**OFI WG Data Storage / Data Access Subteam Weekly telecom – 04/07/2015**

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

**Agenda**

* roll call, agenda bashing
* Continue with SNIA/RDMA summary – Doug Voigt
* Continue review of key objects and methods – Stan Smith

**SNIA NVM Programming Model Discussion – Doug Voigt**

* Nothing left to be discussed for this topic
* Doug welcomes feedback

**kOFI Client side connection setup and example – Stan Smith**

**See the slide set in the DS/DA architecture folder:**

 **http://downloads.openfabrics.org/downloads/ofiwg/dsda\_architecture/**

* Server side is listening on KOFI provider (covered in last session)
* Client side setup
	+ Create endpoint same as QP in IB; it can be connection oriented or connectionless
	+ Oracle is pushing RDS upstream this summer
	+ Create event queue
	+ Create CQ – 3 formats available. Immediate data can show up in \_DATA format.
	+ Bind event queue to end point
	+ Issue connect – target address format is sockaddr\_in
	+ Blocking read from event queue – eq\_sread(….) waiting for connection rep/rej
	+ Application context groups all the data structures – eq, prov, buf…
* IB Client RC example – for comparison
	+ Event queue attr, completion queue attr and queue depth setup
	+ Enable event queue – transition to active state, same as IB modify\_qp
	+ Event queue current non-blocking is polling based, is callback method desired?
	+ Memory registration – blocking
	+ For connection request, sizeof (event) covers private data if used. Private data will be at the end of the event definition.
	+ Get the local interface fi\_info from event and create end point based on it for incoming connection request
	+ Now we are connected similar to IB/RC except more generic than IB.
* Data transfers
	+ Fi\_send fi\_recv(single buffer) and fi\_recvv (takes an iovec)
	+ Src\_addr specifies source address to receive from. If NULL, receive from anyone for datagram service
	+ Fi\_msg fi\_recvmsg fi\_sendmsg
	+ Fi\_multi\_recv let big buffer gets filled up before completion
	+ Fi\_remote\_complete data reaches sink memory before reporting completion.
	+ Do those APIs cover what we need?

**Agenda for next meeting**

* Continued discussion on KOFI data transfers (Stan)

**Next regular telecom**

Next meeting: Tuesday, 4/14/15.

8am-9am Pacific daylight time

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

<https://cisco.webex.com/cisco/j.php?J=200935598&PW=67935ad6df07030d5f05044a5b0f>