**OFI Data Storage / Data Access Subteam Weekly telecom – 12/15/2015**

**DS/DA Shared Documents:** <http://downloads.openfabrics.org/WorkGroups/ofiwg/>

**Agenda**

* roll call, agenda bashing
* Holiday shutdown schedule – cancel 12/29/15?
* OFA workshop Call for Sessions, f-2-f meeting?
* Begin discussing how NVM access models map onto APIs
* Back to the Kernel Maintainer slide deck

**Holiday Schedule**

* Agreed to cancel 12/29/15 meeting, resume on 1/5/16

**OFA Workshop Call for Sessions**

* Are there goals we would like to achieve by the time of the Workshop?
* Potential topics
  + Intersection between DS/DA and OFI WG. Bring back to OFI WG our requirements for NVM, and possibly a list of enhancements/additions to the existing libfabric.
  + Possibility of Intel research project running Lustre over kfi. RDS is underneath that as a sockets provider. Demonstrates that the current kfi interface definition is sufficient for a known consumer. Current sticking point is that we don’t currently have any providers. (NVM is not yet addressed, although we’re close.)
  + A GNI kernel provider would be helpful for Lustre.
* Kfi could be a bit premature, but on the other hand, this may be a great opportunity.
* F-2-F – discussed the possibility of a f-2-f at Monterey. Most likely would be Monday during the day. The workshop this year is likely to run from Monday afternoon/evening through at least midday on Friday.

**How to move forward from here?**

* There has been substantial work (in OFVWG?) in moving existing kernel verbs forward. We need to understand that work in order to answer the question, why not kverbs?
* The work seems to be focused mainly on completion processing to address persistence.
* General approach being taken in verbs extensions is to view a QP and an ‘endpoint’ as similar abstractions.
* An interesting observation is that there are kernel maintainers (from RedHat) working on this.
* Nevertheless, today, there is still no support in the kernel verbs stack for non-QP-based devices. This is in contrast to the OFI approach, which comes at it from a device agnostic, RMA-interface, approach.
* Next step needs to be to resume work on the Kernel Maintainer slide deck. What kind of shape is that deck in, does it tell the story, or do we need to have a provider in hand in order to make the case?
* Suggested approach to the maintainers: Start with the question, “is this an acceptable direction?” If it is, then we have the basis for proceeding to develop at least one provider.

**Kernel Maintainer Slide deck**

* Need to address two major questions –
  + What is the difference between kfabric and verbs? and
  + What is the difference between kfabric and sockets?
* Next week we will resume work on this slide deck to see if it supports a discussion with the kernel maintainers focused on asking the question, “is this an acceptable direction that merits further development?”

**Webex Recording:** [**Play recording**](https://cisco.webex.com/ciscosales/ldr.php?RCID=643a0e4481bb5d995aea4c91a09cc8df) (52 min)

**Next regular telecom:**

Next meeting: Tuesday, 12/22/15

8am-9am Pacific daylight time

**NOTE:** We have switched over to using Webex (courtesy of Cisco). The URL for joining meetings is:

[Join WebEx meeting](https://cisco.webex.com/ciscosales/j.php?MTID=m221d8a20185d84b30daa0096aca0f182)

**Join by phone**

+1-866-432-9903 Call-in toll-free number (US/Canada)

+1-408-525-6800 Call-in toll number (US/Canada)

Access code: 201 212 241