

OFA IWG meeting – 2/11/2014

Attendees

First	Last	Company	12/17/13	01/14/14	01/28/14	02/11/14
Troy	Leedberg	Chelsio				
Martin	Schlining	DataDirect Networks		X	X	
Dean	Cimoli	Emulex			X	X
Jeff	Kopko	Emulex			X	
Pradeep	Satyanarayana	IBM	X	X	X	X
Harry	Cropper	Intel	X	X	X	X
Jess	Robel	Intel		X	X	
Jim	Ryan	Intel	X			
Uma	Parepalli	SK Hynix Memory Solutions				X
Rupert	Dance	Software Forge	X	X	X	X
James	English	UNH-IOL		X		
Glenn	Martin	UNH-IOL		X	X	X
Edward	Mossman	UNH-IOL	X		X	X
Bob	Noseworthy	UNH-IOL				X
Chuck	Valenza	UNH-IOL	X	X		X

New Member - Uma Parepalli from SK Hynix Memory Solutions

- 1) He is involved with NVME and boot drivers and windows and provides a SK Hynix solution
- 2) He is interested in specification and standards

Events

OFA Developers Conference

- Sunday March 30th to Wednesday April 2nd, 2014 Monterey, California U.S.A.
- <https://www.openfabrics.org/press-room/ofa-intl-developer-workshop.html>
- Early Bird registration **ends** 2/28/2014
- Registration: <https://www.eventbrite.com/e/2014-10th-annual-openfabrics-international-developers-workshop-tickets-10091866043>

OFA User Group (IBUG) Conference

- Wednesday April 2nd to Thursday April 3rd, 2014 Monterey, California U.S.A.
- <https://www.openfabrics.org/press-room/ibug-workshop.html>
- Early Bird registration **ends** 2/28/2014
- Registration: <https://www.eventbrite.com/e/openfabrics-ibug-2014-tickets-10092142871>

Interop and Plugfest Events

- **April 2014**
 - IBTA PF25 03/31 → 04/11/2014
 - OFA Interop Debug Event 04/07 → 04/11/2014
- **October 2014**
 - IBTA PF26 10/20 → 10/31/2014
 - OFA Interop Debug Event 10/27 → 10/31/2014

April 2014 Interop Debug Event

- CentOS 6.5 (possibly SL 6.5)
- OFED 3.12 RCx
- Test Plan updates
- Registration
 - OFA Only: https://www.iol.unh.edu/services/testing/ofa/events/invitation_2014-04.php
 - IBTA: http://www.infinibandta.org/content/pages.php?pg=events_plugfest

OFED EWG Status

- OFED 3.5-2 GA - released 12/24/2013
 - <http://www.openfabrics.org/downloads/OFED/ofed-3.5-2/OFED-3.5-2.tgz>
- OFED 3.12
 - [Daily build](#) as of 02/09/2014
 - RC1 by end of February

OFED 3.12 Updates - <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/256>

- 3.12 kernel
- Support for RHEL 6.4, 6.5 and SLES11 SP3
- Updated user packages
 - dapl-2.0.40
 - ibsim-0.6
 - infiniband-diags-1.6.4
 - infinipath-psm-3.2-2_ga8c3e3e_open
 - libcxgb4-1.3.2
 - libibmad-1.3.11
 - libibumad-1.3.9
 - libipathverbs-1.2.1
 - libmlx5-1.0.1
 - libnes-1.1.4
 - libocrdma-1.0.2
 - librdmacm-1.0.18
 - mstflint-3.5.0
 - opensm-3.3.17
 - perftest-2.0-0.76.gbf9a463
 - srptools-1.0.2

OFED Bugs: <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/257>

- OFED 3.5-2
 - Bug [2449](#) – NFSoRDMA on Power 7
- OFED 3.5-2 GA
 - Bug [2457](#) – ib_send_bw with size less than 241 - **resolved**
- OFED 3.12
 - Bug [2460](#) - Compile issues related to libocrdma
 - Bug [2461](#), [2462](#) - libcxgb4 issues
 - See Bugs list above for complete list

OFA January Logo Event Status - UNH-IOL reporting

- 1) All Mandatory is complete.
- 2) They are currently in report writing phases and double checking data and facts.
- 3) They hope to have reports by end of this week.
- 4) Have been in contact with all members – via email

AR: Edward please send Harry the preliminary OFILG reports

OFED Bugs - NFSoRDMA on Power 7

- 1) Pradeep – still progress in the last week or so.
- 2) Pradeep – perfctest bugs – he does not believe it is just PPC. It works between two PPC. PPC brings big endian. So it is between PPC and i686
- 3) Edward has seemed the same thing. They only have one PPC so have not tested completely.

Proposed Test Plan updates – reports from Edward at UNH-IOL

- 1) IPoCE – new test
 - a) Beta – UNH-IOL will try to develop.
 - b) Ping, SCP and SFTP section in both connected and datagram modes
 - c) They will prepare a feasibility test for the next call
- 2) Bob Noseworthy
 - a) IP testing in InfiniBand is VIP because we need to support multicast. He is not sure IPoCE is as important. He would like to know what the RoCE group wants to do.
 - b) He feels we should be focusing on Priority Flow Control (PFC) using background traffic to validate if RoCE traffic is really given priority. This would include [Data Center Bridging](#)
 - c) He wants to move testing more into the fabric. We assume that the end station supports PFC and map priority you are using to the fabric and validate the priority is enforced. In summary he wants to see IP work in presence of other traffic.
- 3) Dean
 - a) No switches with RoCE TLB. Bridge community does not support
 - b) Emulex plans to support PFC.
- 4) Rupert
 - a) RoCE v2 is currently under development by the IBTA and is designed to support layer 3 routing. This topic will be presented at the OFA Developers conference.
- 5) Pradeep wish list
 - a) He would like to see Bonding over RoCE but he is very busy right now and does not have much time to contribute

Review of test status for April 2014 Interop debug event

Table 23 - SUBJECTS NOT COVERED

Number	Subject/ Feature	Description	Due Date
1	iWARP peer to peer	Future Testing	TBD
2	IPv6 testing	Future Testing	TBD
3	RDMA_CM Tests	IBM wants to develop tests for processor-heterogeneous (x86_64/ppc64) setups.	TBD
4	Bonding over RoCE	IBM wants to make sure Link Aggregation works. If they have two devices, they would like to test fail over	TBD

Testing

- 1) Rsockets went well for RoCE but we did not test for other transport. For April 2014, we are committed to run it on IB
- 2) iWARP
 - a) RDMA stress they don't do because of they only have one 10 GB switch.
 - b) **Bob**: we need both 10 and 40 GB switches. We wanted to do a merged Network between iWARP and RoCE but we need a long term loan with a modern interface (not CX4)
 - c) Add Rsockets to iWARP tests. Edward will check feasibility
- 3) RoCE – Rsockets move to Mandatory
 - a) Pradeep is OK
 - b) Dean wants to talk.
 - c) RDMA Stress – they never had time to test with the two 40 GBs switch.

Opens

Bob – let me know how we can expand and increase Ethernet validation and Ethernet Fabrics.

Action Requests (ARs)

Chelsio

11/5/2013

- 1) Send updated firmware for T5 RNIC.
- 2) Send UNH-IOL transceivers and cables that will work with the T5 adapter and the IBM switch

Software Forge - Rupert Dance

Older

- 1) Update Logo Program to include OFA Policy regarding OFILG Membership and granting of the Logo
- 2) Create Logo with version or change Logo Guidelines – [see 4/3/2012 minutes](#)

UNH-IOL

2/11/2014

- 1) Edward: please send Harry Cropper the draft reports