



OpenFabrics Alliance

Interoperability Logo Group (OFILG)

May 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

Tom Reu
Chelsio Communications
370 San Aleso Avenue #100
Sunnyvale, CA 94085

Date: June 25, 2013
Report Revision: 1.0
OFED Version: 3.5
OS Version: Scientific Linux 6.3

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 1.47 (2013-Apr-16) was used.

<http://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).

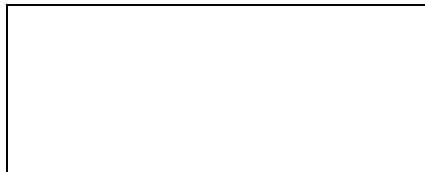
Test Procedures	IWG Test Status	Result/Notes
12.1: Ethernet Link Initialization	Mandatory	PASS
13.1: TI iSER	Beta	Not Available
13.2: TI NFS over RDMA	Beta	Not Available
13.4: TI uDAPL	Mandatory	PASS
13.5: TI RDMA Basic Interoperability	Mandatory	PASS
13.6: TI RDMA Stress	Mandatory	Not Available
13.7: 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 May 21, 2013

Nathan Landolt

nlandolt@iol.unh.edu



Review Completed June 25, 2013

Edward Mossman

emossman@iol.unh.edu

Result Summary

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

Test Procedures	IWG Test Status	Result/Notes
12.1: Ethernet Link Initialization	Mandatory	PASS
13.1: TI iSER	Beta	Not Available
13.2: TI NFS over RDMA	Beta	Not Available
13.4: TI uDAPL	Mandatory	PASS
13.5: TI RDMA Basic Interoperability	Mandatory	PASS
13.6 TI RDMA Stress	Mandatory	Not Available
13.7: TI MPI – Open	Mandatory	PASS

Digital Signature Information

This document was created using an Adobe digital signature. A digital signature helps to ensure the authenticity of the document, but only in this digital format. For information on how to verify this document's integrity proceed to the following site:

<http://www.iol.unh.edu/certifyDoc/>



If the document status still indicates "Validity of author NOT confirmed", then please contact the UNH-IOL to confirm the document's authenticity. To further validate the certificate integrity, Adobe 6.0 or later should report the following fingerprint information:

MD5 Fingerprint: 16 16 87 29 8D 1D 3C A4 1E 95 EE 03 7B 1B 2B 7D
SHA-1 Fingerprint: 48 9E 57 F1 09 34 9A DA 39 4C 82 16 11 6B 11 AE 1E 4D 3B 7E

Report Revision History

- v1.0 Initial Release

Configuration Files

Description	Attachment
Scientific Linux 6.3 Configuration File	
OFED 3.5 Configuration File	

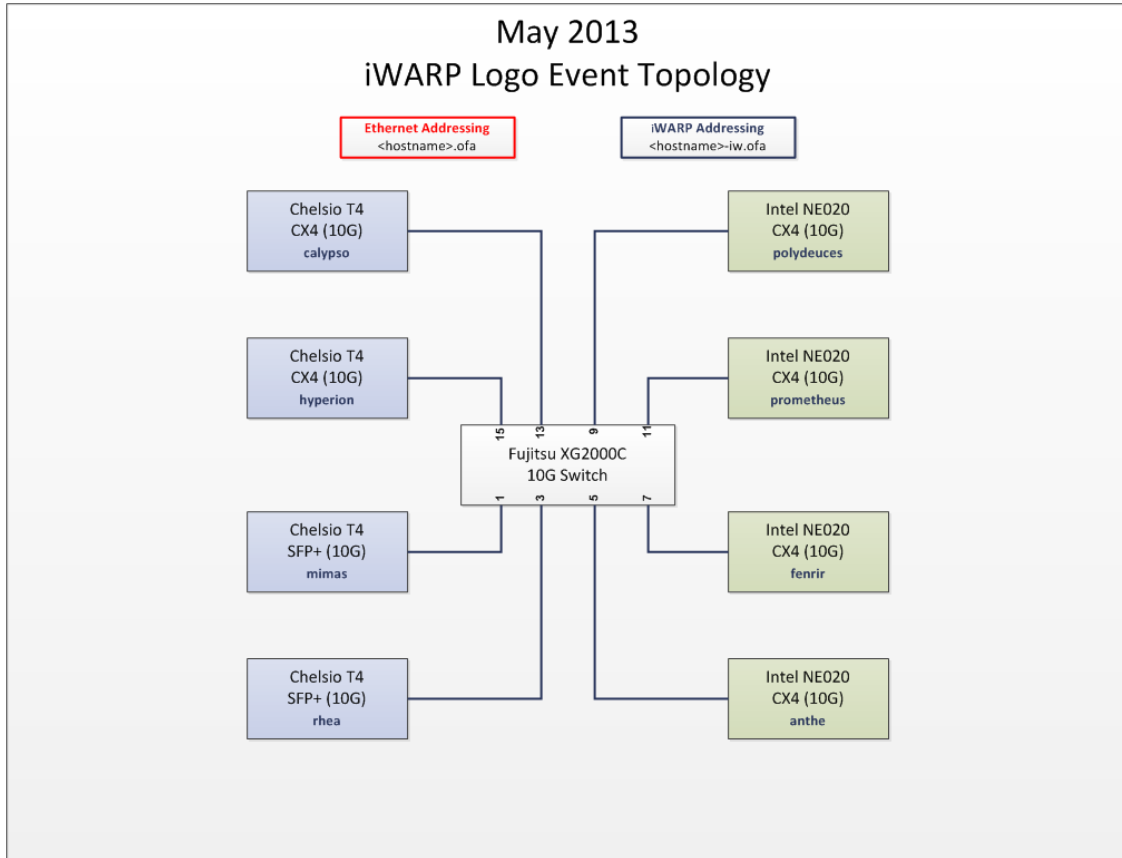
Result Key

The following table contains possible results and their meanings:

Result:	Description:
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.
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
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
Additional Comments / Notes:			

Mandatory Tests – IW Device Test Results:

12.1: 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

13.1: TI iSER

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

13.2: TI NFS over RDMA

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

13.4: TI uDAPL

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

13.5: 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.	

13.6: TI RDMA Stress

Test Result	Not Tested
Discussion:	
This test requires two or more Ethernet switches in the cluster topology. Due to cluster limitations, this test could not be performed.	

13.7: TI MPI – Open

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