**OFI Data Storage / Data Access Subteam Weekly telecom – 01/19/2016**

**DS/DA Shared Documents:** <http://downloads.openfabrics.org/WorkGroups/ofiwg/>

**Agenda**

* roll call, agenda bashing
* kernel maintainer slides

**Kernel maintainer slide deck – kfabric-maintainer discussion\_2016\_0118.pptx**

* Slide 11 – team agrees that this is generally the right direction. Need a drawing to make the point that NVM is the stimulus for a change in the traditional storage transaction model
* NVM section – include a brief description of how NVMe/NVMef relate to kfabric. How is it different compared to NVMe/NVMef? Is there overlap?
* Slide 16 byte addressable memory can be accessed from kernel or user space, block I/O is kernel space only. Today, local block storage is accessed via VFS.
* Key point – NVM devices today export a block level interface, even though the underlying geometry may be byte level. In the future, we expect NVM to export a native byte level interface.
* Kfabric should be architected to support that. In other words, we want to be sure that we don’t inadvertently build block level thinking into the API.
	+ Think of NVMe as a block level ULP for storage over PCIe. The equivalent byte level ULP doesn’t yet exist, at least not publicly, but we expect that it will at some point.
* In theory, the one-sided constructs built into libfabric (and kfabric) should support this kind of remote byte level access.
* Flop slides 17 & 16 – do the remote case first.
* Slide 17 – add a third bullet to the list of Consumers of NVM:
	+ User or kernel file or object storage
	+ Block storage consumers (iSER, SRP, NVMef…)
	+ byte level consumers (no ULPs defined as of yet, but we believe they are coming).

**Webex Recording:** [**Play recording**](https://cisco.webex.com/ciscosales/ldr.php?RCID=318e5d77c1bb2a03570e80701874dcd0)

**Next regular telecom:**

Next meeting: Tuesday, 1/26/16

8am-9am Pacific daylight time

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

[Join WebEx meeting](https://cisco.webex.com/ciscosales/j.php?MTID=m221d8a20185d84b30daa0096aca0f182)

**Join by phone**

+1-866-432-9903 Call-in toll-free number (US/Canada)

+1-408-525-6800 Call-in toll number (US/Canada)

Access code: 201 212 241