**OFI WG telecon – 02/12/2019**

**Agenda:**

1. Opens
2. Doug Voigt will present an overview and discussion of the latest updates to the SNIA whitepaper, “NVM Programming Model Remote Access for High Availability”.

**Opens**

None

**Discussion – Updates to SNIA whitepaper – NVM Programming Model for HA – Doug Voigt**

* Acknowledged arrival of new interconnects like OpenCAPI and GenZ.
* Introduced new expression, RPMA – RPM Access
* Added Section 4.2 – Visibility vs Persistence. They are not the same. This is unsurprising to OFIWG; libfabric anticipates this distinction.
* Added Section 4.8 – Flush Synchronization, Ordering and Scope. Two new elements:
  + The concept of optimized flush is being modified
  + Added a distinction between async flush from async drain
  + Flush does not wait for flushes to complete, whereas Drain does wait for the flush to complete.
  + Optimized Flush is simply a hard coded version. Optimized Flush is a blocking call, you can build up an Optimized Flush comprised of an Async\_Flush and an Async\_Drain, where the Drain is a blocking function.
* Created the notion of a ‘Nexus’ that is used to govern ordering.
* Section 4.9 Integrity Checking added. Resolves the misconception that this is similar to ‘write w/ verify’ in the hard disk world.
* Updates to Section 6 – RPMA for HA. The ladder diagram is an illustrative diagram based on RDMA semantics.
* Security section (formerly section 7) has been deleted, and replaced by a separate, more comprehensive SNIA Security Whitepaper. Turns out that security is not unique to RPM.
* Section 7 – Error handling section beefed up and clarified.
* Section 8 Requirements Summary was re-written
* Testing Appendix removed, debated removing the atomicity appendix, but elected to keep it for now.
* Comment period remains open. Goal is to release a final version approximately July. Or at least submit it to the SNIA hierarchy for ratification approval. Ideal would be to receive comments
* More broadly, OFIWG members should expect to see the beginnings of a whitepaper similar to the one Doug reviewed today, but focused on identifying other use cases beyond HA.
  + Quite a bit of work has been accomplished on that through the vehicle of presentations at various industry forums over the past two years (OFA Workshop, Flash Memory Summit, Persistent Memory Summit…). The first draft of a new OFIWG whitepaper would likely be based on the work captured in those presentations.

**Next meeting**

Tuesday, February 26, 2019

9:00 – 10:00AM PST

**Recording:**

**Webex link:** See the OFA central calendar for meeting logistics. <https://openfabrics.org/index.php/ofa-calendar.html>

**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)