

## OFA IWG meeting – 2/26/2013

### Attendees

First	Last	Company	01/15/13	01/29/13	02/12/13	02/26/13
Samantha	Jian-Pielak	Canonical	X	X	X	
Tom	Reu	Chelsio			X	X
Martin	Schlining	DataDirect Networks	X	X	X	X
Alex	Nicholson	Emulex			X	X
Brad	Benton	IBM			X	X
Pradeep	Satyanarayana	IBM			X	X
Harry	Cropper	Intel	X	X	X	X
Mitko	Haralanov	Intel	X	X	X	X
Jess	Robel	Intel	X	X	X	X
Jim	Ryan	Intel				
Guy	Ergas	Mellanox				X
Yevgeny	Petrilin	Mellanox				
Rupert	Dance	Software Forge		X	X	X
Glenn	Martin	UNH-IOL	X	X		
Edward	Mossman	UNH-IOL	X	X	X	X
Bob	Noseworthy	UNH-IOL		X	X	
Nate	Rubin	UNH-IOL	X	X	X	X

### 2013 Events

#### April 2013 dates

- [IBTA PF23](#) 04/01 → 04/12/2013
- [OFA April Interop Debug Event](#) 04/08 → 04/12/2013

#### October 2013

- IBTA PF24 10/07 → 10/18/2013
- OFA Interop Debug Event 10/14 → 10/18/2013

#### OFA Conferences – Monterey California

- [OFA User Conference](#) 04/18 → 04/19/2013
- [OFA Developer Workshop](#) 04/21 → 04/23/2013
- **Early Bird Deadline** 03/15/2013

#### IBTA Plugfest 22 results are available here:

[http://www.infinibandta.org/content/pages.php?pg=integrators\\_list\\_overview](http://www.infinibandta.org/content/pages.php?pg=integrators_list_overview)

### OFA EWG Status

- OFED 3.5 RC6 Released 01/29/2013
- OFED 3.5 GA Released 02/14/2013
- OFED 3.5.1 Planned Support for RHEL 6.4

### **OFED 3.5 Interop GA Event status**

- 1) The OFA Cluster is in dire need of new QSFP Cables that have been listed on the IBTA Integrators' List for PF22. Here is a list of devices in the cluster that need to have FDR capable cables
  - a) 4 FDR HCA to be tested
  - b) 2 FDR Switches
  - c) 1 FDR SRP
  - d) Many FDR → QDR links
- 2) There are also many other QDR links that need to be upgraded with the latest PF22 cables.
- 3) Here is the list of cables needed to fully upgrade the cluster
  - a) **FDR** cables needed:
    - i) **Quantity:** 35
    - ii) **Length:** 3-5 meters
    - iii) **Type:** Copper or AOC
  - b) **QDR** cables needed:
    - i) **Quantity:** 25
    - ii) **Length:** 3-5 meters
    - iii) **Type:** Copper or AOC
- 4) Rupert has agreed to take the AR to try and secure the necessary cables. Edward thanks him for this effort
- 5) Edward wants to begin testing Thursday 2/28/2013 at 8:00 and so he is asking that vendors get their hardware and firmware ready for testing.

### **OFED 3.5.1 or OFED 3.8**

- 1) The latest Linux kernel is 3.9 and so the next full release of OFED would be 3.9 or greater.
- 2) There is a lot of support for building a point release 3.5 which would be 3.5.1. This would allow us to include Emulex and IBM drivers

### **Comments from the group**

- 1) Guy Ergas says he is not the right person but Yevgeny Petrilin, who is one of the new liaisons for the OFA IWG, will review and comment.
- 2) Brad is supportive

### **RoCE status**

#### **Brad Benton - IBM**

- 1) The server hardware is in transit and squared away – 2U box. They will still need to send an adapter . The adapter may be a problem.
- 2) There are new bring up sequences but he has a video on how to bring up a PowerPC and will be ready in a week or so.
- 3) RHEL 6.3 is preloaded - OFED 3.5 should work.
- 4) He does not have a switch to supply for the April 2013 event but will continue to work on it.
- 5) ConnectX2 RoCE adapter should be run at 10 GbE and not 40 GbE
- 6) Heterogeneous Interop is OK

#### **Alex – Emulex**

- 1) He is still working on a switch and hopes to be able to work with a partner.
- 2) Currently there are no new drivers but there will be an updated driver for the April 2013 event.
- 3) Heterogeneous Interop is OK
- 4) Alex understands that for the current Interop GA Event that it will produce Beta testing and reports.

## Future Plans for RoCE testing - Brad

- 1) RDMA CM across heterogeneous – x86 and PowerPC
  - a) PowerPC – 4 weeks
  - b) They have started the process of creating suggested updates and they will produce a bulleted list of things they would like to see. He would like to review them first during the OFA IWG meeting and then include them in an updated version of the Interop Test Plan (1.4.7)
- 2) He wants to stress test the devices with Ethernet traffic while concurrently doing RDMA operations. This will test to see if the drivers handle traffic of different types.
  - a) More confidence in traffic support
  - b) Bob – using ETS has not been implemented. He thinks we could use Iometer.
    - i) Loading 40 GbE link could be tough. 10 GbE is easy. We need to validate more than just the end station and we can saturate the link if we have a lot of switch vendors.
- 3) Brad says that IBM had an internal meeting and they are interested in the following things:
  - a) Interested in IP v6
  - b) Bonding with RoCE CA
  - c) VLAN compatibility and taking bytes for GID. Not sure what support there is for this.

## Opens

- 1) Brad
  - a) **RSockets**: what are the plans for testing in April 2013
    - i) This ULP has been out for a while and so he would like to see us include testing during this debug event which could help to harden the implementation.
    - ii) This should have priority
  - b) **SMC-R**: They will continue to pursue SMC-R at the Enterprise level but it is not really out there to test
    - i) They have contacted Sean and have some compatibility so can share as needed. But no merge.
    - ii) Somebody from mainframe group will be presenting updates on this.

## Action Requests (ARs)

### Rupert Dance

**2/26/2013**

- 1) Secure 50-60 new cables to get the OFA Cluster up and ready for GA testing – done 2/28/2013
- 2) OpenFabrics Interoperability Logo Program Changes
- 3) Contact Sean Hefty about Rsockets and SDP

**1/29/2013**

- 1) Check with Mellanox regarding the state of their firmware updates and the readiness to do GA testing
- 2) Discuss with the EWG and determine what are next OFED release
- 3) Get Brad Benton of IBM and Emulex to join next meeting – done 2/12/2013

**12/04/2012**

- 1) Log SRP bug with RedHat

### Older

- 1) Update Logo Program to include OFA Policy regarding OFILG Membership and granting of the Logo
- 2) Check with EWG and XWG about the distribution of OFED Binaries
- 3) Create Logo with version or change Logo Guidelines – see 4/3/2012 minutes
- 4) Incorporate ICR into Logo Program

### UNH-IOL

**2/26/2013**

**Edward:** OFA April Interop Debug Event - need updated link on UNH-IOL website – done 2/27/2013

**2/14/2013**

**Bob Noseworthy:** do you have contacts for IBM within DCB. Bob will check with Blade Networks as well.

**12/04/2012 - Nate**

- 1) The RoCE test plan currently does not reflect the additional tests that we performed (uDAPL and MPI).

**10/9/2012**

- 1) **Nate:** verify that rping works for RoCE as well as iWARP
- 2) IOL Check the OpenMPI commands for RoCE