**OFI WG Weekly telecom – 09/23/2014**

**Agenda**

* role call,
* agenda bashing
* meeting frequency, mechanics, mailing list?
* scope
  + blk storage
  + file i/o
  + object i/o
* relationship to existing OFI WG – one of four ‘interest groups’
* Process/timeline
  + review current lib-fabric arch
  + requirements gathering – subteams?
  + compare for best fit
  + 6 – 8 months timeline?

Q: (IBM) Should the scope include byte addressable storage integration

How does it overlap with NVME? NVME is still block-based I/O. This work sits on top of this. Also don’t forget the NVM programming model.

Q: This may end up as kernel mode, but byte addressable memory is user space.

A: Block-based is where we are today, but the NVM work is what’s emerging.

Object I/O could be described as a key-value store.

SanDisk – NVDimms

Argonne – byte addressable storage is interesting

Scott (ORNL) – does this cover both on-node and off-node. The key issues are naming, rendezvous, routing…

Q: does this mean message passing only? If so, do we need to uplevel the message passing interface (verbs) to make it a little more device agnostic.

Intel has some pretty clear goals: upleveling the current fabric interface to something that is more akin to SFI, except operation within the kernel is asynchronous, and what we would want in a kernel interface.

Q: stick only to kernel i/f? or allow user-level I/O?

A: depends on who the target is. if you allow for user space, you will still need mechanism for creating access protection. Accesssing block I/O from user space is interesting, but in Linux today virtually all block I/O requires a kernel API. CEPH could be user or kernel space. Object storage can be accessed from user space.

Wendy Cheng – agrees not to limit it to just kernel space.

Linden – huge value in a very simple get-put key-value kind of interface.

Q: What does ‘release’ mean, considering this involves kernel mode. Bart to send the name of a potential storage maintainer.

**OFIWG Download Site:** [www.openfabrics.org](http://www.openfabrics.org) 🡪OFED/OFA Resources 🡪 OpenFabrics Interfaces WG

**Agenda for next meeting**

Send/Receive credits discussion from the mailing list.

**Next regular telecom**

Next meeting: Tuesday, 10/7/14

9am-10am Pacific daylight time