

## OFA IWG Meeting – 1/13/2015

First	Last	Company	10/07/14	12/02/14	12/16/14	01/13/15
Martin	Schlining	DataDirect Networks				X
Dean	Cimoli	Emulex	X	X	X	X
Pradeep	Satyanarayana	IBM	X	X	X	X
Harry	Cropper	Intel	X	X	X	X
Jess	Robel	Intel	X	X	X	X
Rupert	Dance	Software Forge	X	X	X	X
Glenn	Martin	UNH-IOL	X	X	X	
Bob	Noseworthy	UNH-IOL	X	X		
Stefan	Oesterreich	UNH-IOL			X	
Chuck	Valenza	UNH-IOL	X			X
Dave	Wyman	UNH-IOL	X	X	X	X

### Agenda

- **Meeting Minutes**
  - <https://ofa.causewaynow.com/wg/OFLIG/document/295>
- **Interop and Plugfest Events**
  - **April 2015**
    - IBTA PF27 04/13 → 04/24/2015
    - OFA Interop Debug Event 04/20 → 04/24/2015
  - **October 2015 - proposed**
    - IBTA PF28 10/12 → 10/23/2015
    - OFA Interop Debug Event 10/19 → 10/23/2015
- **OFA EWG Status**
  - OFED 3.12-1 – **RC4** released on 12/4/2014
    - <https://www.openfabrics.org/downloads/OFED/ofed-3.12-1/OFED-3.12-1-rc4.tgz>
  - OFED 3.12-1 GA release
    - **Pending** resolution of Bug [2515](#)
  - OFED 3.18 Daily Build – latest is 1/11/2015
    - <https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150111-0243.tgz>
- **Bug Status**
  - OFED bug status as of 1/5/2015
  - <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/410>
- **OFED Packages for both 3.12-1 and 3.18 – as of 1/12/2015**
  - <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/411>
- **Interop Test Event Status**
  - OFA Interop Logo GA Event Status
  - OFED 3.12-1 GA for iWARP and IB
  - OFED 3.18 primarily on RoCE
  - Frozen software, firmware and hardware.
- **Opens**

## Start of Meeting

### OFED 3.12-1 Status

- 1) Bug [2515](#) - Link fails between Mellanox ConnectX3 HCA and Intel HCAs when connected back to back.
  - a) Mellanox and Intel have verified that this problem exists. When the two HCAs are connected back to back and you start the OpenSM on Intel, then the link will not go active but if you start it on the Mellanox ConnectX3 then the link will go active.
  - b) **Rupert**: why doesn't this occur when using RHEL 6.5 and OFED 3.12?
- 2) **Vlad** – there is no difference in the OFED code for 6.5 and 7.0 that should affect this
  - a) He also notes that this does not always happen on RHEL 7.0
  - b) Mellanox receives MADs and they get dropped - they cannot debug Intel side and so cannot determine what is wrong.
  - c) **Vlad**: Not critical because does not happen on Intel switch
    - i) **Rupert** says that he has seen it happen on the switch as well.
- 3) Conclusion
  - a) There is a workaround which is to start the OpenSM on the Mellanox side.
  - b) Woody feels that we should go to GA because his team needs the GA and this only occurs on a limited topology that does not occur often.

### OFED 3.12-1 RC4 testing

#### UNH-IOL

- 1) Chuck and Glenn have tested OFED 3.12-1 RC4 on both the iWARP Cluster and the IB Cluster and feel that 3.12-1 is good except for the issue described in Bug [2515](#)
- 2) There are known issues with OFED 3.12-1 RC4 on Mellanox RoCE adapter that support RoCE v2 and also on IBM PPC64 machines. These issues have been resolved in OFED 3.18

### OFED 3.18

- 1) There is current support for RHEL 7.0 & SLES 12 from all vendors.
- 2) There is limited support for RHEL 6.5 and 6.6
  - a) Core support compat-rdma and mlx4 an 5
  - b) Backports are missing from Chelsio, Emulex
  - c) Vlad is working on iSER and SRP
- 3) Dave
  - a) He has had good success with Link Init on the RoCE cluster. Some devices need to modprobe rdma\_cm and modprobe rdma\_ucm. This is because of a known issue with Intel drivers which is described in Bug [2518](#).
  - b) **Pradeep**: if module dependencies are correct it should auto-load. Check openibd.
    - i) Only time openibd restart is after fresh install – can reboot
  - c) **Dave**: I also had issues when installing the latest OFED 3.18.
    - i) Had to install LS Open Files
    - ii) Had to install without nfsordma
    - iii) Had to install without ipwm
  - d) **Chuck**: there is also an issue installing with ipwm on iWARP
  - e) **Dave**: 1/11/2014 is installed and
    - i) Link Init is working well.
    - ii) Perfctest is not always constituent and need different flags.
- 4) Jess
  - a) She will follow up internally on Bug [2518](#)

## Other Open Issues

- 1) Pradeep asks that we push NFSRDMA and try to get a solution in the OFED 3.18 code and then ask UNH-IOL to verify.

## Is the group ready for GA Logo Testing use OFED 3.12-1 GA for iWARP & IB and 3.18 for RoCE?

- 1) Marty- 3.12-1 GA seems good.
- 2) Dean: no issues
  - a) He wanted to verify we will test RoCE using 3.18 as the primary OFED version
  - b) Rupert verified this.
- 3) Jess: no concerns
- 4) Harry: no concerns

## Action Requests (ARs)

### Emulex – Dean

**1/13/2015**

- 1) Follow up on Intel Bug [2518](#) – it is still broken on Emulex devices

### IBM - Pradeep

**10/7/2014**

- 1) Rupert asked Pradeep to review the status of Bug on [2507](#) which involves NFSRDMA - Kernel Panic while parallel mount/unmount test.

### Intel – Jess

**1/13/2015**

- 2) Follow up on Intel Bug [2518](#)

### Software Forge – Rupert Dance

**9/9/2014**

- 1) Logo Program updates: some of the tests in the IB section say IPoIB Datagram mode only – why is that? – reviewed. Bob says to remove it – done by Rupert 1/26/2015

### UNH-IOL

- 5) Dave: let vendors know of any problem

**12/2/2014**

- 1) Test OFED 3.18 and see if it has resolved the NFSRDMA issues – waiting for NFSoRDMA fixes in 3.18

**9/23/2014**

- 1) Test –R option to perfect and submit suggested updates for test plan – Glenn will do –R and -z
- 2) Provide color key for Test Results Key – trivial may wait until after Plugfest

**8/26/2014**

- 1) iSER updates due by next meeting – no progress as of 10/7/2014 – Bob wants to get this done – Bob will follow up. Dr Russell will help out. Need to emulate a link partner. Bob asks vendors to get active that have target interest.