OpenFabrics Alliance

Interoperability Logo Group (OFILG)

May 2012 Logo Event Report

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Date:	3 July 2012
Report Revision:	1.0
OFED Version:	1.5.4.1
OS Version:	Scientific Linux 6.2

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):
Chelsio Communications T420-CR RNIC *Chelsio Communications T420-CX RNIC*

The test suite referenced in this report is available at the IOL website. Release 1.42 (2012-Apr-03) was used.

http://www.iol.unh.edu/services/testing/ofa/testsuites/OFA-IWG_Interoperability_Test_Plan-v1.42.pdf

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)

Test Procedures	IWG Test Status	Result/Notes
11.1: Ethernet Link Initialization	Mandatory	PASS
11.2: Ethernet Fabric Initialization	Mandatory	Not Available
11.5: iWARP Connectivity	Mandatory	Not Available
12.5: TI uDAPL	Mandatory	PASS
12.6: TI RDMA Basic Interoperability	Mandatory	PASS
12.9: TI MPI – Open	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 1 May, 2012

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Digitally signed by UNH-IOL
Date: 2012.07.03 20:26:00 -04'00'

Review Completed 03 July, 2012

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Result Summary

The Following table summarizes all results from the event pertinent to this iWARP device class.

Test Procedures	IWG Test Status	Result/Notes
11.1: Ethernet Link Initialization	Mandatory	PASS
11.2: Ethernet Fabric Initialization	Mandatory	Not Available
11.3: Ethernet Fabric Reconvergence	Beta	Not Tested
11.4: Ethernet Fabric Failover	Beta	Not Tested
11.5: iWARP Connectivity	Mandatory	Not Available
12.1: TI iSER	Beta	Not Tested
12.2: TI NFS over RDMA	Beta	Not Tested
12.3: TI RDS	Beta	Not Supported
12.4: TI SDP	Beta	Not Supported
12.5: TI uDAPL	Mandatory	PASS
12.6: TI RDMA Basic Interoperability	Mandatory	PASS
12.9: TI MPI – Open	Mandatory	PASS

Report Revision History

- v1.0 Initial Release

Configuration Files

Description	Attachment
Scientific Linux 6.2 Configuration File	
OFED 1.5.4.1 Configuration File	

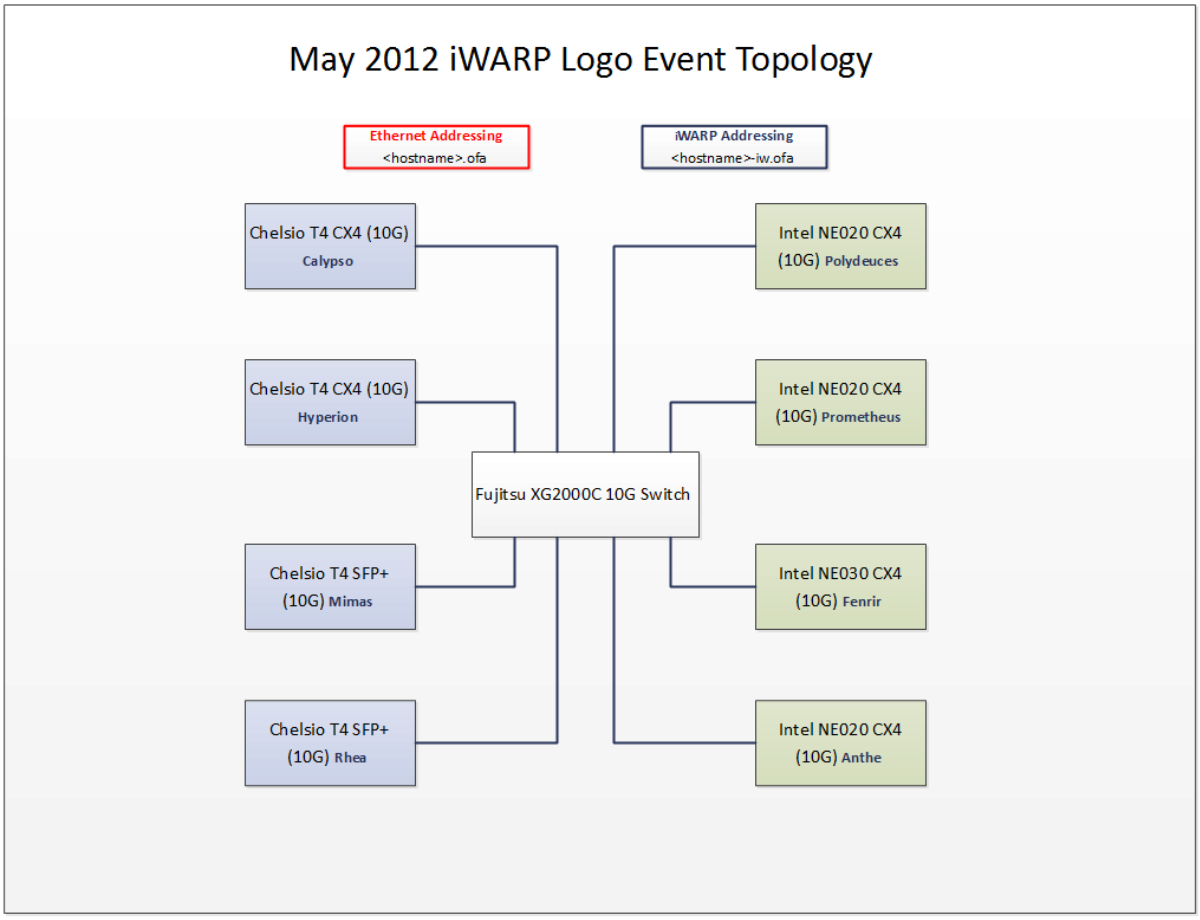
Result Key

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 explination of the situation is included.
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 IW fabric configuration utilized for all testing is shown below.



DUT #1 Details			
Manufacturer:	Chelsio	Firmware Revision:	1.3.10.0,TP0.1.7.0 (SFP+)
Model:	T420-CR	Hardware Revision:	N/A
Speed:	10G	Located in Host:	Mimas, Rhea
Firmware MD5sum:			
Additional Comments / Notes:			

DUT #2 Details			
Manufacturer:	Chelsio	Firmware Revision:	1.3.10.0,TP0.1.7.0 (CX4)
Model:	T420-CX	Hardware Revision:	N/A
Speed:	10G	Located in Host:	Hyperion, Calypso
Firmware MD5sum:			
Additional Comments / Notes:			

Mandatory Tests – IW Device Test Results:

11.1: Ethernet Link Initialization

Test Result	PASS
Result Discussion:	
All devices were shown to link and pass traffic to all other devices in a back-to-back configuration under nominal (unstressed) conditions.	

Link Partner	Chelsio T4	Intel NE020
RNIC: Chelsio T4	PASS	PASS
RNIC: Intel NE020	PASS	PASS

11.2: Ethernet Fabric Initialization

Test Result	Not Tested
Result Discussion:	
Test requires two or more Ethernet switches. Only 1 switch is in the topology, therefore this was not tested.	

11.3: Ethernet Fabric Reconvergence

Test Result	Not Tested
Result Discussion:	
Test requires two or more Ethernet switches. Only 1 switch is in the topology, therefore this was not tested.	

11.4: Ethernet Fabric Failover

Test Result	Not Tested
Result Discussion:	
Test requires two or more Ethernet switches. Only 1 switch is in the topology, therefore this was not tested.	

11.5: iWARP Connectivity

Test Result	Not Available
Result Discussion:	
iWARP Connectivity test tool is not currently compatible with Scientific Linux 6.2 and/or OFED 1.5.4.1, therefore this was not available to be tested.	

12.1: TI iSER

Test Result	Not Tested
Result Discussion:	
There were no iSER targets available in the cluster, therefore this was not tested.	

12.2: TI NFS over RDMA

Test Result	Not Tested
Result Discussion:	
This test is not required for logo certification due to its beta status.	

12.3: TI RDS

Test Result	Not Tested
Result Discussion:	
RDS is not supported by any of the RNICs in the topology, therefore this was not tested.	

12.4: TI SDP

Test Result	Not Tested
Result Discussion:	
Legal restrictions do not allow SDP to be used on iWARP devices, therefore this was not tested.	

12.5: TI uDAPL

Test Result	PASS
Discussion:	
All devices were shown to communicate correctly using DAPL, by use of the linux dapltest tool.	

12.6: TI RDMA Basic Interoperability

Test Result	PASS
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.	

12.9: TI MPI – Open

Test Result	PASS
Discussion:	
Complete heterogeneity; 1 process/system as described in the cluster topology	