



OPENFABRICS ALLIANCE

Re-Introduction & Organizational Overview

[August 2018]

OFA MISSION STATEMENT

“The mission of the OpenFabrics Alliance (OFA) is to accelerate the development and adoption of advanced fabrics for the benefit of the advanced networks ecosystem.

The mission is accomplished by; creating opportunities for collaboration among those who develop and deploy such fabrics, incubating and evolving vendor independent open source software for fabrics, and supporting and promoting the use of such fabric technology software.”

ABOUT THE ALLIANCE

The OFA advances the development of open source software for networking and supports and maintains existing fabric technologies

Enables the development of software for fabrics

Provides a forum for collaboration, communication and education to support fabric technologies

Promotes fabric technologies, including emerging usages for such technologies

Provides programs to support fabric technology such as training, testing, validation

Facilitates partnerships with related organizations and communities such as SNIA, Linux kernel communities, and others

ADVANCED NETWORKS SOFTWARE

- **Advanced Networks Software** is a suite of high performance APIs and associated software for current and future HPC, cloud and enterprise data centers. It is focused on applications requiring more efficient networking, faster storage connectivity, and scalable parallel computing.

- The OFA is actively developing and supporting the following fabric technologies:
 - Kernel modules to support kernel level applications:
 - Storage Technologies (Lustre™, SRP, NVMoF, etc)
 - Legacy Communication (Sockets)
 - User mode APIs based on:
 - Verbs supporting InfiniBand-style networks
 - OpenFabrics Interfaces (OFI) providing a higher level semantic that is network independent
 - Emerging and future networks:
 - Remote Persistent Memory

ANNUAL OFA WORKSHOP

- A premier means of fostering collaboration among those who develop fabrics, deploy fabrics, and create applications that rely on fabrics
- Only event of its kind where fabric developers and users discuss emerging fabric technologies, collaborate on future industry requirements, and address problems that exist today
- Workshop participants include:
 - Application developers and end users
 - Communications middleware developers
 - Network and storage vendors and researchers
 - OS solutions developers
 - Enterprise data center managers and architects
 - System & network administrators
 - System OEMs, architects & integrators
 - Kernel developers and maintainers



OFA WORKING GROUPS

▪ Enterprise Working Group (EWG)

- The EWG qualifies and tests OFED, the Enterprise Distribution for Linux based on the upstream kernel and upstream rdma-core, libfabric, and other user-space packages with backports for the popular Linux distributions, RHEL and SLES, and ensures robustness and applicability for commercial usage on those distributions.

▪ Interoperability Working Group (IWG)

- The IWG validates and certifies commercial products that interoperate with Advanced Network Software OFS

▪ Marketing Working Group (MWG)

- The MWG ensures OFA's strategy is carried out by promoting the advancement in fabrics accomplished by the innovation of our members, partners and OpenFabrics community. MWG also fosters collaboration among the community by driving OFA annual workshop, training sessions and increasing OFA awareness at partner events.

▪ OpenFabrics Interfaces Working Group (OFIWG)

- The OFIWG develops software interfaces that enable a tight semantic match between applications and high-performance networking services.

▪ OpenFabrics Verbs Working Group (OFVWG)

- The OFVWG is committed to enhancing the verbs interface to meet the needs of future systems and applications

CURRENT MEMBERSHIP

Promoters



Lawrence Livermore
National Laboratory



Oak Ridge
National Laboratory



Sandia
National Laboratory

Adopters

Argonne
National Laboratory



Supporters



Consulting
Participants



Industry
Alliances



OFA INDUSTRY ALLIANCE PROGRAM

- Objective:
 - Enable greater industry collaboration with OFA experts and Working Groups to jointly advance fabric technologies

- Alliance Benefits:
 - Provides a platform to incubate and evolve vendor independent open source software for fabrics
 - Drives technical deliverables to the benefit of both organizations and the industry as a whole
 - Offers joint marketing programs to support technical deliverables
 - OFA Workshop participation
 - Inclusion in OFA member communications
 - Educational sessions to promote industry awareness
 - Promote adoption of the innovative technologies and applications

- Recent OFA Partnership: SNIA – Solid-State Storage Initiative
 - [04/09/2018] [Media Alert: SNIA and OpenFabrics Alliance Announce Collaboration](#)

MEMBERSHIP BENEFITS

The OFA facilitates working relationships among the developers, testers and end users in the open source fabrics community to accelerate the development and adoption of fabric technologies

Membership in the OFA provides:

- Members are key influencers in the development of open source software for fabrics, OpenFabrics interoperability testing and OFA promotional activities
- Networking opportunities with fellow members and access to a larger community of industry organizations and thought leaders through the OFA Partner Alliance Program
- Publicity and marketing opportunities in conjunction with OFA activities at tradeshow, conferences and workshops

MEMBERSHIP LEVELS

[JOIN NOW](#) and become part of ongoing RDMA development with the OpenFabrics Alliance.

■ Promoter

- Strongly influence the outreach, programs, partnerships, conferences and marketing of the OFA
- Individuals from Promoter Member organizations are allowed to be nominated for Board Officer and Working Group Chair/Co-Chair positions.
- All the benefits of Adopter and Supporter levels are included in this level.

■ Adopter

- Participate in the testing programs offered by the OFIWGA.
- Voting member of any Working Group they participate in.
- All the benefits of the Supporter level are included in this level.

■ Supporter

- Kept informed of the outreach, programs, partnerships, conferences and marketing efforts as they are being implemented.
- Listed on our website and promoted at the annual OpenFabrics Workshop.
- One free pass to the annual Workshop speaker.

■ Partner Member

- Organizations and Trade Associations can jointly define and solve challenges in advancing fabric technologies to the benefit of both organizations and the industry as a whole.
- Leverage the OFA platform to incubate and evolve vendor independent open source software.
- Promote the resulting innovation at the annual OFA Workshop and industry events for community education, promotion and awareness.



OPENFABRICS
ALLIANCE

THANK YOU