OpenFabrics Alliance
Interoperability Logo Group (OFILG)
February Logo Report

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Cover Page

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Date:	March 28, 2018
Report Revision:	1.0
OFED Version:	4.8-2-rc3
OS Version:	Scientific Linux 7.4

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

Intel 12200-CH01

The test suite referenced in this report is available at the UNH-IOL website. Release 2.06-v3 (2017-12-6) was used.

http://iol.unh.edu/ofatestplan

The following table highlights the Mandatory test required for the OpenFabrics Interoperability Logo for the InfiniBand HCA device class per the Test Plan and the current OpenFabrics Interoperability Logo Program (OFILP).

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

Test Procedures	IWG Test Status	Result/Notes
11.1: Link Initialization	**Mandatory**	**PASS**
11.2: Fabric Initialization	**Mandatory**	**PASS**
11.3: IPoIB Connected Mode	**Mandatory**	**PASS**
11.4: IPoIB Datagram Mode	**Mandatory**	**PASS**
11.5: SM Failover and Handover	**Mandatory**	**PASS**
11.6: SRP	**Mandatory**	**PASS**
13.2: TI NFS over RDMA	**Mandatory**	**N/A**
13.4: TI uDAPL	**Mandatory**	**PASS**
13.5: TI RDMA Basic Interoperability	**Mandatory**	**PASS**
13.6: TI RDMA Stress	**Mandatory**	**PASS**
13.7: TI RSockets	**Mandatory**	**PASS**
13.8: TI MPI – Open	**Mandatory**	**PASS**

For Specific details regarding issues, please see the corresponding test result.

Testing Completed March 28, 2018

Reviewed & Issued March 28, 2018

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Result Summary

The Following table summarizes all results from the event pertinent to this IB device class (InfiniBand HCA).

Test Procedures	IWG Test Status	Result/Notes
11.1: Link Initialization	Mandatory	PASS
11.2: Fabric Initialization	Mandatory	PASS
11.3: IPoIB Connected Mode	Mandatory	PASS
11.4: IPoIB Datagram Mode	Mandatory	PASS
11.5: SM Failover and Handover	Mandatory	PASS
11.6: SRP	Mandatory	PASS
11.7: IB Ethernet Gateway	Beta	Not Tested
11.8: IB FibreChannel Gateway	Beta	Not Tested
13.1: iSER	Beta	PASS
13.2: TI NFS over RDMA	Mandatory	N/A
13.4: TI uDAPL	Mandatory	PASS
13.5: TI RDMA Basic Interoperability	Mandatory	PASS
13.6: TI RDMA Stress	Mandatory	PASS
13.7: TI RSockets	Mandatory	PASS
13.8: TI MPI – Open	Mandatory	PASS

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Report Revision History

- v1.0 Initial working copy

Configuration Files

Description	Attachment
Scientific Linux 7.4 Configuration File	📎
OFED 4.8-2-rc3 Configuration File	📎

Result Key

The following table contains possible results and their meanings:

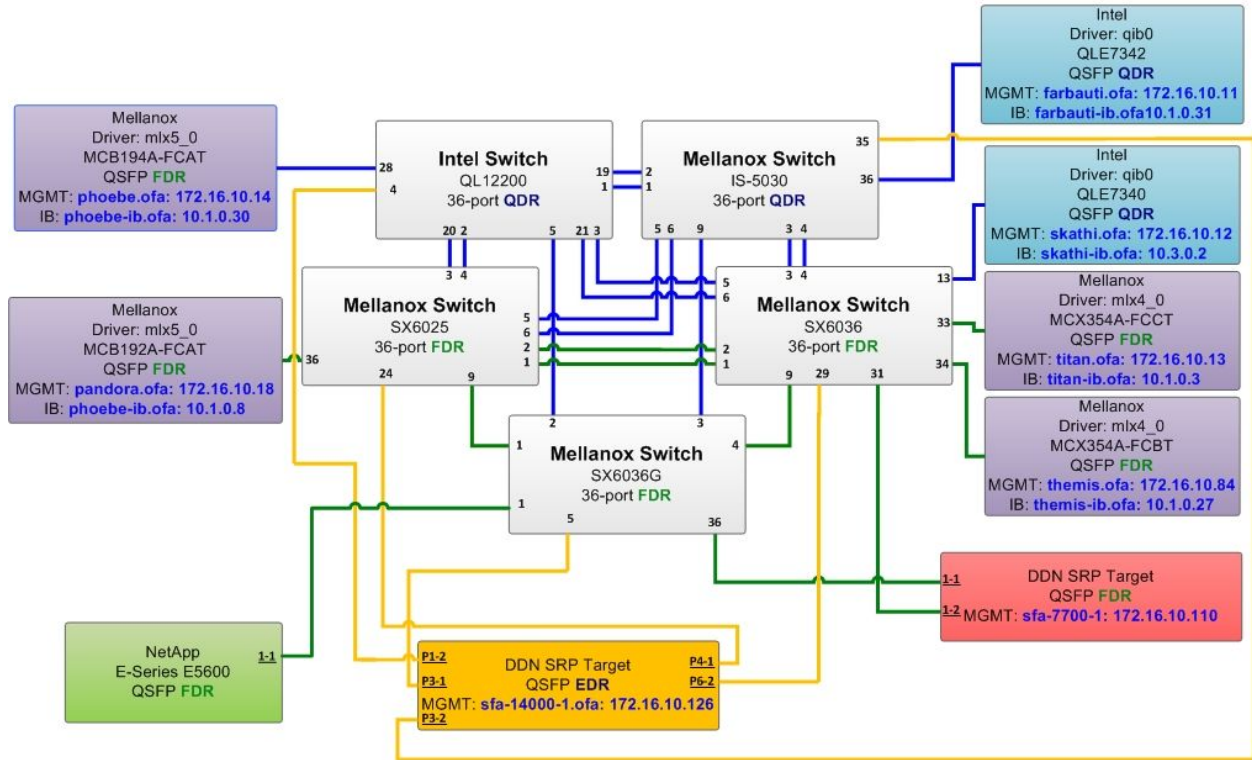| Result:	Description:
PASS	The Device Under Test (DUT) was observed to exhibit conformant behavior.
PASS with Comments	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included.
Qualified PASS	The DUT was observed to exhibit conformant behavior, 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

The IB fabric configuration utilized is shown below.

DUT #1 Details			
Manufacturer:	Intel Corporation	Firmware Revision:	7.4.0.0.20
Model:	12200-CH01	Hardware Revision:	3
Speed:	QDR	Located in Host:	N/A
Firmware MD5sum:	4b9c7cf9eb8db46ab24060c4d3a15a8a		
Additional Comments / Notes:			

Mandatory Tests – IB Device Test Results:

11.1: Link Initialization

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

11.2: Fabric Initialization

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All subnet managers used while testing with OFED 4.8 were able to correctly configure the selected topology.	

11.3: IPoIB Connected Mode

Subnet Manager	Part A	Part B	Part C
OpenSM	PASS	PASS	PASS
Result Discussion:			
IPoIB ping, SFTP, and SCP transactions completed successfully between all HCAs; each HCA acted as both a client and a server for all tests			

11.4: IPoIB Datagram Mode

Subnet Manager	Part A	Part B	Part C
OpenSM	PASS	PASS	PASS
Result Discussion:			
IPoIB ping, SFTP, and SCP transactions completed successfully between all HCAs; each HCA acted as both a client and a server for all tests			

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:	
Communications between all HCAs and all SRP targets succeeded while OpenSM was in control of the fabric.	

13.1: iSER

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
There were no iSER targets available for this event.	

13.2: TI NFS over RDMA

Subnet Manager	Result
OpenSM	N/A
Result Discussion:	
NFSoRDMA is not supported on SL7.4. Use SL7.3 if this functionality is needed.	

13.4: TI uDAPL

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All communications using DAPL were seen to complete successfully as described in the referenced test plan; each HCA acted as both a client and a server for all tests.	

13.5: TI RDMA Basic Interoperability

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All devices were shown to correctly exchange core RDMA operations across a simple network path under nominal (unstressed) conditions; each HCA acted as both a client and a server for all tests.	

13.6: TI RDMA Stress

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
All IB switches were seen to properly handle a large load as indicated by the successful completion of control communications between two HCAs while all other HCAs in the fabric were used to generate traffic in order to put a high load on the switch. Each HCA acted as both a client and a server for the control connection.	

13.7: TI RSockets

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
DUT's were observed to pass all rsockets procedures.	

13.8: TI MPI – Open

Subnet Manager	Result
OpenSM	PASS
Result Discussion:	
DUTs were capable of running the mpirun binary in accordance to the current test plan between all other hosts.	