



OpenFabrics Alliance

Interoperability Working Group (OFA-IWG)

March 2008 Interoperability Event Report

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 Report Rev1.01

Enclosed are the results from OFA Interoperability testing performed on the following devices under test (DUTs):

- Mellanox MHET2X-ITC (InfiniHost™ HCA, dual-port 10Gb/s, PCI-X, 128MB)*
- Mellanox MHEA28-ITC (InfiniHost™ III Ex HCA, dual-port 10Gb/s, PCIe1.2 x8, 128MB)*
- Mellanox MHEA28-XTC (InfiniHost™ III Ex HCA, dual-port 10Gb/s, PCIe1.2 x8, MemFree)*
- Mellanox MHES18-XTC (InfiniHost™ III Lx HCA, single-port 10Gb/s, PCIe1.2 x8, MemFree)*
- Mellanox MHES14-XTC (InfiniHost™ III Lx HCA, single-port 10Gb/s, PCIe1.2 x4, MemFree)*
- Mellanox MHGA28-ITC (InfiniHost™ III Ex HCA, dual-port 20Gb/s, PCIe1.2 x8, 128MB)*
- Mellanox MHGA28-XTC (InfiniHost™ III Ex HCA, dual-port 20Gb/s, PCIe1.2 x8, MemFree)*
- Mellanox MHGS18-XTC (InfiniHost™ III Lx HCA, single-port 20Gb/s, PCIe1.2 x8, MemFree)*
- Mellanox MHEH28-XTC (ConnectX™ IB HCA, dual-port 10Gb/s, PCIe2.0 x8, MemFree)*
- Mellanox MHGH28-XTC (ConnectX™ IB HCA, dual-port 20Gb/s, PCIe2.0 x8, MemFree)*

The test suite referenced in this report is available at the OFA website, at test time release 1.17 (March 3, 2008) was used:

<http://www.iol.unh.edu/services/testing/ofa/testplan.pdf>

The following table highlights the Mandatory test results required for the OpenFabrics Interoperability Logo for the DUT per the testplan referenced above and the current OpenFabrics Interoperability Logo Program (OFILP).

Mandatory Test Procedures	IWG Test Status	Result/Notes
10.1: IB Link Initialization	Mandatory	Passed – no issues seen
10.2: IB Fabric Initialization	Mandatory	Passed – no issues seen
10.3: IB IPoIB Connected Mode	Mandatory	Passed – no issues seen
10.9: TI iSER	Mandatory	Passed – no issues seen
10.10: SRP	Mandatory	Passed – no issues seen
10.11: SDP	Mandatory	Passed – no issues seen

For specific details regarding issues please see the corresponding test result.

Summary of all results follows on the second page of this report.

Testing Completed 03/21/2008

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Review Completed 05/05/2008

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Table 1: Result Summary

The following table summarizes all results from the event pertinent to an IB device.

Test Procedures	IWG Test Status	Result/Notes
10.1: IB Link Initialization	Mandatory	Passed – no issues seen
10.2: IB Fabric Initialization	Mandatory	Passed – no issues seen
10.3: IB IPoIB Connected Mode	Mandatory	Passed – no issues seen
10.4: IB IPoIB Datagram Mode	Beta	Not Tested
10.9: TI iSER	Mandatory	Passed – no issues seen
10.10: SRP	Mandatory	Passed – no issues seen
10.11: SDP	Mandatory	Passed – no issues seen
10.12: IB SM Failover and Handover	Beta	Not Tested
10.13: TI MPI - OSU	Beta	Not Tested
10.14: TI MPI - Intel	Beta	Not Tested
10.15: HP MPI - HP	Beta	Informative
10.16: TI uDAPL	Beta	Not Tested
10.18: IB FibreChannel Gateway	Beta	Not Tested
10.19: IB Ethernet Gateway	Beta	Not Tested
10.20: IB Reliable Datagram Sockets	Beta	Not Tested
10.21-22: TI Basic RDMA Interoperability	Beta	Not Tested
10.23-24: TI RDMA Operations over Interconnect Components	Beta	Not Tested

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Report Revision History

- v1.0 Initial Release
- v1.01 Editorial/formatting improvements

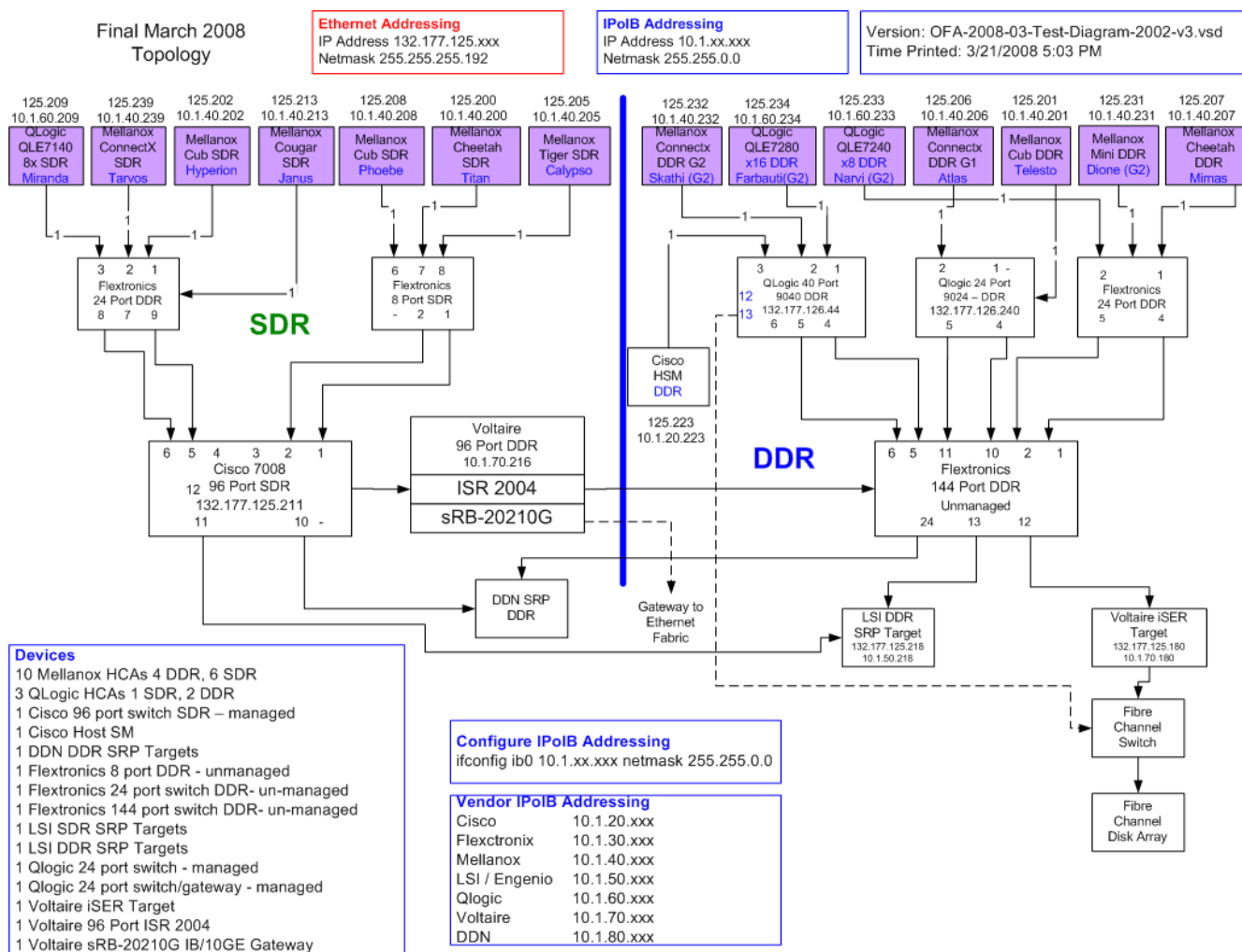
Table 2: Result Key

The following table contains possible results and their meanings:

Result:	Description:
PASS	The Device Under Test (DUT) was observed to exhibit conformant behavior.
PASS with Comments	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included, such as due to time limitations only a portion of the testing was performed.
FAIL	The DUT was observed to exhibit non-conformant behavior.
Warning	The DUT was observed to exhibit behavior that is not recommended.
Informative	Results are for informative purposes only and are not judged on a pass or fail basis.
Refer to Comments	From the observations, a valid pass or fail could not be determined. An additional explanation of the situation is included.
Not Applicable	The DUT does not support the technology required to perform this test.
Not Available	Due to testing station limitations or time limitations, the tests could not be performed.
Borderline	The observed values of the specified parameters are valid at one extreme and invalid at the other.
Not Tested	Not tested due to the time constraints of the test period.

Table 3: DUT and Test Setup Information

Figure 1: The IB fabric configuration utilized for any tests requiring a multi-switch configuration is shown below.



DUT #1 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	3.5.0
Model	MHET2X-1TC	Hardware Rev	A2
Speed	SDR 4x	IP Address in Fabric	10.1.40.213
Additional Comments/Notes			
Mellanox MHET2X-1TC (InfiniHost™ HCA, dual-port 10Gb/s, PCI-X, 128MB, “Cougar SDR”)			

DUT #2 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	4.8.2
Model	MHEA28-1TC	Hardware Rev	A2
Speed	SDR 4x	IP Address in Fabric	10.1.40.202
Additional Comments/Notes			
Mellanox MHEA28-1TC (InfiniHost™ III Ex HCA, dual-port 10Gb/s, PCIe1.2 x8, 128MB, “Lion Cub SDR”)			

DUT #3 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	5.3.0
Model	MHEA28-XTC	Hardware Rev	A2
Speed	SDR 4x	IP Address in Fabric	10.1.40.208
Additional Comments/Notes			
<i>Mellanox MHEA28-XTC (InfiniHost™ III Ex HCA, dual-port 10Gb/s, PCIe1.2 x8, MemFree, “Lion Mini SDR”)</i>			

DUT #4 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	1.2.0
Model	MHES18-XTC	Hardware Rev	A5
Speed	SDR 4x	IP Address in Fabric	10.1.40.200
Additional Comments/Notes			
<i>Mellanox MHES18-XTC (InfiniHost™ III Lx HCA, single-port 10Gb/s, PCIe1.2 x8, MemFree, “Cheetah SDR”)</i>			

DUT #5 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	1.2.0
Model	MHES14-XTC	Hardware Rev	A2
Speed	SDR 4x	IP Address in Fabric	10.1.40.205
Additional Comments/Notes			
<i>Mellanox MHES14-XTC (InfiniHost™ III Lx HCA, single-port 10Gb/s, PCIe1.2 x4, MemFree, “Tiger SDR”)</i>			

DUT #6 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	4.8.2
Model	MHGA28-1TC	Hardware Rev	A3
Speed	DDR 4x	IP Address in Fabric	10.1.40.201
Additional Comments/Notes			
<i>Mellanox MHGA28-1TC (InfiniHost™ III Ex HCA, dual-port 20Gb/s, PCIe1.2 x8, 128MB, “Lion Cub DDR”)</i>			

DUT #7 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	5.3.0
Model	MHGA28-XTC	Hardware Rev	A3
Speed	DDR 4x	IP Address in Fabric	10.1.40.231
Additional Comments/Notes			
<i>Mellanox MHGA28-XTC (InfiniHost™ III Ex HCA, dual-port 20Gb/s, PCIe1.2 x8, MemFree, “Lion Mini DDR”)</i>			

DUT #8 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	1.2.0
Model	MHGS18-XTC	Hardware Rev	A5
Speed	DDR 4x	IP Address in Fabric	10.1.40.207
Additional Comments/Notes			
<i>Mellanox MHGS18-XTC (InfiniHost™ III Lx HCA, single-port 20Gb/s, PCIe1.2 x8, MemFree, “Cheetah DDR”)</i>			

DUT #9 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	2.3.0
Model	MHEH28-XTC	Hardware Rev	X3
Speed	SDR 4x	IP Address in Fabric	10.1.40.239
Additional Comments/Notes			
<i>Mellanox MHEH28-XTC (ConnectX™ IB HCA, dual-port 10Gb/s, PCIe2.0 x8, MemFree “ConnectX SDR”)</i>			

DUT #10 Details			
Manufacturer	Mellanox Technologies	Firmware Rev	2.3.0
Model	MHGH28-XTC	Hardware Rev	X3
Speed	DDR 4x	IP Address in Fabric	10.1.40.232
Additional Comments/Notes			
<i>Mellanox MHGH28-XTC (ConnectX™ IB HCA, dual-port 20Gb/s, PCIe2.0 x8, MemFree “ConnectX DDR”)</i>			

Mandatory Tests - IB Device Test Summary Results:

The following tables detail results for tests identified by the OFA-IWG as mandatory tests for the OFA Interoperability Logo Program (OFILP) per the OFA-IWG Interoperability Test Plan Release 1.17 (March 3, 2008)

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 1: IB Link Initialize	Test #1: Phy link up all ports	Phy link is established	PASS
Discussion: Test #1: Phy link up all ports			
Physical link initialization was verified between this device and every switch in the fabric. Physical link initialization was not tested between this device and other non-switch devices. DDR cables were used for all link tests. Link status was observed visually via status lights on the device.			

	QLogic SilverStorm 9024	QLogic SilverStorm 9040	Voltaire ISR 2004	Cisco 7000D	Flextronics F-X430066	Flextronics F-X430044	Flextronics F-X430081
Host: Tarvos HCA: MT Connectx SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Hyperion HCA: MT LionCub SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Janus HCA: MT Cougar SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Phoebe HCA: MT LionCub SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Titan HCA: MT Cheetah SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Calypso HCA: MT Tiger SDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Skathi, G2 PCI Express HCA: MT Connectx DDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Atlas HCA: MT Connectx DDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Telesto HCA: MT LionCub DDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Dione, G2 PCI Express HCA: MT LionMini DDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Host: Mimas HCA: MT Cheetah DDR	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 2: IB Fabric Initialization	Test #1: Verify all SMs configure fabric	Port is Active with all SMs	PASS

Discussion: Test #1: Verify all SMs configure fabric

The fabric configuration shown in Figure 1 was used for this test. 'ibdiagnet -c 1000' showed no Port errors counters increment. Only one SM is run at a time. All switches are power cycled between SM trials. All links are validated via use of 'ibdiagnet' and on each host 'ibstatus' to validate speed, width and link state. Refer to the table below for result details. SMs tested include: *OFED OpenSM (SM Only)*, *QLogic SilverStorm 9024 (Managed Switch)*, *QLogic SilverStorm 9040 (Managed Switch)*, *Voltaire ISR 2004 (Managed Switch)*, *Cisco 7000D (Managed Switch)*, *Cisco High Performance SM (SM Only)*

For each SM listed above	All ports Armed/Active	No Dup GUIDs	No Port errors
Host: Tarvos HCA: MT Connectx SDR	PASS	PASS	PASS
Host: Hyperion HCA: MT LionCub SDR	PASS	PASS	PASS
Host: Janus HCA: MT Cougar SDR	PASS	PASS	PASS
Host: Phoebe HCA: MT LionCub SDR	PASS	PASS	PASS
Host: Titan HCA: MT Cheetah SDR	PASS	PASS	PASS
Host: Calypso HCA: MT Tiger SDR	PASS	PASS	PASS
Host: Skathi, G2 PCI Express HCA: MT Connectx DDR	PASS	PASS	PASS
Host: Atlas HCA: MT Connectx DDR	PASS	PASS	PASS
Host: Telesto HCA: MT LionCub DDR	PASS	PASS	PASS
Host: Dione, G2 PCI Express HCA: MT LionMini DDR	PASS	PASS	PASS
Host: Mimas HCA: MT Cheetah DDR	PASS	PASS	PASS

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 3: IPoIB Connected Mode	Test #1-3	Tests completed without errors	PASS
Discussion: Test #1			
An automated test script was used to send ICMP Echo Request packets with payloads of specific sizes between all hosts on the configured fabric. This procedure was repeated with each subnet manager independently managing the fabric.			
Discussion: Test #2			
An HCA was disconnected from the fabric and reconnected in a different location; the ICMP Echo Reply packets ceased while the HCA was disconnected, and then resumed when it was reconnected. This procedure was repeated once with each subnet manager independently managing the fabric.			
Discussion: Test #3			
An automated test script was used to transfer a 4MB file using the SFTP protocol between all hosts on the configured fabric. The file was transferred four times in each direction between all hosts, and the contents of the file was verified after each transfer. This procedure was repeated with each subnet manager independently managing the fabric.			
For all test cases, SMs tested include: <i>OFED OpenSM (SM Only)</i> , <i>QLogic SilverStorm 9024 (Managed Switch)</i> , <i>QLogic SilverStorm 9040 (Managed Switch)</i> , <i>Voltaire ISR 2004 (Managed Switch)</i> , <i>Cisco 7000D (Managed Switch)</i> , <i>Cisco High Performance SM (SM Only)</i>			

For each SM listed above	Test 1	Test 2	Test 3
Host: Tarvos HCA: MT Connectx SDR	PASS	PASS	PASS
Host: Hyperion HCA: MT LionCub SDR	PASS	PASS	PASS
Host: Janus HCA: MT Cougar SDR	PASS	PASS	PASS
Host: Phoebe HCA: MT LionCub SDR	PASS	PASS	PASS
Host: Titan HCA: MT Cheetah SDR	PASS	PASS	PASS
Host: Calypso HCA: MT Tiger SDR	PASS	PASS	PASS
Host: Skathi, G2 PCI Express HCA: MT Connectx DDR	PASS	PASS	PASS
Host: Atlas HCA: MT Connectx DDR	PASS	PASS	PASS
Host: Telesto HCA: MT LionCub DDR	PASS	PASS	PASS
Host: Dione, G2 PCI Express HCA: MT LionMini DDR	PASS	PASS	PASS
Host: Mimas HCA: MT Cheetah DDR	PASS	PASS	PASS

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 9: TI iSER	Test #1-4		PASS
Discussion: Test #1-4			
All hosts were able to connect and perform transfer operations with the available iSER target. Due to time constraints, tests were run on a configured fabric and were not repeated for each subnet manager.			

For <i>Voltaire IPStor (iSER Target / FibreChannel Gateway)</i>	Test 1-4
Host: Tarvos, with HCA: Mellanox Connectx SDR	PASS
Host: Hyperion, with HCA: Mellanox LionCub SDR	PASS
Host: Janus, with HCA: Mellanox Cougar SDR	PASS
Host: Phoebe, with HCA: Mellanox LionCub SDR	PASS
Host: Titan, with HCA: Mellanox Cheetah SDR	PASS
Host: Calypso, with HCA: Mellanox Tiger SDR	PASS
Host: Skathi, G2 PCI Express, with HCA: Mellanox Connectx DDR	PASS
Host: Atlas, with HCA: Mellanox Connectx DDR	PASS
Host: Telesto, with HCA: Mellanox LionCub DDR	PASS
Host: Dione, G2 PCI Express, with HCA: Mellanox LionMini DDR	PASS
Host: Mimas, with HCA: Mellanox Cheetah DDR	PASS

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10: IB SRP	Test #1:	Automated Test Script	PASS
Discussion: Test Result			
The automated test script was revised since the version published in the test document. The automated test script runs the operations in the test plan with every available host and logs the results. The test log shows that the data transfer operation completed for each host to each available volume on the target, in both the read and write directions. Due to time constraints, tests were run on a configured fabric and were not repeated for each subnet manager.			

For <i>DataDirect Networks S2A 9900</i>	Verified Automated Test Result
Host: Tarvos, with HCA: Mellanox Connectx SDR	PASS
Host: Hyperion, with HCA: Mellanox LionCub SDR	PASS
Host: Janus, with HCA: Mellanox Cougar SDR	PASS
Host: Phoebe, with HCA: Mellanox LionCub SDR	PASS
Host: Titan, with HCA: Mellanox Cheetah SDR	PASS
Host: Calypso, with HCA: Mellanox Tiger SDR	PASS
Host: Skathi, G2 PCI Express, with HCA: Mellanox Connectx DDR	PASS
Host: Atlas, with HCA: Mellanox Connectx DDR	PASS
Host: Telesto, with HCA: Mellanox LionCub DDR	PASS
Host: Dione, G2 PCI Express, with HCA: Mellanox LionMini DDR	PASS
Host: Mimas, with HCA: Mellanox Cheetah DDR	PASS

For LSI XBB2-IB (Dual Controller SRP Storage System)	Verified Automated Test Result
Host: Tarvos, with HCA: Mellanox Connectx SDR	PASS
Host: Hyperion, with HCA: Mellanox LionCub SDR	PASS
Host: Janus, with HCA: Mellanox Cougar SDR	PASS
Host: Phoebe, with HCA: Mellanox LionCub SDR	PASS
Host: Titan, with HCA: Mellanox Cheetah SDR	PASS
Host: Calypso, with HCA: Mellanox Tiger SDR	PASS
Host: Skathi, G2 PCI Express, with HCA: Mellanox Connectx DDR	PASS
Host: Atlas, with HCA: Mellanox Connectx DDR	PASS
Host: Telesto, with HCA: Mellanox LionCub DDR	PASS
Host: Dione, G2 PCI Express, with HCA: Mellanox LionMini DDR	PASS
Host: Mimas, with HCA: Mellanox Cheetah DDR	PASS

For LSI Engenio 0825 (SRP Storage System)	Verified Automated Test Result
Host: Tarvos, with HCA: Mellanox Connectx SDR	PASS
Host: Hyperion, with HCA: Mellanox LionCub SDR	PASS
Host: Janus, with HCA: Mellanox Cougar SDR	PASS
Host: Phoebe, with HCA: Mellanox LionCub SDR	PASS
Host: Titan, with HCA: Mellanox Cheetah SDR	PASS
Host: Calypso, with HCA: Mellanox Tiger SDR	PASS
Host: Skathi, G2 PCI Express, with HCA: Mellanox Connectx DDR	PASS
Host: Atlas, with HCA: Mellanox Connectx DDR	PASS
Host: Telesto, with HCA: Mellanox LionCub DDR	PASS
Host: Dione, G2 PCI Express, with HCA: Mellanox LionMini DDR	PASS
Host: Mimas, with HCA: Mellanox Cheetah DDR	PASS

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 11: TI SDP	Test #1: Netperf Procedure	Test Completed without errors	PASS
	Test #2: FTP Procedure	Test Completed without errors	PASS
	Test #3: SCP Procedure	Test Completed without errors	PASS

Discussion: Test #1

The automated test script was revised since the version published in the 1.17 version of the test plan. Automated test scripts run the three parts of the SDP procedure between every possible pair of hosts without the hosts connecting to themselves and records the results to a log. The test logs show that no issues were seen with the procedures. Every operation completed for each pair. However, some hosts were noted to run significantly slower than others during the transfers. This is not a failure as per the current test plan, but it should be noted that this could become a topic of focus in future revisions of the Test Plan.

Beta Tests - IB Device Test Results:

The following table details results for tests identified by the OFA-IWG as beta tests for the OFA Interoperability Logo Program (OFILP) per the OFA-IWG Interoperability Test Plan Release 1.17 (March 3, 2008)

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 4: IPoIB Datagram Mode	Test #1-3		Not Tested
Discussion: Test #1-3			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 12: IB SM Failover and Handover	Test #1-4		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 13: TI MPI – Ohio State Univ.	Test #1-14		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 14: MPI – Intel	Test #1-21		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 15: MPI – Hewlett-Packard		ibv & udapl on Mellanox	Informative
		ibv & udapl on Mellanox & QLogic	Informative
Discussion: ibv & udapl on Mellanox			
<p>- ibv&udapl on mellanox (tarvos,hyperion,janus,phoebe,titan,calypso, skathi,atlas,telesto,dione,mimas)</p> <p>All tests passed, with a small caveat on the fork test, and some stability caveats.</p> <ul style="list-style-type: none"> - detection: status:passed - exitpath: status:passed - fork: status:passed (IBV rdma) - fork: status:passed (IBV srq) - fork: status:passed (UDAPL rdma) - IMB: status:passed (8M: IBV rdma) - IMB: status:passed (256k: IBV srq) - IMB: status:passed (256k: UDAPL rdma) - rings2: status:passed (IBV rdma) - rings2: status:passed (IBV srq) - rings2: status:passed (UDAPL rdma) <p>Results saved in results.mellanox/*.LOG.*</p>			
Discussion: ibv & udapl on Mellanox & QLogic			
<p>- ibv&udapl on mellanox and qlogic (tarvos,hyperion,janus,phoebe,titan, calypso,skathi,atlas,telesto,dione,mimas and miranda,farbauti,narvi)</p> <p>Low to moderate traffic tests passed, with a small caveat on the fork test. All high traffic tests failed.</p> <ul style="list-style-type: none"> - detection: status:passed (defaults test:) - exitpath: status:passed (post-exitpath pingpong test: -IBV -rdma) - fork: status:passed (IBV rdma) - fork: status:passed (IBV srq) - fork: status:passed (UDAPL rdma) - IMB: status:FAILED (8M: IBV rdma) - IMB: status:FAILED (256k: IBV srq) - IMB: status:FAILED (256k: UDAPL rdma) - rings2: status:FAILED (IBV rdma) - rings2: status:FAILED (IBV srq) - rings2: status:FAILED (UDAPL rdma) <p>Results saved in results.mellanox_qlogic/*.LOG.*</p>			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 16: TI uDAPL	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 18: IB FibreChannel Gateway	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 19: IB Ethernet Gateway	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 20: IB Reliable Datagram Sockets	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 21: TI Basic RDMA Interoperability	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 23-24: TI RDMA Operations over Interconnect Components	Test #1-10		Not Tested
Discussion: Test Results			
Not tested due to time constraints			