

OFA IWG Meeting – 2/24/2015

First	Last	Company	01/13/15	01/27/15	02/10/15	02/24/15
Martin	Schlining	DataDirect Networks	X	X		
Dean	Cimoli	Emulex	X	X		X
Pradeep	Satyanarayana	IBM	X	X		X
Harry	Cropper	Intel	X	X		
Jess	Robel	Intel	X	X		
Jim	Ryan	Intel		X		X
Tatyana	Nikolova	Intel				X
Rupert	Dance	Software Forge	X	X		X
Bill	Boas	System Fabric Works				X
Tim	Carlin	UNH-IOL				X
Glenn	Martin	UNH-IOL		X		
Bob	Noseworthy	UNH-IOL				X
Stefan	Oesterreich	UNH-IOL				
Chuck	Valenza	UNH-IOL	X			X
Dave	Wyman	UNH-IOL	X	X		X

Note: the 2/10/2015 meeting was led by UNH-IOL while Rupert was travelling.

Agenda

- **Interop and Plugfest Events**

- **April 2015**

- IBTA PF27 04/13 → 04/24/2015
 - OFA Interop Debug Event 04/20 → 04/24/2015

- **October 2015**

- IBTA PF28 10/12 → 10/23/2015
 - OFA Interop Debug Event 10/19 → 10/23/2015

- **OFA EWG Status**

- OFED 3.12-1 – GA released on 1/22/2015
 - <https://www.openfabrics.org/downloads/OFED/ofed-3.12-1/OFED-3.12-1.tgz>
 - OFED 3.18 Daily Build – latest is 2/12/2015
 - <https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150212-0344.tgz>
 - OFED 3.18 RC and GA status
 - RC1 within 1-2 weeks. Waiting for final updates on qib and Xeon Phi
 - OFED 3.20
 - Includes support for routable RoCE v2
 - Daily build ETA – end of March

- **OFED Bug Status as of 2/16/2015**

- <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/428>

- **OFED Packages for both 3.12-1 and 3.18 – as of 2/16/2015**

- <https://ofa.causewaynow.com/wg/OFLIG/documentRevision/download/429>

- **OFA Interop Logo GA Event – testing update – UNH-IOL leading**

- Started Monday 1/26/2015
- IB using OFED 3.12-1 GA
- iWARP using OFED 3.12-1 GA
- RoCE using OFED 3.18
- **April OFA Interop Debug Event Planning - 04/20 → 04/24/2015**
 - Any changes to the test plan?
 - Mandatory versus Beta status for all transports?
 - ULP testing
 - iSER
 - NFSoRDMA
 - libfabric testing?
 - OFED version – 3.18 proposed – 3.20 daily may be available
- **Transition plans**
 - Tim Carlin
 - New OFA accounting procedures
 - SFI role
- **Opens**

Start of Meeting

OFED 3.12-1 Status

- 1) GA released on 1/22/2015 and is being used in Logo GA testing for IB and iWARP

OFED 3.18

- 1) OFED 3.18 RC and GA status
 - a) The EWG expects to be able to deliver OFED 3.18 RC1 within 1-2 weeks. We are currently waiting for final updates on Intel qib.
 - b) The EWG intends to include libfabric RC2. This will be added like any other user package that is included in OFED – for example Rsockets, uDAPL etc.
- 2) Supported OSs
 - a) RHEL 7.1 – this will be included if Red Hat Gas this in time.
 - b) RHEL 7.0 – supported for all hardware
 - c) RHEL 6.5 and 6.6 – supported for all hardware
 - d) SLES 12 - supported for all hardware
 - e) SLES 11 SP3 - supported for all hardware
- 3) Backport Status – SLES 11 SP3
 - a) **Emulex**: he will provide an update status
 - b) **Intel**: needs to add support for QIB and Xeon Phi
- 4) OFED 3.20
 - a) The EWG is currently working on producing OFED 3.20 daily build. This is significant because it will include support for routable RoCE v2 which is important for IBM and Emulex and Mellanox RoCE products
 - b) Daily build ETA – end of March

OFA Interop Logo GA Event – testing update – UNH-IOL leading

- 1) Testing started Monday 1/26/2015
- 2) **IB using OFED 3.12-1 GA**
 - a) They have completed most of the testing. They are currently doing uDAPL and NFSoRDMA
 - b) The final test will be Link Init which is always time consuming and difficult.
 - c) The testing has gone as expected. There are a few glitches one of which is that they are having trouble with the Connectathon test suite.
- 3) **iWARP using OFED 3.12-1 GA**
 - a) Testing complete and ready to report.
- 4) **RoCE using OFED 3.18** – Dave Wyman
 - a) **Rupert** explained that we are using 3.18 because 3.12-1 did not support all of the features required by the three ROCE vendors: Emulex, IBM and Mellanox. The downside is that 3.18 is not a GA build and is expected to go to RC1 next week.
 - b) Dave says that this has been a challenge and he has been working with vendors. He has also had problems with the daily builds and vendor drivers and he has not been able to establish a stable testing environment yet.
 - c) **Rupert** suggests that UNH-IOL finish the IB testing and continue to work on the RoCE solutions. This will give vendors more time to update their drivers and also for EWG to move 3.18 to RC. We will initially publicize the IB and iWARP results and when things are stable we will complete the RoCE testing and add the results to the OFA Logo List.
 - d) **Dean**: no problem with this RoCE strategy
 - e) **Pradeep**: no problem with this RoCE strategy. Although things have been difficult, the different hardware platforms (PPC64, x86 and thee different vendor solutions) have allowed us to discover and resolve problems with both vendor drivers and OFED software.
- 5) **Dave**: please join us for the Debug Event in April
- 6) **Rupert**: we had very good participation and good results from the October debug event because we had engineers from DDN, IBM, Intel, Mellanox

Other Topics

Introduction to Tim Carlin from UNH-IOL

- 1) He started as an undergrad at UNH-IOL in 2004 and graduated in 2006.
- 2) He has worked at UNH-IOL since 2006
- 3) He then completed his master's degree at UNH in 2012. His area of research was RoCE over Long Distance
- 4) He has most recently been working in the IPv6 consortium.
- 5) His goal is to help the team with the cluster and help manage day to day testing.

Bill Boas – OFA Treasurer

- 1) Bill sent out an email to the group to explain the new invoicing process. He hopes everyone has seen the email – Dave forwarded it to Pradeep.
- 2) At a high level **the invoicing process** will go as follows:
 - a) *OFA will first issue you a Quotation for 1 years plugfest participation based on the estimate of your payment due.*
 - b) *Within 5 days we ask that you get management approval for your companies payment in advance, by requisition or other approved process you have.*
 - c) *Then 45 days before the plugfest OFA will issue your company the correct invoice, due and payable in 30 days.*

- d) *If OFA has not received payment by 5 working days before the plugfest, then as Treasurer and Business manager we will inform you personally, your company and UNH-IOL that **your company may not participate in the upcoming plugfest** as all parties were planning, unless payment is received before the plugfest.*
- 3) Bill Boas wants to get everything in place before the next Interop Debug event in April 2015 so the conditions described above will be in effect for the next Interop Debug Event.
- 4) **Pradeep**: knows people who are in charge of this.
- 5) **Dean**: this can work with their internal AP and Finance. He can get a PO Number.
- 6) **Rupert** mentioned that Bill Boas had incorrectly referenced the Integrators List in his email. The Integrators' List is an IBTA program that tests both compliance and interoperability and is 100% independent of the OFA program. The OFA's involvement is with the IWG and OFILG and not the IBTA Integrators' List.
- 7) **Bill Boas** wanted to know what the OFA calls its program and Rupert explained that the group is known as the OFA Interoperability Logo Group (**OFILG**), the program is the **OFILP** and the end result of the testing is known as the **OFA Logo List** and is available here: <https://www.iol.unh.edu/registry/ofa>. Conversely the IBTA Program is known as the Integrators' List and is available here: http://www.infinibandta.org/content/pages.php?pg=products_integrators_list

Jim Ryan

- 1) Jim Ryan explained that the OFA is in the process of a transition in which the business matters of the OFA and the OFILG will be the responsibility of the OFA staff and the new bookkeeper. Rupert will continue to be involved with the EWG and IWG and focus on the technical aspects.
- 2) Jim Ryan also mentioned that the new OFiWG needs to be sensitive to Interop and the need to thoroughly test the new interfaces they are developing.

April Interop Debug Event

Rupert:

- 1) We will need to review the following for our next event:
 - a) Any changes to the test plan?
 - b) Mandatory versus Beta status for all transports?
 - c) ULP testing
 - i) iSER
 - ii) NFSoRDMA
 - d) libfabric testing?
 - e) OFED version – 3.18 proposed – 3.20 daily may be available
- 2) This discussion was deferred until the next meeting because of time constraints

Tim Carlin – status of iSER test suite

- 1) He will look into iSER
- 2) Bob Noseworthy mentioned that their interest in this ULP has been based on whether OFILG members have these products. Internally the UNH-IOL iSCSI group has been on other projects.
- 3) Rupert mentioned that Mellanox is the maintainer of iSER and has a strong interest in this ULP.

Action Requests (ARs)

Emulex – Dean

2/24/2015

- 1) Find out if Emulex provided backports and support for all of the supported Distros in 3.18

1/13/2015

- 1) Follow up on Intel Bug [2518](#) – [this was resolved on 2/5/2015](#)

IBM – Pradeep

1/13/2015

- 1) Please push NFSRDMA to get a solution in the OFED 3.18 code and then ask UNH-IOL to verify.

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 – [this bug is still open and Rupert has volunteered to follow up with the maintainer – 2/24/2015](#)

Intel – Jess

No Open Items

Software Forge – Rupert Dance

2/24/2015

- 1) Follow up with the maintainer on Bug 2507
- 2) Follow up with NFSoRDMA team regarding the problems UNH-IOL is having with the NFSoRDMA Connectathon test suite

UNH-IOL

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 will follow up and Dr Russell will help out. Need to emulate a link partner. Bob asks vendors to get active that have target interest.