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

**Agenda**

* Work through the ‘endpoints table’ from the face-to-face.

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

Six endpoint types defined, the three key ones are; Datagram (unreliable), Msg (reliable connected) and RDM (reliable datagram).

Here is the table as it stood at the end of the f-2-f:

**Atomic CM Msg RMA Tagged Trigger**

**11 EP-Dgrm [\*] [F] [1] [\*] [\*] [\*]**

**12 EP-Msg [p] [1] [1] [1] [?] [?]**

**13 EP-Pkt [\*] [\*] [F] [\*] [\*] [\*]**

**14 EP-Raw [\*] [\*] [F] [\*] [\*] [\*]**

**15 EP-RDM [1] [F] [1] [1] [1] [F]**

F- future

p-partial implementation

\* - n/a

1 – required for rel 1.0

? – not clear yet

Q: Of the ones marked as ‘1’ (must have), how close are we?

A: There are implementations, but they are often disjoint. We talked at the f-2-f about having a model provider implementation for each.

Focusing on the ? marks in the table:

**Tagged operations over a Msg EP**: Does a messaging interface really need tagged operations since the messaging EP is connection oriented?

OpenMPI would like to use libfabric as a drop in replacement for PSM within the next year and may need this. One difference: EP-Msg is connection-oriented, but PSM is unconnected.

EP-Msg is connected, but PSM is unconnected.

Tagged ops in a Message-based, connected world could be used for active messages (easy way to invoke callbacks). A useful way to avoid a copy by sending the function along.

Change this to an ‘F’ for future effort.

GASnet (PGAS) could use this to identify different kinds of active messages.

**Triggered operations for the Msg EP**: possible application are MPI non-blocking collectives. Triggered operations are an emerging field. There are some vendors who have done some work on triggered ops, but unclear what the IP issues are surrounding these. Change the ‘?’ to an ‘F’.

Atomic operations for the Msg EP: The ‘p’ means that only the IB subset of atomics have been implemented; these are the required minimum set.

Atomics are particularly applicable to OpenSHMEM, OpenMPI and PGAS compilers. Leave this marked as ‘p’.

Unreliable connected EP? No demand for this.

Updated table is now:

**Atomic CM Msg RMA Tagged Trigger**

**11 EP-Dgrm [\*] [F] [1] [\*] [\*] [\*]**

**15 EP-RDM [1] [F] [1] [1] [1] [F]**

**12 EP-Msg [p] [1] [1] [1] [F] [F]**

**13 EP-Pkt [\*] [\*] [F] [\*] [\*] [\*]**

**14 EP-Raw [\*] [\*] [F] [\*] [\*] [\*]**

F- future

p-partial implementation

\* - n/a

1 – required for rel 1.0

? – not clear yet

**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