



OPENFABRICS
ALLIANCE

13th ANNUAL WORKSHOP 2017

STATE OF THE ALLIANCE

Susan Coulter / Chair of the Board of Directors

Los Alamos National Laboratory

[March 28, 2017]

LA-UR-17-22450

HOW DID I GET HERE ?

■ LANL / HPC

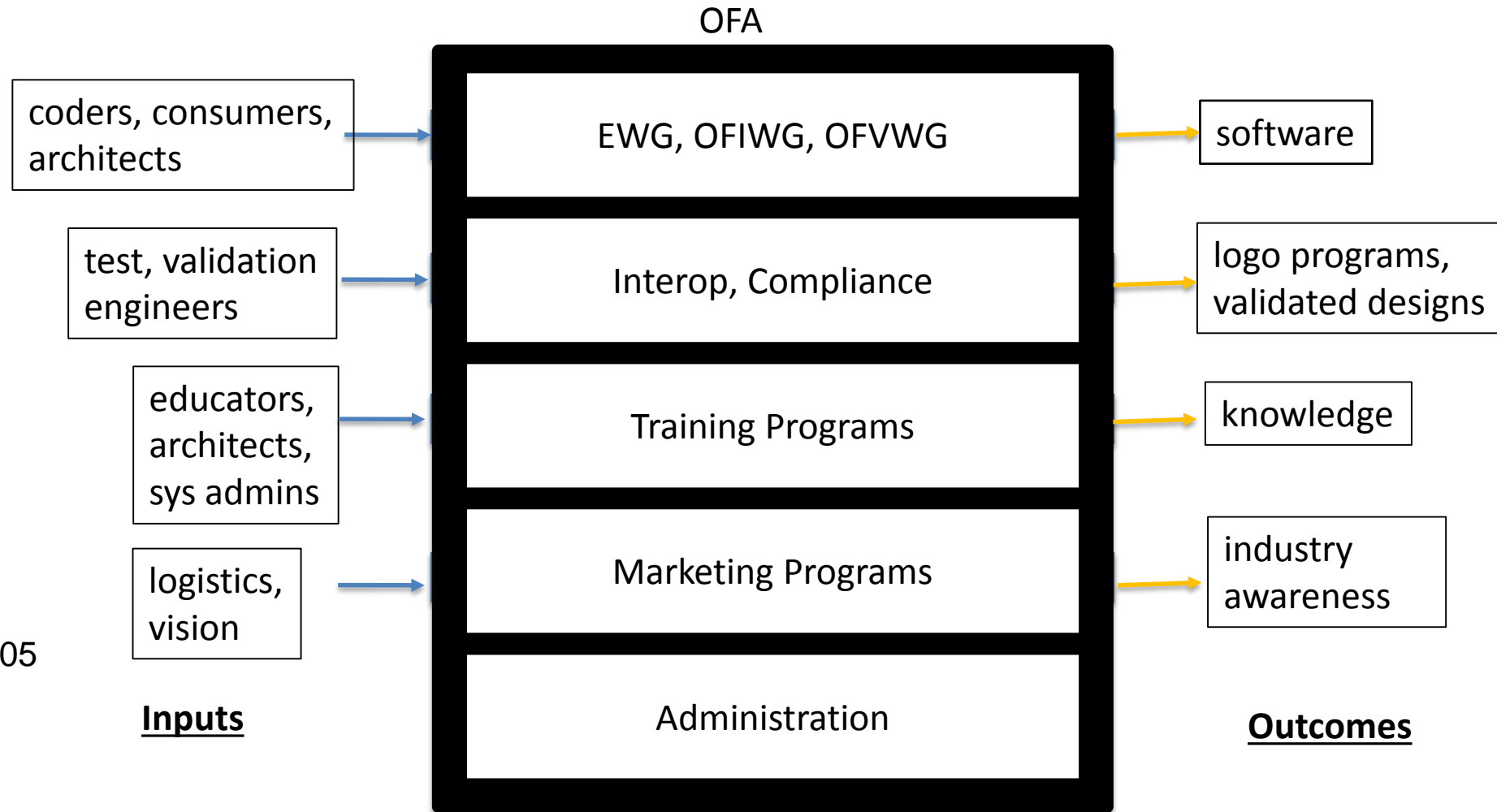
- Cluster System Administrator ~2005
- Network Team ~2010
- Deployment not Development
- Started a User's Group (IBUG)
- Administrator-focused presentations at this workshop

■ OFA Board of Directors

- Re-up'd LANL membership
- Jim Ryan retired
- Desire for non-vendor as Chair



WHAT IS THE OFA ?



■ OpenFabrics Alliance

- OpenIB, Inc.
 - California corporation 1/6/2005
- Changed to OpenFabrics, Inc
- Pushed code upstream
- Created Verbs training class
- Created InterOp

OFA SUCCESS



■ OpenFabrics Alliance

- OpenIB, Inc.
 - California corporation 1/6/2005
- Changed to OpenFabrics, Inc

- 
- A large red checkmark icon inside a black square frame, indicating a successful outcome or goal.
- Push code upstream – get OpenFabrics software into the kernel and the distros
 - Market and facilitate the technology

RECENT WORK

13th Annual OpenFabrics Alliance Workshop

March 27 - 31, 2017
Hyatt Regency Austin
Austin, TX. U.S.A

An ongoing collaboration between OpenFabrics Software (OFS) producers and users is necessary to address difficult network challenges. The 13th Annual OpenFabrics Alliance (OFA) Workshop is a key industry event encouraging a dialogue that is geared toward strengthening high-performance networks end-to-end and represents a joint effort among open source networking community members.

The Workshop is driven by the needs and interests of the attendees and, as a result, the audience profiles continue to expand. Attending software developers and distributors are now joined by a growing number of OFS consumers including:

- **Application end users**
- **Enterprise data center managers**
- **Network technology researchers**
- **Networking middleware developers**
- **Operating system vendors**
- **Storage vendors**
- **System & network administrators**
- **System OEMs, architects & integrators**

■ This workshop

- Bill Lee and the MWG
 - Logistics, location, advertisement
 - Scheduling, agenda
- Paul Grun and the Technical Program Committee
 - Easy Chair / Submission Review

RECENT WORK

■ Online Calendar

- Working Groups and associated meetings
 - Call in details
- Board Meetings, etc
 - How to get involved

	◀ February		March 16, 2017			April ▶	
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9	26	27	28	1	2 10:00am XWG	3	4
10	5	6 11:00am Technical Progr ...	7 08:00am OFI DS/DA 10:00am OFA-IWG Meeting ... 11:00am OFVWG	8	9 10:00am XWG 01:00pm MWG	10	11
11	12	13 09:00am EWG 11:00am Technical Progr ...	14 09:00am OFIWG 11:00am OFVWG	15	16	17	18
12	19	20	21 08:00am OFI DS/DA 10:00am OFA-IWG Meeting ... 11:00am OFVWG	22	23 10:00am XWG 01:00pm MWG	24	25
13	26	27 09:00am EWG	28 09:00am OFIWG 11:00am OFVWG	29	30 10:00am XWG	31	1
EWG Interop WG XWG OFVWG OFIWG General Board OFI DS/DA MWG All Categories							

RECENT WORK

■ Training

- Developed a number of years ago
- Offered by UNH-IOL
- Now accessible via OFA website
 - Free to all
 - Can be used to offer classes for profit
 - Would love to receive feedback and updates

Training Overview

Welcome to the OpenFabrics Alliance (OFA) training materials. These materials provide information on how to program using “verbs”, as explained in the attached PDFs, to take advantage of Remote Direct Memory Access (RDMA).

The OFA training program comprises three presentations and a suite of code examples. You can download the presentations and suite of examples individually (the examples are packaged in a zip file), or download the entire set of files in a single zip file.

The OFA invested in the development of these materials to facilitate the mastering of coding techniques and concepts that are required in RDMA. The materials are free for your use under the license terms, which you must acknowledge to access the materials. The terms are also shown in the training documents.

Terms of Use

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The license itself is at <https://www.gnu.org/licenses/fdl-1.3.en.html>.

Feedback

Our sincere request is for you to send back comments and suggestions for improvements by marking up and adding comments to the PDFs and returning them to training@openfabrics.org.

You will need Acrobat Reader or a suitable PDF reader to open the files and mark them up.

We request your voluntary identification (email) to help us facilitate proper tracking of any markups you provide. Providing your email is optional, but it is appreciated.

Thank you.

RECENT WORK

▪ Dual License

- Bylaws dictate member contributions be dual licensed, GPL & BSD
- Wider adoption by the community allowed some GPLv2-only files to slip in
 - How many ?
 - Where are they ? (kernel space, user space)
 - What does this mean for member companies ?
 - What does this mean for OFED ?



RECENT WORK

■ Maintainer Support

- Face-to-face meetings
- 2 or 3 per year
- ~2 days each
- By invitation from Doug Ledford



RECENT WORK

▪ InterOp Expansion

- Add software distribution testing and integration
- On-demand / release candidates
- Final release
- New tests to insure functionality
- Update testing framework
 - jenkins / beaker / OpenQA



RECENT WORK

■ Bylaws Update

- Formalize officers and terms
- Dual license
- Ownership of software
- Mission going forward
- 2 At-Large Director seats

Mission going forward



TRANSPARENCY & RELEVANCE

■ At-large Directors

- Landscape has changed
- Upstream, integrated
- Developer community has expanded
- Fully open-sourced



■ Townhall – Thursday @ 5pm

- Why does the OFA matter to you ?
- Does the OFA matter to you ?
- What more/less can the OFA be doing ?
- Honest, open discussion

Mission going forward



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THANK YOU

Susan Coulter / Currently sitting in the Chair

Los Alamos National Laboratory