



# OpenFabrics Alliance

## Interoperability Logo Group (OFILG)

### February 2013 Logo Event Report

UNH-IOL – 121 Technology Drive, Suite 2 – Durham, NH 03824 – +1-603-862-0090  
OpenFabrics Interoperability Logo Group (OFILG) – ofalab@iol.unh.edu

Abdel Sadek  
NetApp  
3718 N. Rock Road  
Wichita, KS 67226

Date: 04 April 2013  
Report Revision: 1.0  
OFED Version on Compute Nodes: 3.5  
Operating System on Compute Nodes: SL 6.3

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):  
*NetApp Pikes Peak (5468)*

The test suite referenced in this report is available at the IOL website. Release 1.46 (2012-Dec-17) was used.

<https://www.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
<a href="#">11.1: Link Initialization</a>	Mandatory	PASS
<a href="#">11.2: Fabric Initialization</a>	Mandatory	PASS
<a href="#">11.5: SM Failover and Handover</a>	Mandatory	PASS
<a href="#">11.6: SRP</a>	Mandatory	PASS

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 March 27, 2013

Edward L. Mossman  
[emossman@iol.unh.edu](mailto:emossman@iol.unh.edu)



Review Completed April 4, 2013

Bob Noseworthy  
[ren@iol.unh.edu](mailto:ren@iol.unh.edu)

## Result Summary

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

Test Procedures	IWG Test Status	Result/Notes
<a href="#">11.1: Link Initialization</a>	Mandatory	PASS
<a href="#">11.2: Fabric Initialization</a>	Mandatory	PASS
<a href="#">11.5: SM Failover and Handover</a>	Mandatory	PASS
<a href="#">11.6: SRP</a>	Mandatory	PASS

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## Report Revision History

- v1.0 Initial working copy

## Configuration Files

Description	Attachment
Scientific Linux 6.3 Configuration File	
OFED 3.5 Configuration File	

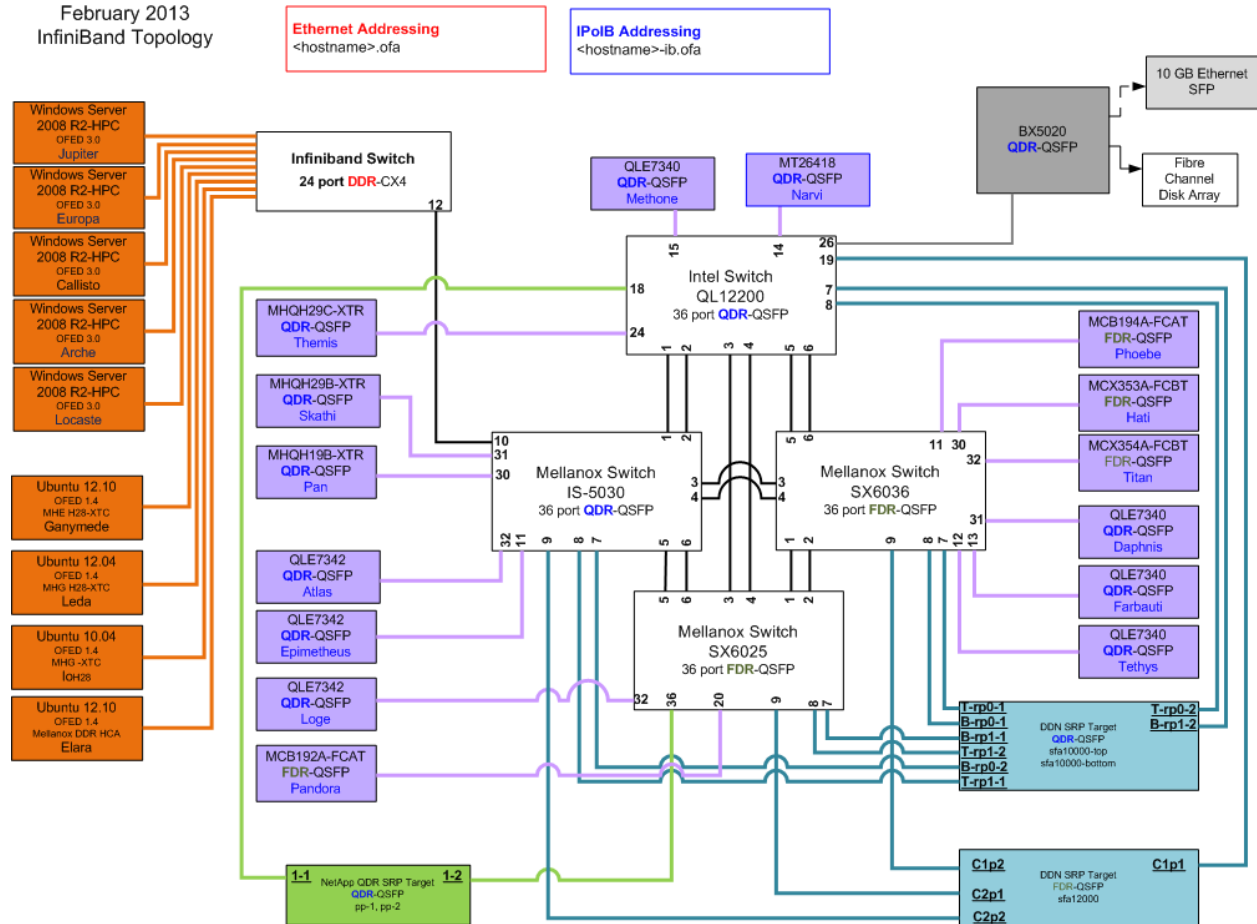
## Result Key

The following table contains possible results and their meanings:

Result:	Description:
<b>PASS</b>	The Device Under Test (DUT) was observed to exhibit conformant behavior.
<b>PASS with Comments</b>	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included.
<b>FAIL</b>	The DUT was observed to exhibit non-conformant behavior.
<b>Warning</b>	The DUT was observed to exhibit behavior that is not recommended.
<b>Informative</b>	Results are for informative purposes only and are not judged on a pass or fail basis.
<b>Refer to Comments</b>	From the observations, a valid pass or fail could not be determined. An additional explanation of the situation is included.
<b>Not Applicable</b>	The DUT does not support the technology required to perform this test.
<b>Not Available</b>	Due to testing station limitations or time limitations, the tests could not be performed.
<b>Borderline</b>	The observed values of the specific parameters are valid at one extreme and invalid at the other.
<b>Not Tested</b>	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:	NetApp	Firmware Revision:	07.84.42.00
Model:	Pikes Peak (5468)	Hardware Revision:	1.0
Speed:	QDR	Located in Host:	NA
Firmware MD5sum:	ebd6775dee443b2e638a4ef1633a860e		
Additional Comments / Notes:			

## 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	Pikes Peak	
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	
NetApp Pikes Peak (SRP Target) – QDR	NA	
Mellanox BX5020 (Gateway) - QDR	PASS	
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)	PASS
Host: pandora	HCA: MCB192A-FCAT (FDR)	PASS
Host: atlas	HCA: QLE7342 (QDR)	PASS
Host: daphnis	HCA: QLE7340 (QDR)	PASS

### 11.2: Fabric Initialization

Subnet Manager			
OpenSM	IS-5030 SM	SX-6036 SM	12200 SM
PASS	PASS	PASS	PASS
Result Discussion:			
All subnet managers used while testing with OFED 3.5 were able to correctly configure the selected topology.			

**11.5: SM Failover and Handover**

Subnet Manager	Result
OpenSM OFED 3.5	PASS
<b>Result Discussion:</b>	
OpenSM was able to properly handle SM priority and state rules.	

**11.6: SRP**

Subnet Manager			
OpenSM	IS-5030 SM	SX-6036 SM	12200 SM
PASS	PASS	PASS	PASS
<b>Result Discussion:</b>			
With the exception of XXXX HCA, SRP communications between all HCAs and all SRP targets succeeded while the above mentioned SMs were in control of the fabric.			