gb	v6.2.0c
	Brocade 6505	16x16Gb	2.6.14.2
Qlogic	SANBox 5800	8x8Gb	7.4.0.10.0
	SANBox 3810	8x8Gb	7.4.0.16.0

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	SANBox 5200	8x2Gb	4.2.0.18-0

11.Fibre Channel SFPs

Vendor	Model	Type
Brocade	Brocade 57-0000088-01	16Gb Multi-mode
	8G SWL (P/N:57-1000012-01)	8Gb Multi-mode
Finisar	FTLF8529P3BNV-E5	16Gb Multi-mode
	FTLF8529P3BCV	16Gb Multi-mode
	FTLF8528P2BCV	8Gb Multi-mode
	FTLF8528P2BNV	8Gb Multi-mode
	FTLF8528P3BNV	8Gb Multi-mode
	FTLF8524P2BNL	4Gb Multi-mode
Avago	AFBR-57D7APZ	8Gb Multi-mode
	AFBR-57R5APZ	4Gb Multi-mode
QLogic	FTLF8529P3BCV-QL	16Gb Multi-mode

12.SAS Host Adapters (For host connected withVess J2000)

Vendor	Model	BIOS/FW	PCI Interface	External Channels	RAID Function
LSI	Mega RAID SAS 9285	F/W: v1.51	PCIe	8 ports	RAID
	Mega RAID SAS 9280	F/W: v1.51	PCIe	8 ports	RAID
	SAS 9205	F/W: 15.00.00.00	PCIe	8 ports	Non-RAID
	SAS 9200	F/W: 15.00.00.00	PCIe	8 ports	Non-RAID
Areca	ARC-1882X[(1)]	V1.05 / v1.51	PCIe	8 ports	RAID
ATTO	ExpressSAS R680	F/W: 3.00	PCIe	8 ports	RAID

[(1)]This model only supports single-controller based JBOD expansion, and scales up to seven single-controller based JBOD enclosures.

- In a RAID array setup, we recommend using the enterprise level hard drive as it has much better command timeout control and features stable reliability to vibration compared to desktop one for critical applications.
- Some listed devices may go EOL. AVL listing does not imply market availability.
- Additional AA-Mux adapter is required when use with SATA 3Gb drive, while SATA 6Gb drive requires BlackJack adapter.
- Verified all listed SATA drives with 3Gb AA-Mux adapter and 6G Blackjack adapter.
- When you use SATA 6Gb/s drive with 3Gb AA-Mux adapter in the disk array system, the drive runs at 3Gb/s speed.

13.Misc Thounderbolt Devices (For SAN Link 2)

Vendor	Model	Driver/FW	Interface	External Channels
Promise	SAN Link 2 8G FC	1.4.8/20.1	Thounderbolt 2	2 ports
	SAN Link 2 10G Base-T[(1)]	1.48/24.2	Thounderbolt 2	2 ports

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	SAN Link 2 10G SFP+(1)	1.48/25.1	Thounderbolt 2	2 ports

(1)**This model only supports NAS function in MAC platform.**

14.Operating Systems

Vendor	Core Platform	Type
Microsoft	Windows Server 2003 Enterprise Edition R2 w/ SP2	x86/x64
	Windows Server 2008 Datacenter Edition w/ SP2	x86/x64
	Windows Server 2008 R2 SP1 Datacenter Edition	x64
	Windows 2012 Datacenter	x64
	Windows 2012 R2 Standard	x64
	Windows 2012 R2 Datacenter	x64
RedHat	Enterprise Linux 5.7	x86/x64
	Enterprise Linux 5.9	x86/x64
	Enterprise Linux 6.3	x86/x64
	Enterprise Linux 6.5	x86/x64
SUSE	LINUX Enterprise Server 10 + SP4	x86/x64
	LINUX Enterprise Server 11 + SP2	x86/x64
CentOS	5.8	x86/x64
	6.2	x86/x64
	6.5	x86/x64
	7.0	X64
Ubuntu	Server Edition 11.10	x86/x64
	Server Edition 12.04	x86/x64
	Server Edition 13.10	x86/x64
Apple	OS X Mavericks (10.9)	x64
	OS X Mountain Lion (10.8)	x64

- SUSE LINUX Enterprise Server 10 + SP4-32bit can't support dual controller boot from SAN
- SUSE LINUX Enterprise Server 11 + SP2-32bit can't support dual controller boot from SAN
- Apple OS X Mavericks (10.9) only supports file-level AFP Protocol operation and Time Machine backup
- Apple OS X Mountain Lion (10.8) only supports file-level AFP Protocol operation and Time Machine backup

15.Web Browsers

Browsers Name
Mozilla Firefox 14.0.1
Google Chrome 20.0.1132.57 m
Internet Explorer 7 (Version:7.0.5730.13)
Internet Explorer 8 (Version:8.0.6001.18702)
Internet Explorer 9 (Version:)
Safari 5.1.7 for Windows
Safari 5.1.7 for MAC
Mozilla Firefox for Linux 3.6.13

- Note: Promise always strives to test latest web browsers as soon as they become available.

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16.USB Flash Drive

Vendor	Model	Capacity
A-DATA	N005 USB3.0	64GB
	Classic C103 USB3.0	16GB
Apacer	Handy Steno AH323	16GB
	Handy Steno AH552 USB 3.0	64GB
SONY	Micro Vault Click USM8GLX	8GB
	Micro Vault Click USM16GL	16GB
	Micro Vault USM-Q USB3.0	64GB
Transcend	JetFlashUSB 3.0 700 64GB	64GB
PATRIOT	XPORTER XT	32GB

17.UPS

Vendor	Model	HW Rev.	APC OS	APP. Module SW
APC	Smart-UPS 1500	667.18.D	V5.0.3	V5.0.3
	Smart-UPS 3000	666.6.D	V5.0.3	V5.0.3

18.Multi-Path Support

Verified this feature with following MPIO driver version:

OS Type / RAID System	Windows Server 2003 R2 SP2	Windows Server 2008 R2 sp1	RHEL 6.0	SLES 11.0
VessR-Class	v2.08	v6.1.7601.17514	V6.0	V6.0

19.JBODs Support

(1) PROMISE® VessJ2600

20.VMware® Support

Certified this feature with

(1) VessR2600 Series iSCSI Feature

- VMware® ESXi 5.1

The link of VMware Compatibility Guide:
https://www.vmware.com/resources/compatibility/detail.php?deviceCategory=san&productid=34556&deviceCategory=san&keyword=34556&isSVA=1&page=1&display_interval=10&sortColumn=Partner&sortOrder=Asc

(2) Vess R2600 Series Fibre Channel

- VMware® ESXi 5.1[8G FC Switched]

The link of VMware Compatibility Guide:
http://partnerweb.vmware.com/comp_guide2/detail.php?deviceCategory=san&productid=34256&deviceCategory=san&partner=71&releases=171&arrayTypes=2&isSVA=1&page=1&display_interval=10&sortColumn=Partner&sortOrder=Asc

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(3) Vess R2600 Series NAS
- VMware® ESXi 5.5

The link of VMware Compatibility Guide:
http://partnerweb.vmware.com/comp_guide2/detail.php?deviceCategory=san&productid=36296&vcl=true

(4) VessR2600 Series iSCSI Feature

(5) VMware®ESXi 5.5
http://partnerweb.vmware.com/comp_guide2/detail.php?deviceCategory=san&productid=37082&vcl=true

(6) VessR2600 Series Fibre Channel
- VMware®ESXi 5.5[8G FC Switched]

http://partnerweb.vmware.com/comp_guide2/detail.php?deviceCategory=san&productid=37081&vcl=true

21.Citrix® Support

Certified this feature with

(1) VessR2600 Series iSCSI and Fibre Channel
- XenServer6.1

The link of Citrix:
https://www.citrix.com/ready/en/promise-technology-inc/vess-r2000-series

(2) VessR2600 Series NAS Channel
- XenServer6.2

The link of Citrix:
http://www.citrix.com/ready/en/promise-technology-inc/vess-r2000-series

22.Microsoft® Windows Hyper-V

Verified this feature under VessR2600 series with

(1) Microsoft® Hyper-V Server 2008 R2 sp1

23.Microsoft® Windows Failover Cluster Services

Verified this feature with following combination:

OS Type / RAID System	Microsoft® Windows Server 2012 Datacenter
VessR2000 Series - iSCSI	Qlogic QLE4062C Qlogic QLE4050
VessR2000 Series -FC	BROCADE 825 BROCADE 815

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