



# OpenFabrics Alliance

## Interoperability Logo Group (OFILG)

### December 2011 Logo Event Report

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Date: March 8, 2011  
Report Revision: 2.0  
OFED Version: 1.5.4  
OS Version: Scientific Linux 6.1

Enclosed are the results from OFA Logo testing performed on the following devices under test (DUTs):  
*Intel NE0200101E3CX0104 CX4 RNIC*

The test suite referenced in this report is available at the IOL website. Release 1.4 (2011-Oct-25) was used.

[http://www.iol.unh.edu/services/testing/ofa/testsuites/OFA-IWG\\_Interoperability\\_Test\\_Plan-v1.40.pdf](http://www.iol.unh.edu/services/testing/ofa/testsuites/OFA-IWG_Interoperability_Test_Plan-v1.40.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
<a href="#">11.1: Link Initialization</a>	Mandatory	PASS
<a href="#">11.5 iWARP Connectivity</a>	Mandatory	Not Available
<a href="#">12.5: TI uDAPL</a>	Mandatory	PASS
<a href="#">12.6: TI RDMA Basic Interop</a>	Mandatory	PASS
<a href="#">12.11: TI MPI – Open</a>	Mandatory	PASS
<a href="#">12.12: TI MPI – OSU</a>	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 5 Jan, 2012

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Review Completed 8 Mar, 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
<a href="#">11.1: Link Initialization</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">11.2: Fabric Initialization</a>	Beta	Not Tested
<a href="#">11.3: Ethernet Fabric Reconvergence</a>	Beta	Not Tested
<a href="#">11.4: Ethernet Fabric Failover</a>	Beta	Not Tested
<a href="#">11.5: iWARP Connectivity</a>	<b>Mandatory</b>	Not Available
<a href="#">12.1: TI iSER</a>	Beta	Not Tested
<a href="#">12.2: TI NFS over RDMA</a>	Beta	Not Tested
<a href="#">12.3: TI RDS</a>	Beta	Not Supported
<a href="#">12.4: TI SDP</a>	Beta	Not Supported
<a href="#">12.5: TI uDAPL</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">12.6: TI RDMA Basic Interop</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">12.10: TI MPI – Intel</a>	Beta	Not Tested
<a href="#">12.11: TI MPI – Open</a>	<b>Mandatory</b>	<b>PASS</b>
<a href="#">12.12: TI MPI – OSU</a>	<b>Mandatory</b>	<b>PASS</b>

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## Report Revision History

- v1.0 Initial Release
- v2.0 Revised RDMA Basic Interop results due to arbitration.

## Configuration Files

Description	Attachment
Scientific Linux 6.1 Configuration File	
OFED 1.5.4 Configuration File	

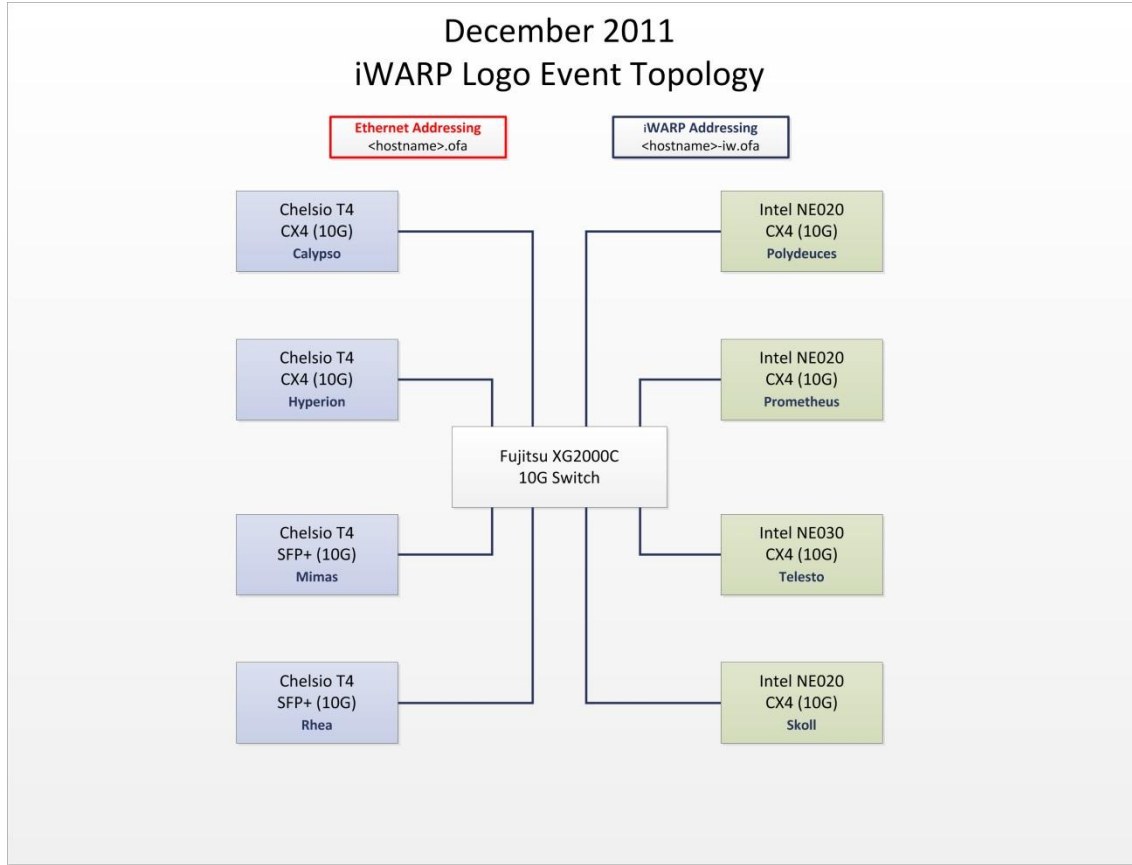
## Result Key

The following table contains possible results and their meanings:

Result:	Description:
<b>PASS</b>	The Device Under Test (DUT) was observed to exhibit conformant behavior.
<b>PASS with Comments</b>	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included.
<b>FAIL</b>	The DUT was observed to exhibit non-conformant behavior.
<b>Warning</b>	The DUT was observed to exhibit behavior that is not recommended.
<b>Informative</b>	Results are for informative purposes only and are not judged on a pass or fail basis.
<b>Refer to Comments</b>	From the observations, a valid pass or fail could not be determined. An additional explanation of the situation is included.
<b>Not Applicable</b>	The DUT does not support the technology required to perform this test.
<b>Not Available</b>	Due to testing station limitations or time limitations, the tests could not be performed.
<b>Borderline</b>	The observed values of the specific parameters are valid at one extreme and invalid at the other.
<b>Not Tested</b>	Not tested due to the time constraints of the test period.

# DUT and Test Setup Information

Figure 1: The IW fabric configuration utilized for all testing is shown below.



DUT Details			
Manufacturer:	Intel	Firmware Revision:	3.23
Model:	NE020	Hardware Revision:	N/A
Speed:	10G	Located in Host:	Skoll, Telesto, Polydeuces, Prometheus
Firmware MD5sum:			
Additional Comments / Notes:			

# Mandatory Tests – IW Device Test Results:

## 11.1: Ethernet Link Initialization

<b>Test Result</b>	<b>PASS</b>
<b>Result Discussion:</b>	
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	<b>PASS</b>	<b>PASS</b>
RNIC: Intel NE020		<b>PASS</b>

## 11.2: Ethernet Fabric Initialization

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

## 11.3: Ethernet Fabric Reconvergence

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

## 11.4: Ethernet Fabric Failover

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

## 11.5: iWARP Connectivity

<b>Test Result</b>	<b>Not Available</b>
<b>Result Discussion:</b>	
iWARP Connectivity test tool is not currently compatible with Scientific Linux 6.1 and/or OFED 1.5.4, therefore this was not available to be tested.	

## 12.1: TI iSER

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

### 12.2: TI NFS over RDMA

<b>Test Result</b>	<b>Not Tested</b>
<b>Result Discussion:</b>	
This test is not required for logo certification due it its beta status.	

### 12.3: TI RDS

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

### 12.4: TI SDP

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

### 12.5: TI uDAPL

<b>Test Result</b>	<b>PASS</b>
<b>Discussion:</b>	
All devices were shown to communicate correctly using DAPL, by use of the linux daplttest tool.	

### 12.6: TI RDMA Basic Interoperability

<b>Test Result</b>	<b>PASS</b>
<b>Discussion:</b>	
All devices were shown to correctly complete small and large RDMA Read and Write operations. This test was conducted by use of the rdma_bw tool.	

### 12.7: TI RDMA Stress

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

### 12.8: TI MPI – Intel

<b>Test Result</b>	<b>Not Tested</b>
<b>Result Discussion:</b>	
This test is not required for logo certification due it its beta status.	

**12.9: TI MPI – Open**

<b>Test Result</b>	<b>PASS</b>
<b>Discussion:</b>	
Systems Configured with SL6.1 and OFED 1.5.4 GA	

**12.10: TI MPI – OSU**

<b>Test Result</b>	<b>PASS</b>
<b>Discussion:</b>	
Systems Configured with SL6.1 and OFED 1.5.4 GA	