

OFA IWG meeting – 2/21/2012

Attendees

| First | Last | Company | 01/10/12 | 01/24/12 | 02/07/12 | 02/21/12 |
|---------|---------------|---------------------|----------|----------|----------|----------|
| Chris | Calandro | Chelsio | X | X | X | |
| Tom | Reu | Chelsio | | | | |
| Martin | Schlining | DataDirect Networks | X | | | X |
| Pradeep | Satyanarayana | IBM | | X | X | |
| Harry | Cropper | Intel | X | X | X | X |
| Jim | Ryan | Intel | X | X | X | X |
| Slava | Pekelis | Mellanox | X | | X | |
| Mitko | Haralanov | QLogic | X | X | X | X |
| Jess | Robel | QLogic | X | X | X | X |
| Rupert | Dance | Software Forge | X | X | X | X |
| Bill | Boas | System Fabric Works | X | | X | |
| Chris | Hutchins | UNH-IOL | X | X | X | X |
| Edward | Mossman | UNH-IOL | X | X | | |
| Bob | Noseworthy | UNH-IOL | | | X | X |
| Nick | Wood | UNH-IOL | X | X | X | X |
| Jim | Hunter | Unisys | | | | |
| Bill | Weber | Unisys | X | X | X | |

2012 Events

- [IBTA PF 21](#) 04/16→04/20/2012
- [OFA Interop Debug Event](#) 04/23→04/27/2012
- IBTA PF 22 10/15→10/19/2012
- OFA Interop Debug Event 10/22→10/26/2012

OFED Status

- OFED 1.5.4: GA - released December 5th
- OFED 15.4.1 GA - released Feb 2nd 2012
- OFED 3.2 - Work is underway and will be in synch with Kernel version 3.2
- We will use OFED 1.5.4.1 GA for the April Interop event

December 2012 - OFA Interop GA Event - Arbitration Status

- Deadline for [Arbitration Submission](#): Friday 2/3/2012
- Arbitration resolution: Friday 2/27/2012
- There have been a number of arbitration requests submitted and they are all being reviewed by the committee. We are also actively working with the vendors involved to resolve the technical issues.

Preparations for the April 2012 Interop event

RoCE – possible inclusion in April 2012 event

- 1) Mellanox hardware
- 2) Software Version of RoCE from System Fabric Works
- 3) Emulex

OFILP – Logo Program updates

- 1) Create Logo with version or change Logo Guidelines so it does not require a version
- 2) Check with EWG and XWG about the distribution of OFED Binaries
- 3) Incorporate ICR into Logo Program

Test Plan

- 1) RDMA Basic Interop Issue
 - a) There seems to be an issue with the OFED utility rdma-bw which is used during the RDMA Basic Interop Tests for iWARP. We have not been able to isolate the problem but we have used the client server programs developed for the OFA Training programs by Dr Russell. So we need to decide if we should try and fix the OFED utility or contribute the OFA Training code to OFED.
 - b) The RDMA Interop test uses different utilities for IB and iWARP so this has not been a problem for IB.
 - c) Harry has asked if we can make the code available to Intel. Rupert explained that the Programming code is IP owned by the OFA and is not a part of OFED. So we would need to get permission from the XWG to do this.
- 2) Link INIT updates
 - a) We need to more firmly establish the parameters for passing and failing this test. Right now, Nick explains that if it links once it is a pass no matter how many times it fails
 - b) Bob questions whether or not we want to judge one failure as a fail of the Link INIT test. If that becomes the policy, what do we do about Lossy ports and Marginal cables?
 - c) OFA UNH-IOL - Bob
 - i) He can't tell difference between worn out port and a Signal Integrity issue on a port. Could be cable out of spec. Is the port bad or the cable bad?
 - ii) Bob asks whether it is time to require compliance as a pre-requisite for acceptance on the OFA Logo List.
 - iii) Marty
 - (1) The box uses compliant parts to begin with – why should a vendor like DDN or NetApp be required to do compliance testing again for products that have been tested?
 - (2) Rupert explains that functionality can change dramatically because of firmware updates. Therefore we always re-test HCAs and switches if there has been any change on software or firmware.
 - d) Bob – we need to decide before the next events.
- 3) iWARP test Status – we reviewed the plans and agreed to make the following tests Mandatory for April 2012

| Ethernet Transport - Test Status for April 2012 Interop Event | |
|---------------------------------------------------------------|-----------|
| Test Procedures | Linux |
| Ethernet Link Initialize | Mandatory |
| Ethernet Fabric Initialize | Mandatory |
| Ethernet Fabric Failover | Beta |
| Ethernet Fabric Re-convergence | Beta |
| iWARP Connectivity | Mandatory |
| Transport Independent Tests | Linux |
| TI iSER | Beta |
| TI NFS over RDMA | Beta |
| TI RDS | Beta |
| TI SDP | Beta |
| TI uDAPL | Mandatory |
| TI RDMA Interop | Mandatory |
| TI RDMA Stress Test | Mandatory |
| TI MPI - Intel | Beta |
| TI MPI - Open MPI | Mandatory |
| TI MPI - OSU - MVAPICH 2 | Mandatory |

Opens

Bob – Tri-Labs access to cluster

- 1) Bob asks about the status of large scale testing at LNL. Rupert explained that Matt Leininger from LLNL has suggested that he may be able to provide access to the 1000 node Hyperion cluster which is no longer used for production work. Rupert and Nick will try and firm up this opportunity at the OFA Workshop.
- 2) This opportunity could add value to the Logo Program and allow us to develop new tests for OFED and winOFED and operating systems. This is a more of a benefit for the development and validation of OFED.
- 3) Jim says we can follow up with Matt
 - a) We can only work with mainline Distros. Matt has explained that they are a RHEL shop and they would not allow us to push difference Oss or quite likely different versions of OFED onto this cluster.
 - b) This could be good for involving Distros
- 4) We would have no hardware access so we may not be able to test SRP targets But it validates that software can support thousands of nodes.

Master Reports

- 1) We discussed the creation of the master reports and that we had scheduled meetings with RHEL and SUSE for the following week to discuss the results.
- 2) We have invited them both to come to the OFA Workshop and hope that they will be part of a panel discussion.

How can Logo Program Improve - Bob

Bob challenged the group to come to the next meeting with more ideas on how the Logo [program can improve. Some suggestions he made

- 1) Improve and enhance the test Environment
- 2) Add new Technologies
- 3) How are we messaging and how can improve
- 4) Add to this topic to the Workshop meeting

Action Requests (ARs)

Group 2/21/2012

- 1) Review the Logo Program and prepare updates for the next meeting.
- 2) Review the Test Plan and prepare updates for the next meeting.

Nick

10/11/2011

- 1) Need fail and pass criteria in Link Init procedure
 - a) LED
 - b) Link Width
 - c) Link Speed
 - d) No crashes
 - e) Etc

10/04/2011

- 1) Jess requests that the Link Init and other tests have the pass/fail criteria spelled out in a table – for example what happens if LED only comes up on one device.
- 2) Need to write up an explanation of the table and where the devices must be applied

Nick

Update IOL Website

Rupert Dance

7/5/2011

- 1) Update Logo Program document to include OFA Policy regarding OFILG Membership and granting of the Logo

3/1/2011

- 1) Check with EWG and XWG about the distribution of OFED Binaries – [in process as of 5/2/2011](#)

2/15/2011

- 1) Create Logo with version or change Logo Guidelines

8/31/2010

- 1) Incorporate ICR into Logo Program