



OpenFabrics Alliance

Interoperability Logo Group (OFILG)

February 2013 Logo Event Report

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Date: April 2, 2013
Report Revision: 1.0
OFED Version: 1.5.3.1
OS Version: SUSE Linux
Enterprise Server
11sp2

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

OneConnect 141002

The test suite referenced in this report is available at the IOL website. Release 1.46 (2012-Dec-17) was used.

<https://www.iol.unh.edu/ofatestplan>

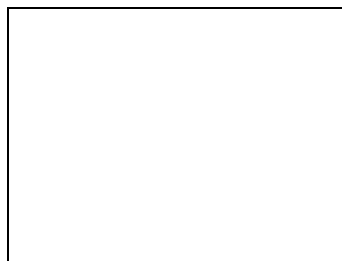
The following table reflects the results of tests performed during the February 2013 Logo Event. This is the first Logo Event in which RoCE tests has been performed; as per the OFILG charter, these tests need to have beta status for a minimum of one Logo Event before they can be considered mandatory.

Test Procedures	IWG Test Status	Result/Notes
12.2: RoCE Link Initialization	Beta	PASS
13.4: TI uDAPL	Beta	PASS
13.7: TI MPI – Open	Beta	PASS with Comments

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 March 21, 2013

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Review Completed April 4, 2013

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Result Summary

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

Test Procedures	IWG Test Status	Result/Notes
12.2: RoCE Link Initialization	Beta	PASS
13.1: TI iSER	Beta	Not Tested
13.2: TI NFS over RDMA	Beta	Not Tested
13.3: TI RDS	Beta	Not Tested
13.4: TI uDAPL	Beta	PASS
13.5: TI RDMA Basic Interop	Beta	Not Tested
13.6 TI RDMA Stress	Beta	Not Tested
13.7: TI MPI – Open	Beta	PASS with Comments

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Report Revision History

- v1.0 Initial Release

Configuration Files

Description	Attachment
SUSE Linux Enterprise Server 11sp2 Configuration File	Preconfigured servers were supplied for this test event.
OFED 1.5.3.1 Configuration File	

Result Key

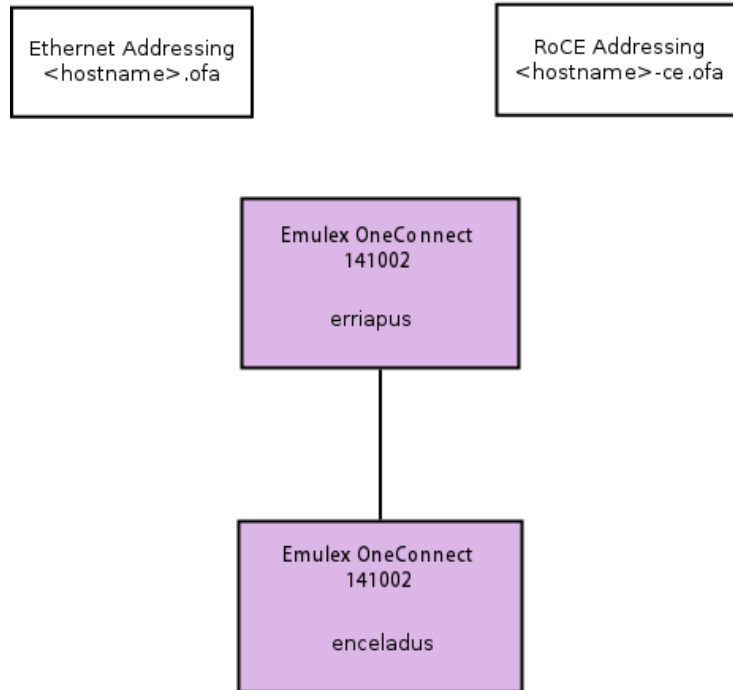
The following table contains possible results and their meanings:

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 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

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

February 2013 RoCE Logo Event Topology



DUT Details			
Manufacturer:	Emulex	Firmware Revision:	10.0.407.23
Model:	OneConnect 141002	Hardware Revision:	A0
Speed:	10G	Located in Host:	enceladus, erriapus
Firmware MD5sum:	c27798d7ca05a69cac2b8708b9e051d5		
Additional Comments / Notes:			

Beta Tests – RoCE Device Test Results:

12.2: RoCE Link Initialization

Test Result	PASS
Result Discussion:	
All RoCE Channel Adapters were observed to link at the expected speed.	

Link Partner	OneConnect 141002
RNIC: OneConnect 141002	PASS

13.1: TI iSER

Test Result	Not Tested
Result Discussion:	
There were no iSER targets available in the cluster; therefore this test could not be performed.	

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.	

13.3: TI RDS

Test Result	Not Tested
Result Discussion:	
RDS is not supported by any of the RCAs in the topology; therefore this test was not able to be completed.	

13.4: TI uDAPL

Test Result	PASS
Discussion:	
This result only represents the outcomes of Group 1 tests, which we were limited to due to the current topology.	

13.5: TI RDMA Basic Interoperability

Test Result	Not Tested
Discussion:	
This test could not be performed due to a lack of DCB switches in the current topology.	

13.6: TI RDMA Stress

Test Result	Not Tested
Discussion:	
This test could not be performed due to a lack of DCB switches in the current topology.	

13.7: TI MPI – Open

Test Result	PASS with Comments
Discussion:	
<p>The MPI command as defined by the test plan is as follows:</p> <pre>/usr/mpi/gcc/openmpi-1.4.3/bin/mpirun -np 2 -hostfile /root/cluster -mca btl_openib_receive_queues P,65536,120,64,32 -mca btl openib,self,sm -mca pml obl -mca btl_openib_flags 306 /usr/mpi/gcc/openmpi-1.4.3/tests/IMB-3.2/IMB-MPI1</pre> <p>However, Intel MPI benchmark tests were only able to complete successfully while using rdmacm:</p> <pre>/usr/mpi/gcc/openmpi-1.4.3/bin/mpirun -np 2 -hostfile /root/cluster -mca btl_openib_receive_queues P,65536,120,64,32 - mca btl openib,self,sm -mca pml obl -mca btl_openib_flags 306 -- mca btl_openib_cpc_include rdmacm /usr/mpi/gcc/openmpi- 1.4.3/tests/IMB-3.2/IMB-MPI1</pre>	