



OpenFabrics Alliance

Interoperability Working Group (OFA-IWG)

April 2007 Interoperability Event Report

UNH-IOL – 121 Technology Drive, Suite 2 – Durham, NH 03824 – +1-603-862-0090
 OFILG – ofalab@iol.unh.edu – +1-603-862-5083

Bob Dugan
 Chelsio Communications
 370 San Aleso Avenue, #100
 Sunnyvale CA 94085

May 22, 2007
 Report Rev1.0

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

Chelsio Communications R310E-CX Single-port 10G CX4 PCIe RNIC

The test suite referenced in this report is available at the OFA website, at test time release 1.10 (April 10, 2007) was used:

<http://www.openfabrics.org/docs/InteropTestPlan.pdf> <http://www.iol.unh.edu/services/testing/ofa/testplan.pdf>

Test Procedure	IWG Test Status	Result/Notes
IWARP Connectivity	Mandatory	Passed – no issues seen
TI iSER	Beta	Not available for test
TI SDP	Beta	Not available for test
TI MPI - OSU	Beta	Not tested due to time constraints of test period
TI MPI - Intel	Beta	Not tested due to time constraints of test period
TI uDAPL	Beta	Passed – no issues seen

For specific details regarding issues please see the corresponding test result.

Testing Completed 4/20/2007

Mikkel Hagen
<mailto:mhagen@iol.unh.edu>

Review Completed 5/22/2007

Bob Noseworthy
<mailto:ren@iol.unh.edu>

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 should report the following fingerprint information:

MD5 Fingerprint: A303 D24B 3F7D 0E0D 27F2 B8BC 5FA0 1FC6

SHA-1 Fingerprint: 7BD1 A2EE 89DC AB98 2E32 F36A A9E6 E865 A0EE 88EE

Report Revision History

v1.0 Initial Release

Table 1: Result Key

The following table contains possible results and their meanings:

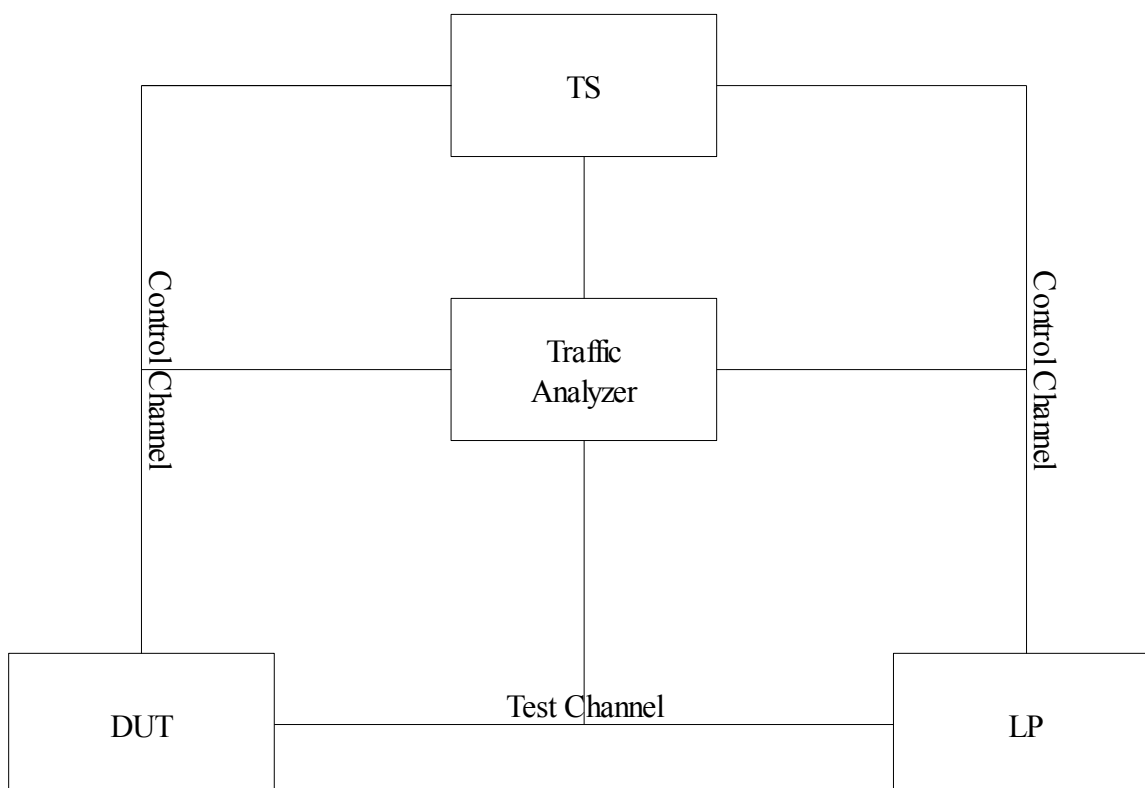
Result:	Description:
PASS	The Device Under Test (DUT) was observed to exhibit conformant behavior.
PASS with Comments	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included, such as due to time limitations only a portion of the testing was performed.
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 specified parameters are valid at one extreme and invalid at the other.
Not Tested	Not tested due to the time constraints of the test period.

Table 2: DUT and Test Setup Information

The following test equipment were used in testing:

Test Equipment	Brand and Version Information
Software	UNH-IOL Interop Tool v1.1
Traffic Analyzer	Wireshark
Traffic Analyzer	Finisar X-Gig Analyzer


Figure 1: The network configuration utilized is shown below. Control Channel carries PULP traffic, Test Channel carries RDMA traffic.



DUT #1 Details			
Manufacturer	Chelsio Communications	Firmware Rev	3.3.0
Model	R310E-CX	Hardware Rev	3
Speed	10Gbps	Driver Version	OFED 1.2 041607-0928
Additional Comments/Notes			
Device Under Test (DUT): Chelsio Communications Single-port 10G CX4 PCIe RNIC			
Link Partner (LP): NetEffect NE020			

Mandatory Tests - iWARP Device Test Summary Results:

The following tables detail results for tests identified by the OFA-IWG as mandatory tests for the OFA Interoperability Logo Program (OFILP) per the OFA-IWG Interoperability Test Plan Release 1.10 (April 10, 2007)

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 11: iWARP Connectivity	Test #1-8	No issues observed	PASS
Discussion: Test #1-8			
For result details for this set of tests, please refer to the embedded UNH-IOL iWARP Consortium report provided below:			
			

Beta Tests - iWARP Device Test Results:

The following table details results for tests identified by the OFA-IWG as beta tests for the OFA Interoperability Logo Program (OFILP) per the OFA-IWG Interoperability Test Plan Release 1.10 (April 10, 2007)

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 4: TI iSER	Test #1-5	No supporting devices available	Refer to Comments
Discussion: Test Results			
These beta tests could not be performed as no iSER Target devices were available during the testing period.			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 6: TI SDP	Test #1-3	Not Applicable to DUT	Not Applicable
Discussion: Test #1-4			
These beta tests could not be performed as SDP for iWARP devices is not yet available.			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 8: TI MPI – Ohio State University	Test #1-14	Not tested due to lack of time	Not Available
Group 9: MPI – Intel MPI	Test #1-21	Not tested due to lack of time	Not Available
Discussion: Test Results			
Lack of testing time during the testing period prevented execution of these tests.			

Test Number and Name	Part(s)	Summary Note(s)	Result(s)
Group 10: TI uDAPLTEST Commands	Test #1-10	No issues observed	PASS
Discussion: Test Results			
The tests identified in OFA Test Plan 1.10 were performed using the switch-only configuration as shown in Figure 1. All tests completed as expected – no issues with daplttest were observed during the testing period.			