



OPENFABRICS  
ALLIANCE

Linux Plumbers 2017

# OpenFabrics Alliance - Status and New Directions

Jason Gunthorpe

Director At Large, OpenFabrics Alliance

[ September, 2017 ]

# What is the OFA

- 'Alliance' of 27 member companies and organizations

*The OpenFabrics Alliance (OFA) is an open source-based organization that develops, tests, licenses, supports and distributes OpenFabrics Software (OFS). The Alliance's mission is to develop and promote software that enables maximum application efficiency by delivering wire-speed messaging, ultra-low latencies and maximum bandwidth directly to applications with minimal CPU overhead.*

**Operates as a California 501(c)(6) Corporation.**

# What it Does Today

- **The Alliance directly manages:**
  - An annual conference: 5 days, 100-150 attendees (OpenFabrics Workshop)
  - An interoperability logo program in partnership with the University of New Hampshire InterOperability Laboratory (IWG)
  - Hosting for some items, mailing lists and web sites
  - Marketing (MWG)
  - RDMA Training materials
- **Staff working for Alliance members work on open source projects within OFA working groups:**
  - OFIWG (libfabric/etc)
  - OFVWG (common verbs APIs/etc)
  - OFED (EWG)

# What it Doesn't Do

- **In relation to the RDMA and fabric related open source projects, the OFA does NOT:**
  - Own any source code or hold any copyrights
  - Hold trademarks, logos, domain names, etc related to open source
  - Own accounts (eg github/etc) acting as the home for projects
  - Provide respected technical dispute resolution mechanism
  - Enforce copyright licensing policies for non-members

*OFA expects members to follow their membership agreement when contributing to 'some' software.*

# Change is in the Air

**The OFA board is revisiting its bylaws and re-evaluating its purpose:**

- **The board has been trying to determine what open source software the OFA is connected to**
- **There is a desire from some members and the current board to increase the support the OFA provides the open source software stack, and transition to more like a modern open source non-profit**

**Some members are talking about:**

- **Revising/re-purposing the Logo events at UNH-IOL**
- **Only manage the yearly workshop**
- **Directly fund development and/or shared cloud resources**

# Change has Already Happened

- **Modern OFA OFED is officially a ‘backport only’ and ‘upstream first’ development. Changed from an experimental fork serving new development a long time ago.**  
**This rule has not always been rigidly followed, but is agreed up on by the board**  
*NOTE: Vendor OFED is not under the control of the OFA and the OFA does not enforce a trademark on ‘OFED’.*
- **libfabric is a new project built inside the OFA following an informal collaborative model**
- **OFA Workshop talk selection is now done by a selection committee, instead of by the board**
- **The OFA Board and Membership has a much better understanding of how licensing works in Open Source, and their role in the process**

# What is possible?

**At this point, there is a chance to shape a new direction:**

- Discuss ideas during this time slot**
- If your organization is a member, contact your OFA representative and discuss**
- Speak to Susan Coulter or myself privately**

**The Board has a mission statement under discussion:**

***Provide a neutral environment for community assets and infrastructure in support of highly performant networking software development, enhancement, and integration of that software with new and emerging technologies.***

# Typical Modern Open Source Non-Profit

## Developers typically want:

- **Make development easier. Lower friction. Grow the developer community.**
- **Support technical collaboration: conferences, mailing lists, servers, etc**
- **Neutral forum for technical activities**

## Members typically want a *reliable* base to build their value-add on top of:

- **Safe-guard and maintain shared assets, resources and sometimes IP eg continuity of the project(s)**
- **Confidence in the Legal Status of the shared IP**
- **Marketing / User / Community Enablement and Growth**
- **Technical Dispute Resolution (eg avoid a crisis leading to a fork)**
- **Extra Value for their membership level**



# Example: Linux Foundation

Typical Linux Foundation Collaborative Project, operating budget ~\$300k/year

<http://dpdk.org/about/charter>

The mission of DPDK is to:

- *Create an open source, production quality, vendor neutral software platform for enabling fast dataplane I/O, upon which users can build and run data plane applications.*
- *Host the infrastructure for the DPDK community, establishing a neutral home for community assets, infrastructure, meetings, events and collaborative discussions.*

# Example: OpenStack Foundation

Prominent Open Source organization, operating budget \$4-5 million/year

<https://www.openstack.org/join/>

<https://www.openstack.org/legal/>

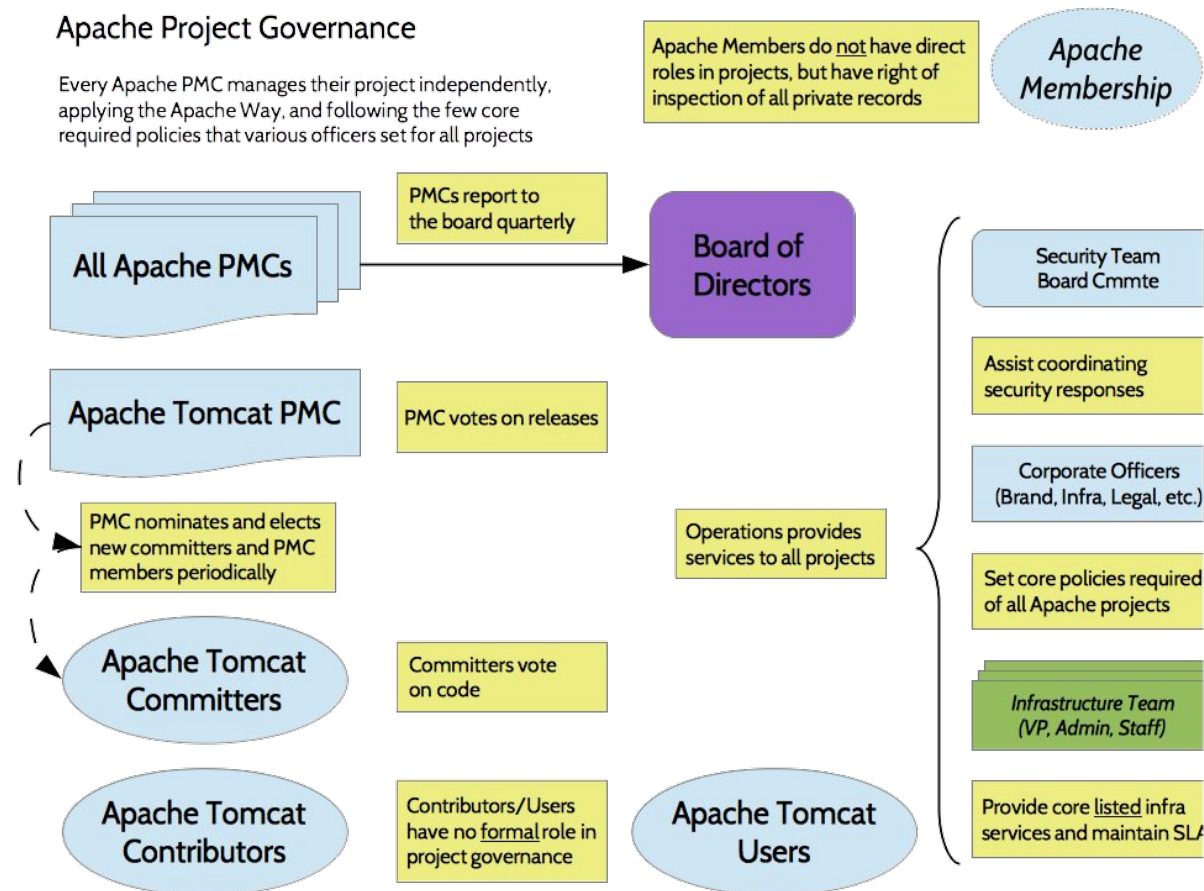
The mission of the Open Stack Foundation is:

- *The OpenStack Foundation is an independent body providing shared resources to help achieve the OpenStack Mission by Protecting, Empowering, and Promoting OpenStack software and the community around it, including users, developers and the entire ecosystem.*

# Example: Apache Software Foundation

## Stewards Open Source projects using 'The Apache Way':

- High degree of independence from corporate control
- Budget ~\$1 million/year, runs about two annual conferences
- Each project has a Project Management Committee overseeing the health of the project
- Holds trademarks, runs infrastructure and provides legal protection for committers and participants



From Apache.org

# Discussion Topics

- **OFED backport project**  
**Continue? Stop?**
- **Forum for technical decisions related to common APIs**  
**eg OFVWG / OFIWG**
- **Logo program**  
**Continue? Stop? Repurpose?**
- **Different approach to the Conference?**
- **End user & developer training?**
- **Directly fund development?**
- **Steward 'backup' credentials - eg admin github logins/etc?**  
**Safeguard overall community from AWOL maintainers.**
- **Fund Cloud service accounts (eg AWS, GCE, CI, etc)?**
- **Establish a Technical Board?**



OPENFABRICS  
ALLIANCE

Linux Plumbers 2017

**THANK YOU**

Jason Gunthorpe

Director At Large, Open Fabrics Alliance