**OFI WG Weekly telecom – 05/12/2015**

**Agenda:**

* Roll call, agenda bashing
* Working through Issues list in preparation for next release

**Post Release 1.0 – See Sean’s email 4/30/15 – [ofiwg] post OFI 1.0**

Currently about 50 open issues in GitHub. May be able to hit one or two of these for the Q2 release, the rest should be addressed in the Q3 release.

\* Support more efficient formats for iovec's (32)

What formats should be targeted?

How are the new formats used with the existing APIs?

Are new APIs required to use the new formats?

- Proposal is to create a ‘strided’ iovector

- May require some kind of a flag for the provider to indicate if it supports this or not.

- Can a stride be negative, i.e. stride backwards through a data segment?

AR – Sean – create a specific patch to be discussed.

\* Multicast support (1001)

How are multicast groups joined?

How are multicast addresses specified to the provider?

Does multicast introduce a new set of APIs, or reuse/extend existing ones?

- Multicast existed originally in the API, but was taken out because of some confusion as to whether a given transaction is unicast or multicast.

- Original proposal assumed that a given endpoint would join only a handful of multicast groups.

- Are multicast groups defined as part of the address vector, or through some other mechanism?

- Do we need a new set of multicast functions, or can we re-use existing functions?

- What about establishing multicast capability as a property of the EP?

AR – Dave Goodell – bone up on IP/Enet multicasting

- Could define endpoints to be unicast only, multicast only, or both. This would eliminate the branch, except for the case where an EP is configured for both. This assumes that the address space is partitioned into a multicast space and a unicast space (assign a bit to indicate mcast).

- Are there use cases that require an EP to support both simultaneously? Christoph may have such a use case.

\* Topology (253)

What does the topology data look like?

How do providers discover and report topology information?

\* AV support for exchanging provider specific data (298)

Providers may be able to take advantage of apps that exchange

data out of band. What would such an interface look like?

- This comes from a USnic discussion, originally raised by Reese.

- Example: an app using an IP address, puts the IP address into the AV, which gets resolved into a MAC ID. Rather than have each node do its own resolution, there may be mechanisms for doing the resolution once and exchanging that information out of band to help avoid e.g. ARP storms.

- Take this one offline for a while, then bring it back here. (Goodell, Squyres, Hefty)

\* Domain events (244)

What event types and data should be reported?

\* Environment variables (177)

There was a discussion for registering environment variables with the

framework, so that all active variables could be exported by the

framework and documented.

Webex link: <https://cisco.webex.com/ciscosales/j.php?MTID=m9389b0513c9ae643d57e2381e254dcf5>  
Webex password: ofi

**Future Agenda Topics:**

**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)

**Link to WebEx Recording** - no recording

**Next regular telecon**

Next meeting: Tuesday, 5/19/15

9am-10am Pacific daylight time