

OFA EWG Meeting – 1/19/2015

Attendees

First	Last	Company	12/08/14	12/22/14	01/05/15	01/19/15
Eddie	Wai	Broadcom	X		X	X
Steve	Wise	Chelsio	X	X		X
Pradeep	Kankipati	Emulex	X	X	X	
Pradeep	Satyanarayana	IBM	X			
Tom	Elken	Intel	X	X		
Tatyana	Nikolova	Intel	X	X	X	X
Robert	Woodruff	Intel	X		X	X
Vladimir	Sokolovsky	Mellanox	X	X	X	X
Jeff	Becker	NASA			X	
Rupert	Dance	Software Forge	X	X	X	X

Meeting Minutes

- 01/05/2015: <https://ofa.causewaynow.com/wg/EWG/documentRevision/download/408>

Agenda

OFED 3.12-1 status

- **OFED 3.12-1-RC4** - Released 12/04/2014
 - <https://www.openfabrics.org/downloads/OFED/ofed-3.12-1/OFED-3.12-1-rc4.tgz>
- **OFED 3.12-1-GA**
 - Scheduled release after resolution of Bug [2515](#)
- **OED 3.18** – latest daily build 01/18//2015
 - <https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150118-0545.tgz>
 - Supported OSs
 - RHEL 7.0 – supported for all packages
 - SLES 12 - supported for all packages
 - RHEL 6.5 and 6.6 – backport status
 - **ib_core, ib_ipoib and mlx4/5 – completed**
 - **libcxgb3, libcxgb4 - completed**
 - Still need backports for libocrdma, qib and srp
 - Plans for additional OSs
 - SLES 11 SP3
 - RHEL 7.1
- **OFED Bug List**
 - <https://ofa.causewaynow.com/wg/EWG/documentRevision/download/404>
- **OFED 3.12-1 Bug Status**
 - Bug [2489](#) – NFSoRDMA – need to test using OFED 3.18
 - Bug [2515](#) - Link fails between Mellanox ConnectX3 HCA and Intel products
 - Mellanox and Intel have verified
 - Can we accept workaround
 - Why does this not occur with RHEL 6.5 and OFED 3.12?
 - Bug [2520](#) - System crash under iSCSI heavy load in Xen/Dom0.
 - Filed on CentOS 5.0
 - Assigned to dorons@voltaire.com
- **OFED 3.18 Bug Status**
 - Bug [2492](#) – Perfest - enhancement
 - Bug [2502](#) – RDS – under consideration at Oracle

- Bug [2507](#) – Kernel panic NFSRDMA – need to test using OFED 3.18
- Bug [2514](#) – NFSRDMA - svcrdma not present in OFED-3.18 daily build
 - Jeff has done an update – need to verify OFED-3.18-20150118-0545.tgz
- Bug [2518](#) – ib_qib cannot be loaded on RHEL7.0
 - Solved for hosts with Intel and Mellanox
 - Broken with Emulex
- Bug [2519](#) - Modernize compat-rdma spec file
- Bug [2521](#) - rdma_cm and rdma_ucm do not start due to QIB_LOAD error
 - Seems related to bug 2518
- **OFA IWG Interop testing status**
 - Waiting for OFED 3.12-1 GA

Start of Meeting

OED 3.18 – latest daily build 01/18//2015

1. <https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150118-0545.tgz>
2. Supported OSs
 - a. RHEL 7.0 – supported for all packages
 - b. RHEL 6.5 and 6.6 – still waiting for some backports
 - c. SLES 12 - supported for all packages
 - d. SLES 11 SP3 - SRP iSER and Mellanox core
3. Backport Status - RHEL 6.5 and 6.6 – backport needed
 - a. **Vlad**: Wants to pull in critical fixes since 3.18
 - b. Still need backports for libocrdma and qib
 - c. **Woody**: Intel has done 7.0 but not 6.5 and 6.6
4. Backport Status – SLES 11 SP3
 - a. **Vlad**: SRP, iSER and Mellanox core have been completed
5. Plans for additional OSs
 - a. RHEL 7.1
6. iWARP Port Mapper - **Tatyana**
 - a. Rupert reports that UNH-IOL says that it will not install by default in 3.18
 - b. She has worked on it and submitted all the relevant updates. However there is a new dependency to net link library – needs different headers such as the devel package.
 - c. Here are the required dependencies
 - i. libnl-devel-1.1.4-3.el7.x86_64.rpm
 - d. Steve - the installer should spit out a message if there is a missing dependency.
2. **Woody**: CCL Direct (Xeon Phi) patches work has started – bugs being worked through. True scale may be a little longer

OED 3.12-1 GA 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.
- c) **Steve & Tatyana** both agree that we should move forward with the GA and concentrate on 3.18.
- d) **Vlad**: Move BUG to won't fix
- e) **Rupert** called for a voice vote and OFED 3.12-1 GA was approved by acclamation.

Bug [2518](#) - ib_qib cannot be loaded on RHEL7.0

- 1) Intel has solved this for hosts with Intel and Mellanox HCAs but it is still a problem with Emulex RCAs
- 2) **Vlad** he feels this is still an Intel issue

Open Items - Woody

- 1) We need to work on an EWG update for the OFA Dev con.
- 2) Rupert told the group that Mellanox proposed a new OFA Work Group to focus on extended verbs. This WG will be independent of OFIWG. It has not been officially announced yet the working group will focus on enhancements for IB-Verbs.
- 3) **Woody**: OFIWG has not had focus on ib-verbs. Mellanox and Oak Ridge will start moving the work forward. In Board meeting, had they discussed with iWARP and RoCE. They are interested in verbs as well.

ARs

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

- 1) Need OFED 3.18 backports for RHEL 6.5 and 6.6 as well as for SLES SP3
- 2) Check out bug [2518](#) which still seems to be a problem with Emulex RCAs

Intel

- 1) **QIB**: Need OFED 3.18 backports to support RHEL 6.5 and 6.6 as well as for SLES SP3
- 2) **Intel MIC**: Need OFED 3.18 backports to support RHEL 6.5 and 6.6 as well as for SLES SP3

Rupert

1/19/2015

- 1) Determine if the installer spits out a message if there is a missing dependency for libnl-devel-1.1.4-3.el7.x86_64.rpm which is needed for iwpm.

UNH-IOL

12/22/2014

- 1) Test NFSoRDMA using OFED 3.18 to see if NFSoRDMA bugs have been resolved. On hold until NFSoRDMA is fixed in 3.18 – see notes and bugs above.