**OFI WG Bi-Weekly telecom – 10/04/2016**

**Agenda:**

* Code walkthrough – Intel proposal for Collective offload
* Sockets semantics

**MPI Collectives Offload Proposal – see Sayantan’s slides**

* Completion of some operation starts execution of some other operation.
* Added a new completion counter,
* New flags indicate how the new threshold structure should be used.
* Allows chaining together of unrelated sequences to allow operations to be triggered.
* Discussion centered around whether these mechanisms are too low level, or if they are better offered as a higher level abstraction. In particular its use for non-blocking collectives.
* Trend seems to be that small extensions to existing counter functions could probably achieve almost the same thing.

**Support for Socket Semantics**

* Started with original sockets requirements slide deck
* Two possible methods to implement; Circular Buffer, or Message Queue
* Rsockets implements both, one for datagram, the other for streaming operations
* Original thought had been to port rsockets to libfabric, but on reflection that may not be optimal.
* Instead, consider multiple provider implementations. Allows any given implementation to optimize for datagram or streaming while preserving the sockets semantics at the API.

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| [**Play recording**](https://cisco.webex.com/ciscosales/lsr.php?RCID=a0ed093c856c4408aba3dd1169acc627) (53 min 59 sec) |
| Recording password: sQ2f8hJY |  |

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Webex password: ofi

**OFIWG Download Site:** [www.openfabrics.org/downloads/OFIWG](http://www.openfabrics.org/downloads/OFIWG)

**Github:** <https://github.com/ofiwg/libfabric>

**OFI Software Download Site:** [www.openfabrics.org/downloads/OFI](http://www.openfabrics.org/downloads/OFIWG)

**Next regular telecon**

Next meeting: Tuesday, 10/4/16

9am – 10am Pacific daylight time