

# **OpenFabrics Alliance**

### Interoperability Logo Group (OFILG)

May 2013 Logo Event Report

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Amit KringDate:25 July 2013Mellanox TechnologiesReport Revision:1.1Hermon Building 4<sup>th</sup> FloorOFED Version on Compute Nodes:3.5P.O. Box 586, Yokenam 20692Operating System on Compute Nodes:SL 6.3IsraelIsraelIsraelIsrael

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 1.47 (2013-Apr-16) was used.

### http://iol.unh.edu/ofatestplan

The following table highlights the mandatory test results required for the OpenFabrics Interoperability Logo for the DUT per the Test Plan referenced above 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	Qualified PASS
11.2: Fabric Initialization	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 08 July 2013

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Review Completed 08 July 2013

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## **Result Summary**

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

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

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# **Report Revision History**

• v1.0 Initial working copy

# **Configuration Files**

Description	Attachment
Scientific Linux 6.3 Configuration File	Q
OFED 3.5 Configuration File	Q

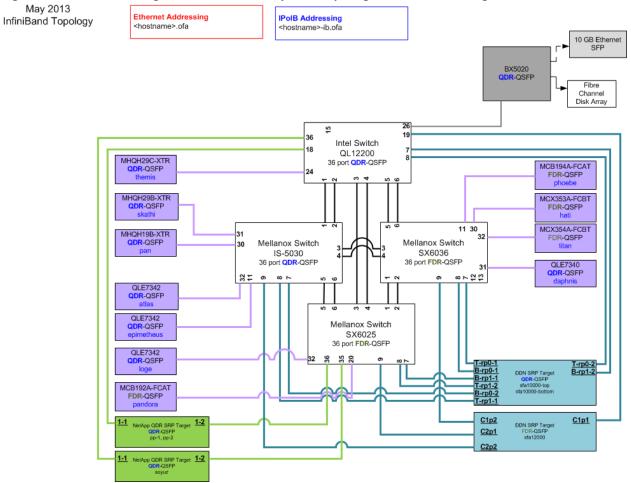
### **Result Key**

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	The DUT was observed to exhibit conformant behavior however an additional explination
Comments	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.



DUT #1 Details			
Manufacturer:	Mellanox	Firmware Revision:	8.5.2230
Model:	BX5020	Hardware Revision:	1.0
Speed:	QDR	Located in Host:	NA
Firmware MD5sum:	8632dba9325bb37341b3f36355979965		
Additional Comments / Notes:			
Device is a gateway			

# **Mandatory Tests – IB Device Test Results:**

#### 11.1: Link Initialization

Results		
Part #1:	Qualified PASS	
Discussion:		
All links established with the DUT were of the proper link speed and width, with the exception of the MCB194A-FCAT HCA, which was observed to link at 4X SDR. This behavior is expected due to manufacturer limitations with the Bridge-X.		

Link Partner		Bridge-X
QLogic 12200 (Switch) – QDR		PASS
Mellanox SX6025 (Sv	witch) – FDR	PASS
Mellanox SX6036 (Sv	witch) – FDR	PASS
Mellanox IS-5030 (S	witch) – QDR	PASS
DataDirect Network	s SFA12000 (SRP Target) – FDR	NA
DataDirect Networks SFA10000 (SRP Target) – QDR		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: phoebe	HCA: MCB194A-FCAT (FDR)	FAIL
Host: pandora	HCA: MCB192A-FCAT (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 were able to correctly configure the selected topology.		

### **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.		