



OpenFabrics Alliance

Interoperability Logo Group (OFILG)

January 2015 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 67226-1308

Date: 18 March 2015
Report Revision: 1.2
OFED Version on Compute Nodes: 3.12-1
Operating System on Compute Nodes: Scientific Linux 7.0

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):
NetApp E5400 *NetApp E5500*

The test suite referenced in this report is available at the UNH-IOL website. Release 1.51 (2014-Sep-23) was used.

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

The following table highlights the mandatory test results required for the OpenFabrics Interoperability Logo for the SRP Target over InfiniBand device class per the Test Plan referenced above and the current OpenFabrics Interoperability Logo Program (OFILP).

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
11.6: SRP	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 17, 2015

Charles Valenza
cvalenza@iol.unh.edu



Reviewed & Issued March 24, 2015

Bob Noseworthy
ren@iol.unh.edu

Result Summary

The following table summarizes all results from the event pertinent to this IB device class (SRP Target over InfiniBand).

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
11.6: SRP	Mandatory	PASS

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Report Revision History

- v1.0 Initial working copy
- v1.1 Update DUT names per customer request
- v1.2 Change DUT names on Link Init table

Configuration Files

Description	Attachment
Scientific Linux 7.0 Configuration File	
OFED 3.12-1 Configuration File	

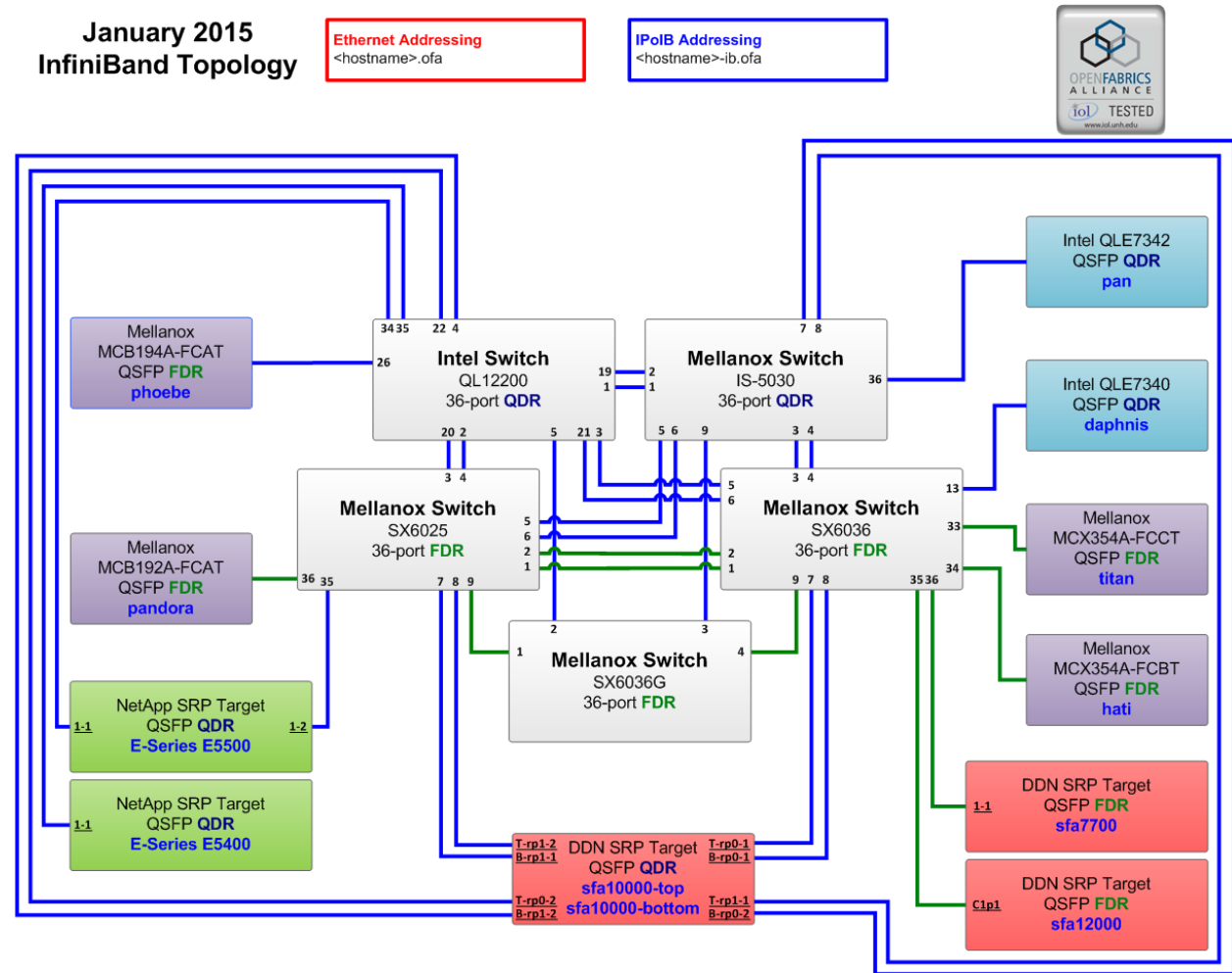
Result Key

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.



DUT #1 Details			
Manufacturer:	NetApp	Firmware Revision:	08.20.05.00
Model:	E5400	Hardware Revision:	1.0
Speed:	QDR	Located in Host:	N/A
Firmware MD5sum:	858548026e8208371900bdf82071175f		
Additional Comments / Notes:			

DUT #2 Details			
Manufacturer:	NetApp	Firmware Revision:	08.20.05.00
Model:	E5500	Hardware Revision:	1.0
Speed:	QDR	Located in Host:	N/A
Firmware MD5sum:	c6764dd5e42c48da875b68f7fd7f4ca4		
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	E5400	E5500	
Intel 12200 (Switch) – QDR	PASS	PASS	
Mellanox SX6025 (Switch) – FDR	PASS	PASS	
Mellanox SX6036 (Switch) – FDR	PASS	PASS	
Mellanox IS-5030 (Switch) – QDR	PASS	PASS	
Mellanox SX6036G (Switch) – FDR	PASS	PASS	
DataDirect Networks SFA12000 (SRP Target) – FDR	NA	NA	
DataDirect Networks SFA10000 (SRP Target) – QDR	NA	NA	
DataDirect Networks SFA7700 (SRP Target) – FDR	NA	NA	
NetApp E5500 (SRP Target) – QDR	NA	NA	
NetApp E5400 (SRP Target) – QDR	NA	NA	
Host: hati	HCA: MCX354A-FCBT (FDR)	PASS	PASS
Host: titan	HCA: MCX354A-FCCT (FDR)	PASS	PASS
Host: phoebe	HCA: MCB194A-FCAT (FDR)	PASS	PASS
Host: pandora	HCA: MCB192A-FCAT (FDR)	PASS	PASS
Host: pan	HCA: QLE7342 (QDR)	PASS	PASS
Host: daphnis	HCA: QLE7340 (QDR)	PASS	PASS

11.2: Fabric Initialization

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All subnet managers used while testing with OFED 3.12-1 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.	

11.6: SRP

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
Core and extended SRP communications between all HCAs and all SRP targets succeeded while OpenSM was in control of the fabric.	