



OpenFabrics Alliance

Interoperability Logo Group (OFILG)

January 2014 Logo Event Report

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Date: 26 February 2014
Report Revision: 1.1
OFED Version on Compute Nodes: 3.5-2
Operating System on Compute Nodes: SL 6.4

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):
Mellanox BX5020

The test suite referenced in this report is available at the IOL website. Release 1.49 (2013-Nov-5) was used.

<http://iol.unh.edu/ofatestplan>

The following table highlights the mandatory tests required for the OpenFabrics Interoperability Logo for the InfiniBand-to-FibreChannel Gateway device class per the Test Plan and the current OpenFabrics Interoperability Logo Program (OFILP).

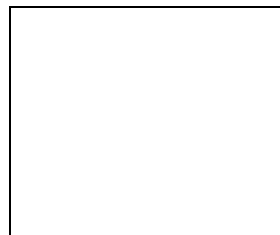
Additional beta testing than reflected in this report was performed using the DUT. A separate report will outline those results.

Test Procedures	IWG Test Status	Result/Notes
11.1: Link Initialization	Mandatory	PASS
11.2: Fabric Initialization	Mandatory	PASS
11.5: SM Failover and Handover	Mandatory	PASS
11.7: IB Ethernet Gateway	Beta	Not Tested
11.8 IB FibreChannel Gateway	Beta	Not Tested

Summary of all results follows on the second page of this report.
For Specific details regarding issues, please see the corresponding test result.

Testing Completed 17 Jan 2014

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Review Completed 26 Feb 2014

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Result Summary

The following table summarizes all results from the event pertinent to this IB device class (InfiniBand-to-FibreChannel Gateway)

Test Procedures	IWG Test Status	Result/Notes
11.1: Link Initialization	Mandatory	PASS
11.2: Fabric Initialization	Mandatory	PASS
11.5: SM Failover and Handover	Mandatory	PASS
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Report Revision History

- v1.0 Initial working copy
- v1.1 Updated topology file

Configuration Files

Description	Attachment
Scientific Linux 6.4 Configuration File	
OFED 3.5-2 Configuration File	

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.
Qualified PASS	The DUT was observed to exhibit conformant behavior, with the exception of fault(s) or defect(s) which were previously known.
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 specific parameters are valid at one extreme and invalid at the other.
Not Tested	Not tested due to the time constraints of the test period.

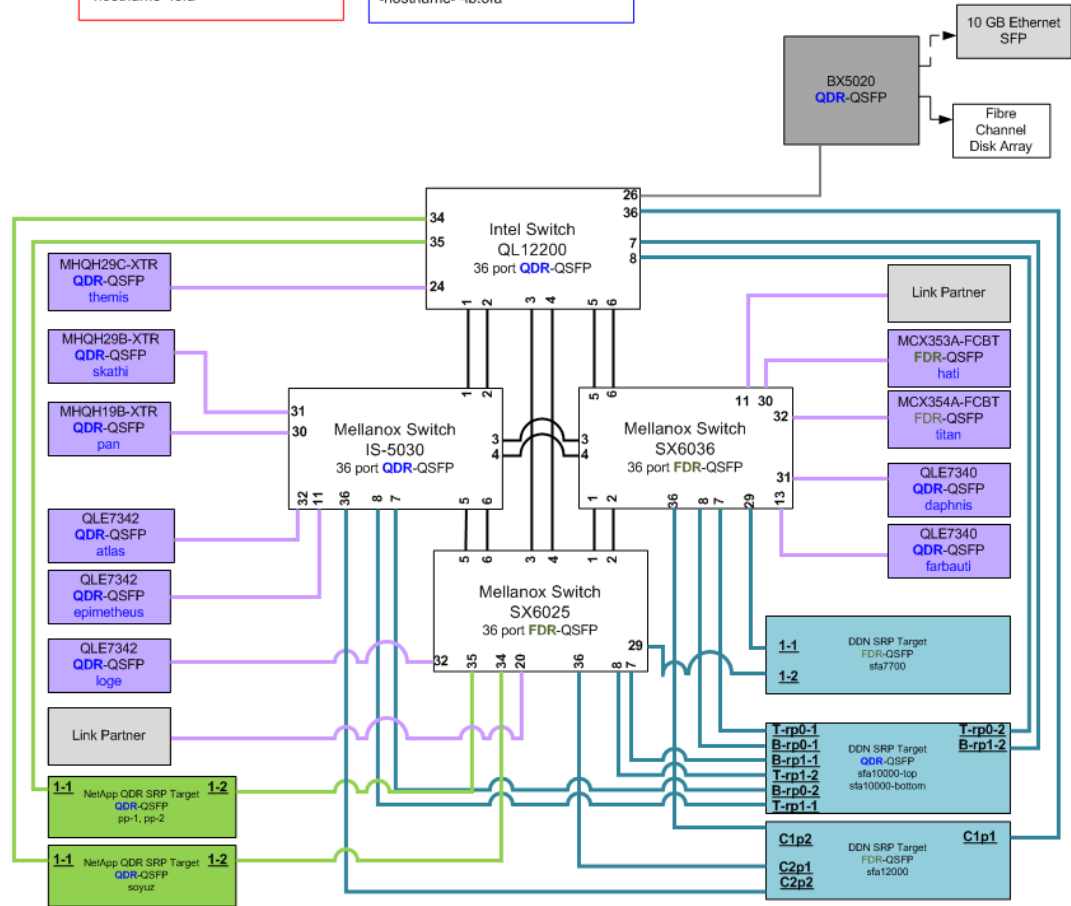
DUT and Test Setup Information

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

January 2014
 InfiniBand Topology

Ethernet Addressing
 <hostname>.ofa

IPoIB Addressing
 <hostname>-lb.ofa



DUT #1 Details			
Manufacturer:	Mellanox	Firmware Revision:	8.6.2070
Model:	BX5020	Hardware Revision:	1.0
Speed:	QDR	Located in Host:	NA
Firmware MD5sum:	95cda84c0ceac66b72072a6b68934394		
Additional Comments / Notes:			
Device is a gateway			

Mandatory Tests – IB Device Test Results:

11.1: Link Initialization

Results	
Part #1:	PASS
Discussion:	
All links established with the DUT were of the proper link speed and width.	

Link Partner	Bridge-X	
QLogic 12200 (Switch) – QDR	PASS	
Mellanox SX6025 (Switch) – FDR	PASS	
Mellanox SX6036 (Switch) – FDR	PASS	
Mellanox IS-5030 (Switch) – QDR	PASS	
DataDirect Networks SFA12000 (SRP Target) – FDR	NA	
DataDirect Networks SFA10000 (SRP Target) – QDR	NA	
DataDirect Networks SFA7700 (SRP Target) – FDR	NA	
NetApp Soyuz (SRP Target) – QDR	NA	
NetApp Pikes Peak (SRP Target) – QDR	NA	
Mellanox BX5020 (Gateway) - QDR	NA	
Host: themis	HCA: MHQH29C-XTR (QDR)	PASS
Host: pan	HCA: MHQH19B-XTR (QDR)	PASS
Host: skathi	HCA: MHQH29B-XTR (QDR)	PASS
Host: titan	HCA: MCX354A-FCBT (FDR)	PASS
Host: hati	HCA: MCX353A-FCBT (FDR)	PASS
Host: loge	HCA: QLE7342 (QDR)	PASS
Host: daphnis	HCA: QLE7340 (QDR)	PASS

11.2: Fabric Initialization

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All subnet managers used while testing with OFED 3.5-2 were able to correctly configure the selected topology.	

11.5: SM Failover and Handover

SM Pairings	Result
OpenSM	PASS
Result Discussion:	
OpenSM was able to properly handle SM priority and state rules.	

Beta Tests – IB Device Test Results:

11.7: IB Ethernet Gateway

Subnet Manager	Result
OpenSM	Not Tested
Result Discussion:	
This test was not performed, as there are no devices that support the Ethernet Gateway test procedure present in the event topology.	

11.8 IB FibreChannel Gateway

Subnet Manager	Result
OpenSM	Not Tested
Result Discussion:	
This test was not performed, as there are no devices that support the FibreChannel Gateway test procedure present in the event topology.	