



BROADCOM®

Enclosure Interoperability Test Configuration Report

Test Report Name: IcyDock_MB998SP-B_Enclosure_12GIT_int-intelR2224-001

Test Project ID: SCGCQ00917615

The following tables detail the hardware configuration, software configuration and testing performed to verify interoperability.

NOTE: The highlighted RED device is the device under test.

Updated: Mar 08 2016

Testing Result: Passed

RAID Controllers:

Manufacturer	Model	Part Number
Broadcom	LSI SAS 9300-8i	H3-25573-00H

HDD/SSDs:

Manufacturer	Type	Protocol	Link Speed	Model	FW Version	Capacity	Size	RPM	SectorSize	Self-Encrypting
Samsung	SSD	SATA	6Gb/s	850 PRO, MZ7KE128HMGA	2B6Q	128GB	2.5"	NA	512	No

Servers:

Manufacturer	Model	System Bios	CPU Information	Motherboard	Number of CPUs	Memory
Intel	S2600GZ	SE5C600.86B .02.03.0003.0 41920141333	Intel(R) Xeon(R) CPU E5-2630 v2 @ 2.60GHz	NA	2	16

Enclosures:

Manufacturer	Model	Type	Expander Manufacturer	FW Rev	Slots	Protocol	Link Speed	Form Factor
ICY Dock	MB998SP-B	1U Backplane	N/A	N/A	8	SATA	6Gb/s	2.5"

SW, FW and Utilities:

Vendor	Name	Version
Broadcom	lsiutil	1.72
Oracle	vdbench	50403

Broadcom	Linux Driver	11.00.00.00-1
Broadcom	IT FW	10.00.00.00
Broadcom	mptsas3	8.25.00.00
Broadcom	sas3flash	11.00.00.00
Broadcom	sas3ircu	11.00.00.00

Cables:

Vendor	Model Number	Length (M)	Description
SerialCables	SA-F43S7P-1M	1	Int. HD MiniSAS (SFF-8643) to 4 7-pin SATA breakout

Operating Systems:

Vendor	Name	32/64 bit
RedHat	rhel6.6	64

Other Equipment Used:

Vendor	Model	Part Number	Description
Quarch	Torridon Array Controller	QTL 1461-04-037	Drive Push/Pull Module

Test Results:

CQ ID	Title	Description	Test Result	Comments
SCGCQ00523262	Interop : Power Cycle - To perform multiple power cycles with server powered on within 15 sec of power off (N cycles)	To perform multiple power cycles (N cycles) on the server without running IOs and verifying that the controller comes up at the expected PCIe speed and width during every cycle N is defined for every test accordingly default is 150 cycles	Passed	

SCGCQ00765858	Interop Test: System Configuration for IT controllers	To setup the system by bringing up the server with the OS, installing all the required Software/Hardware utilities and update to the latest firmware version to perform further testing.	Passed	
SCGCQ00770269	Interop : Drive Pull/Push - To verify that appropriate drive events are generated when drives connected to an IT controller are removed and inserted within various time intervals	This test case is to verify that drive removal and insertion events are detected successfully for every iteration when the drives are being removed and inserted with different time intervals	Passed	
SCGCQ00771856	Interop Test : IO's - To run long duration heavy IOs on the drives connected to an IT controller	To run long duration (24 hrs) heavy IOs on the drives connected an IT controller with various read/write, random/sequential percentages and verify that they run successfully without any hangs	Passed	
SCGCQ00882324	Interop Test : Manual Enclosure Power Cycle - To perform multiple power cycles with enclosure powered on within 60 sec of power off (10 cycles) with IT Controller.	To perform multiple power cycles (100 cycles) on the Enclosure without running IOs and checking for status of enclosure, controller, PDs, BBU at every cycle with IT Controller.	Passed	