

OFA EWG Meeting – 6/8/2015

Attendees

First	Last	Company	04/13/15	04/27/15	05/11/15	06/08/15
Eddie	Wai	Broadcom	X		X	X
Steve	Wise	Chelsio			X	X
Pradeep	Kankipati	Avago	X	X	X	X
Pradeep	Satyanarayana	IBM	X	X		X
Arlin	Davis	Intel				X
Mike	Marciniszyn	Intel	X			
Tatyana	Nikolova	Intel	X	X	X	X
Jim	Ryan	Intel	X	X	X	X
Robert	Woodruff	Intel	X	X	X	X
Vladimir	Sokolovsky	Mellanox	X	X	X	X
Jeff	Becker	NASA	X		X	
Rupert	Dance	Software Forge	X	X	X	X
Tim	Carlin	UNH-IOL		X		
Dave	Wyman	UNH-IOL	X		X	X

Agenda

Meeting Minutes 5/11/2015:

- https://www.openfabrics.org/downloads/WorkGroups/ewg/EWG_Minutes/2015-05-11-EWG-Meeting-Minutes.pdf

OFED 3.18 status

- **OFED 3.18 RC2**
 - <http://downloads.openfabrics.org/downloads/OFED/ofed-3.18/OFED-3.18-rc2.tgz>
- **OFED 3.18** – latest daily build 06/08/2015
 - <https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150608-0149.tgz>
- **OFED User Package Status as of 6/8/2015**
 - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_User_Package_Status/OFED-User-Package-Status-2015-06-08.pdf
- **OFED 3.12-1 and 3.18 Bug Status as of 6/8/2015**
 - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_Bugs/OFED-3.xx-Bug-Status-2015-06-08.pdf
 - [2527](#) - Interface mtu does not change
 - All 3.12 and 3.12-1 bugs are now resolved ☺
 - [2544](#) – infinipath-psm won't install with libfabric
 - [2545](#) - ipath compilation fails on SLES11 SP4 and RHEL6.7
 - Should this be major versus enhancement?
 - [2547](#) – libibscif and xeon-phi issues
- **OFED 3.18**
 - First Daily Build 10/28/2014
 - RC1 – 3/11/2015
 - RC2 – 4/13/2015
 - RC3 – can we do it this week?
 - GA – target is 2 weeks after RC3

Next Meeting: June 22nd, 2015

Review of updated OFED User Packages

- 1) **Arlin:** DAPL Package – there have been a few bug fixes for Xeon Phi. This also includes some scale out updates for large DAPL cluster running in UD mode. This has been tested on a cluster with 1200+ nodes and 28 cores per node. This has been tested in all-to-all mode and he feels it is in great shape.
- 2) **Vlad:** mstflint has been updated for Connectx4
- 3) **Woody:** librdmacm has been updated and includes a couple of minor bug fixes and one fix for RSocket which was preventing Intel HCAs from completing the RSocket tests run during the Interop Testing .
- 4) **Steve:** no big changes – checked with Chelsio QA and they want another week before we release RC3.
- 5) **Tatyana** – no problems
- 6) **Pradeep Avago:** they have made some bug fixes to solve some compilation issues. They are testing on all supported platforms including SLES 11 SP4
- 7) **Pradeep IBM:** discussed with Dave Wyman – RC2 won't build on PPC64. We need stable build before we move forward with RC3. Rupert will follow up with all the parties to get this resolved.
- 8) **Woody** – we don't support SLES11 SP4 and RHEL6.7 in OFED 3.18
 - a) He feels we should include this in the next point release which would be 3.18-1. There are likely to be other bugs that can be cleaned in 3.18-1 and some that exist now which will likely not get resolved in 3.18
 - b) Vlad is supportive of this suggestion and no one objects
- 9) **Vlad:**
 - a) UNH-IOL and IBM need to create bugs on Bugzilla if there are PPC64 issues
 - b) **Dave:** he will test the latest OFED 3.18 Daily build on PPC64. He wanted to know if RHEL7.1 is supported and Rupert confirmed that it is supported.

Bug Status

- [2527](#) - Interface mtu does not change
 - This update was submitted to the kernel and Vlad has applied it to OFED 3.18
 - All 3.12 and 3.12-1 bugs are now resolved ☺
- [2544](#) – infinipath-psm won't install with libfabric
 - **Woody:** This appears to be an issue when both libfabric and Xeon-phi are supported. The CM library renames PSM library but libfabric has a dependency on the PSM Library. It is very unlikely that PSM and libfabric will be enabled at the same time. Libfabric does not run on Xeon-Phi.
 - **Possible work around:** Install OFED without libfabric and then rename libraries. Intel suggests we move forward with RC3 and GA and document as known issue.
 - Sean Hefty is working on a permanent solution.
- [2545](#) - ipath compilation fails on SLES11 SP4 and RHEL6.7
 - **Rupert:** Should this be major versus enhancement?
 - Vlad agrees that this should be normal
 - **Woody:** 3.18 does not support these new Distro releases and suggests that we include fixes for these in 3.18-1
- [2547](#) – libibscif and xeon-phi issues
 - **Woody:** this appears to be a user issue getting things installed correctly with old stuff. All Intel testing looks good.
 - In Xeon Phi, RDMA driver plugs into core like IB or iWARP driver. It runs ibverbs over the scif interface. This is the lowest level interface between Xeon Phi and host. It allows verbs, dapl and MPI to communicate between interface and host. So the libibscif is the user space component that goes along with this solution.
 - It is ok to mark this as a known issue in 3.18. It does not affect MPI or any other ULP.

Scheduled release of RC3

- 1) **Woody:** Chelsio could test on RC3 and if they finds bug then we could do an RC4.
 - a) **Steve:** is OK if we want to release RC3.
- 2) **Vlad:** he reminds us that we not only need to update OFED release notes but also all of the package release notes.
 - a) **Arlin** has updated the release notes and will submit
 - b) **Steve** will double check and create an update if needed.
 - c) **Pradeep Avago:** will double check and submit some updates
 - d) **Tatyana** – will create release notes for libiwpm
 - e) **Arlin** will ask Sean for an update to librdmacm and release notes for libfabric
 - f) **Jeff Becker** – will provide updates for NFSRDMA.

Open Issues - Woody

- 1) For next two months he is taking a temp assignment and covering for someone who is on sabbatical. Arlin will fill in.

OFED 4.x

- 1) Let's do a 3.18-1 release for new Distros. He would like to wait to see a reasonable amount of stuff upstream.
- 2) Doug Ledford has put a lot upstream. RoCE v2 needed. More stuff coming soon.
- 3) Omni Path releases will be coming soon.
- 4) **Steve:** Chelsio has done a whole lot in upstream to synch with internal source.. He wants a new release of 4.x for cxgb4.
- 5) **Pradeep Avago:** they are keen on RoCE v2. He is OK if it make sense to wait to for a month.
- 6) **Woody:** his thought is 3.18-1 for new Distros will take 1-2 months. In two months we will have better feel for 4.2. There is a lot being discussed and 4.2 will be the first release where Doug Ledford has been in charge of the kernel components and may not put everything in it until 4.3.
- 7) **Steve:** the 4.1 GA is next Sunday. There is a two weeks merge window. So 4.2 won't be until end of July. Steve wants to evaluate by end of July.
- 8) **Conclusion:** wait for 1-2 months

ARs

All package maintainers

5/11/2015

- 1) Make sure we get release notes updated and each vendor should get updates in.

Chelsio – Steve Wise

9/15/2014

- 1) Send patch for Bug [2492](#) upstream to the perftest maintainer and ask them to check out and accept the patch – in process

Emulex

4/27/2015 – done - patches submitted to correct this problem on 6/12/2015

- 1) **Licensing issue – Jim Ryan:** OFED is based on Kernel code. So does the dual GPL and BSD license still apply? Header files in upstream still say dual license. The OFA process is that the patch is submitted under same license. So code will be both BSD and GPL. The text says something like the following: Copyright and submitted under one of two licenses. GPL or BSD
- 2) OFA Bylaws require that we have dual license. Most code has dual license. But Emulex driver is submitted only as GLP only and so needs to be modified
- 3) Pradeep will follow up and fix this.

Intel -IB

Intel iWARP – Tatyana

Mellanox - Vlad

NFSRDMA – Jeff

SFI - Rupert

UNH-IOL

6/8/2015

- 1) Test latest daily build to help determine why RC2 won't build on PPC64.