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

**Intel NE020 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)

<table>
<thead>
<tr>
<th>Test Procedures</th>
<th>IWG Test Status</th>
<th>Result/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1: Ethernet Link Initialization</td>
<td>Mandatory</td>
<td>PASS</td>
</tr>
<tr>
<td>11.2: Ethernet Fabric Initialization</td>
<td>Mandatory</td>
<td>Not Available</td>
</tr>
<tr>
<td>11.5: iWARP Connectivity</td>
<td>Mandatory</td>
<td>Not Available</td>
</tr>
<tr>
<td>12.5: TI uDAPL</td>
<td>Mandatory</td>
<td>PASS</td>
</tr>
<tr>
<td>12.6: TI RDMA Basic Interoperability</td>
<td>Mandatory</td>
<td>PASS</td>
</tr>
<tr>
<td>12.9: TI MPI – Open</td>
<td>Mandatory</td>
<td>PASS</td>
</tr>
</tbody>
</table>

Summary of all results follows on the second page of this report.
For Specific details regarding issues, please see the corresponding test result.
# Result Summary

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

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

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Report Revision History

- v1.0 Initial Release

Configuration Files

<table>
<thead>
<tr>
<th>Description</th>
<th>Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Linux 6.2 Configuration File</td>
<td></td>
</tr>
<tr>
<td>OFED 1.5.4.1 Configuration File</td>
<td></td>
</tr>
</tbody>
</table>

Result Key

The following table contains possible results and their meanings:

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

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

<table>
<thead>
<tr>
<th>DUT Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer: Intel</td>
</tr>
<tr>
<td>Model: NE020</td>
</tr>
<tr>
<td>Speed: 10G</td>
</tr>
<tr>
<td>Firmware MD5sum: 5068f6c55b664869478235dabab32e09</td>
</tr>
<tr>
<td>Additional Comments / Notes:</td>
</tr>
</tbody>
</table>
Mandatory Tests – IW Device Test Results:

11.1: Ethernet Link Initialization

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Chelsio T4</th>
<th>Intel NE020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>PASS</td>
<td>PASS</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Link Partner</th>
<th>Chelsio T4</th>
<th>Intel NE020</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNIC: Chelsio T4</td>
<td>PASS</td>
<td>PASS</td>
</tr>
<tr>
<td>RNIC: Intel NE020</td>
<td>PASS</td>
<td>PASS</td>
</tr>
</tbody>
</table>

11.2: Ethernet Fabric Initialization

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Available</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
</table>

Result Discussion:
There were no iSER targets available in the cluster, therefore this was not tested.
### 12.2: TI NFS over RDMA

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td></td>
</tr>
</tbody>
</table>

**Discussion:**
This test is not required for logo certification due to its beta status.

### 12.3: TI RDS

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td></td>
</tr>
</tbody>
</table>

**Discussion:**
RDS is not supported by any of the RNICs in the topology, therefore this was not tested.

### 12.4: TI SDP

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Not Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td></td>
</tr>
</tbody>
</table>

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

### 12.5: TI uDAPL

<table>
<thead>
<tr>
<th>Test Result</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

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

### 12.6: TI RDMA Basic Interoperability

<table>
<thead>
<tr>
<th>Test Result</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

**Discussion:**
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.

### 12.9: TI MPI – Open

<table>
<thead>
<tr>
<th>Test Result</th>
<th>PASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

**Discussion:**
Systems Configured with SL6.2 and OFED 1.5.4.1 GA