



Open Source is the Way Forward for Mainframe

*A look at the work and impact of the
Open Mainframe Project*





Opportunity:

Accelerate mainframe innovation
with open and collaborative
development

But how?



Antitrust Policy Notice



Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.

Antitrust Policy Notice

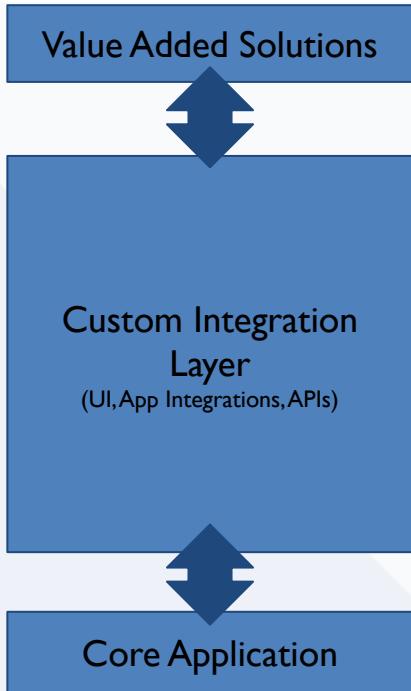


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Open Mainframe Project is a pre-competitive platform that enables cooperation and leveraged development.

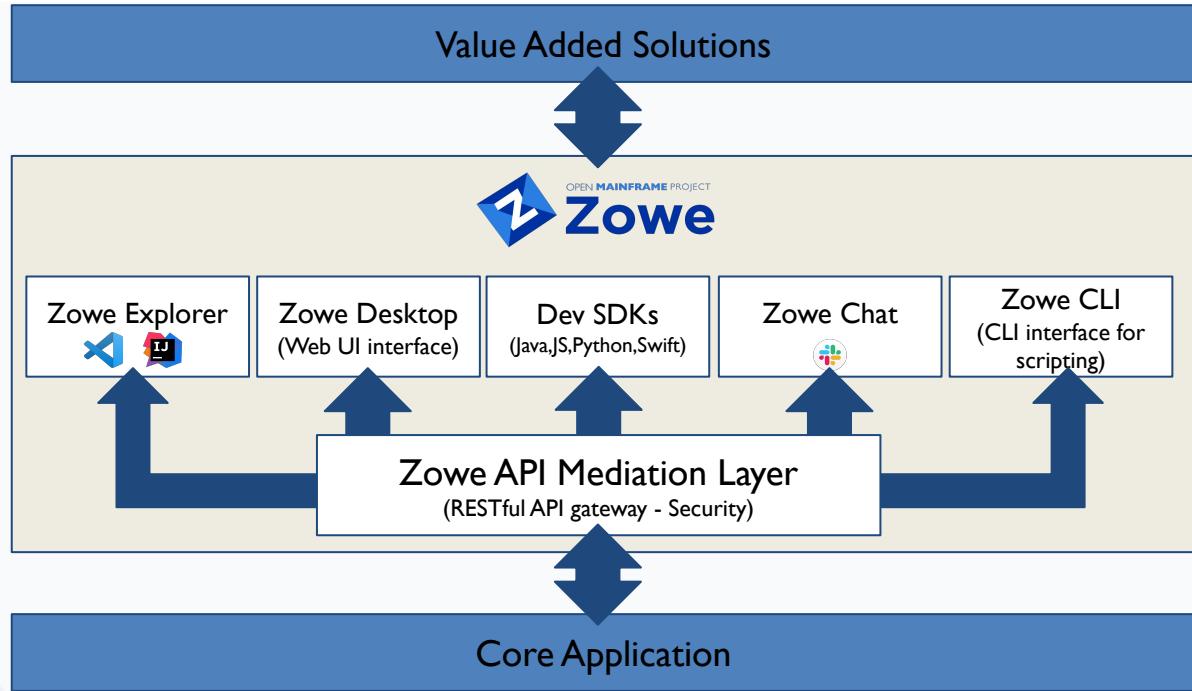
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Example: Leveraging Zowe Create Efficiencies



Without Zowe

Full stack supported and developed;
expensive R&D and hard to scale



With Zowe

Focus on Core Application and leverage Zowe components to better integrate with DevOps workflows

Cost to Create Zowe



Total Physical Source Lines of Code (SLOC)

272,536

Development Effort Estimate

64.81 (777.68) Person-Years (Person-Months)

(Basic COCOMO model, Person-Months = $2.4 * (KSLOC^{**1.05})$)

Schedule Estimate

1.70 (20.46) Years (Months)

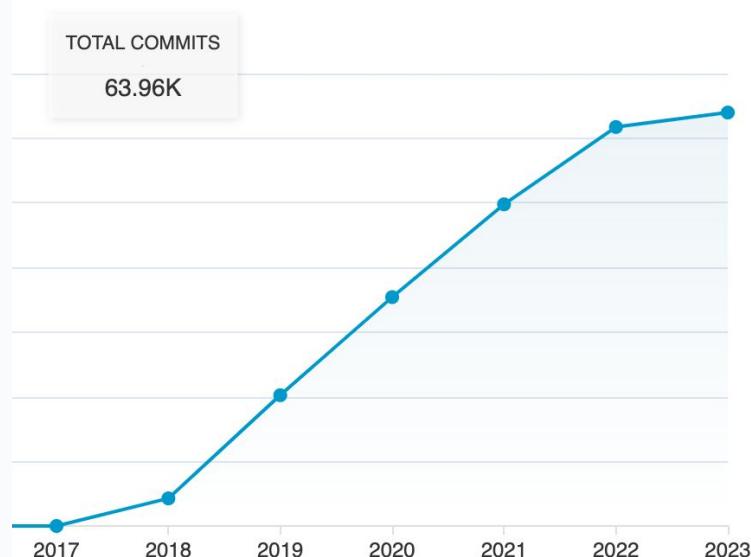
(Basic COCOMO model, Months = $2.5 * (\text{person-months}^{**0.38})$)

Total Estimated Cost to Develop

\$8,754,452

(average salary = \$56,286/year, overhead = 2.40).

generated using [David A. Wheeler's 'SLOCCount'](#)



Frequent Contributors Get High ROI From Open Source Foundation Membership

Return on Investment (ROI)

Those who **frequently** contribute code upstream



Those who **sometimes** contribute code upstream



Those who **rarely or never** contribute code upstream



Member or sponsor of an open source foundation



Pie chart does not equal 100% because of rounding.

Source: "Open Source Programs in the Enterprise - 2020" Survey.

Is your company a member or sponsor of an open source foundation(s)? (e.g., Linux Foundation, Apache Foundation, Eclipse Foundation, OpenJS Foundation) If yes, how valuable is the support and return on your investment you have received from these open source foundations? Frequently contribute code upstream, n=95; Sometimes contribute code upstream, n=53; Rarely or never contribute code upstream, n=43.



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Value of Leveraging Development

Let's say an organization accounts for 30% of contributions (3x multiplier in value as a leading organization⁽¹⁾)

This means the organization invested...

- 19.2 years of developer effort
- \$2.6M of R&D costs

and leveraged (3x multiplier⁽¹⁾)...

- **175.2 years** of developer effort
- **\$23.6M** of R&D costs

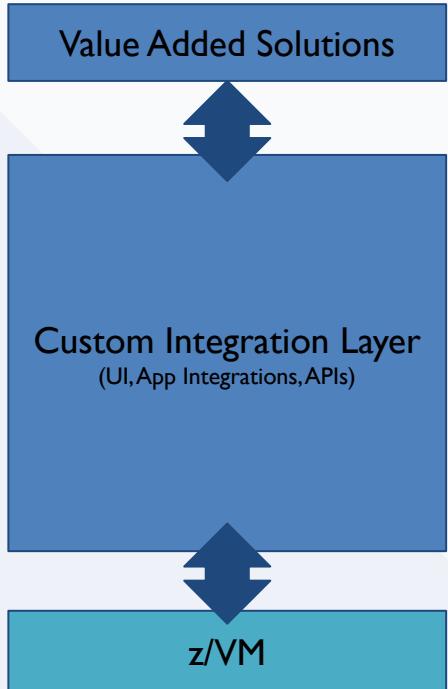
9x R&D ROI

(1) Source:

<https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/developer-velocity-how-software-excellence-fuels-business-performance#>

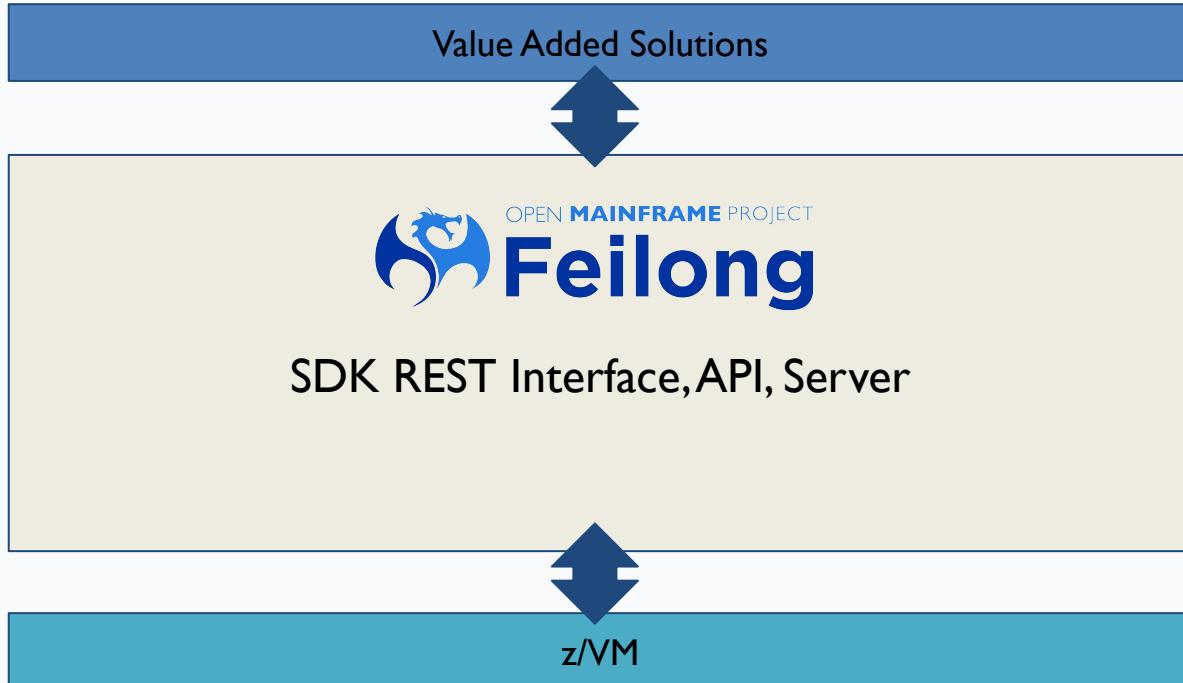


Example: Leveraging Feilong Create Efficiencies



Without Feilong

Full stack supported and developed;
expensive R&D and hard to scale



With Feilong

Vendor/Customer focus on Value Added Solutions, leverage
Feilong development



Cost to Create Feilong

Total Physical Source Lines of Code (SLOC)

91,717

Development Effort Estimate

21.82 (261.84) Person-Years (Person-Months)

(Basic COCOMO model, Person-Months = $2.4 * (KSLOC^{**1.05})$)

Schedule Estimate

1.38 (16.59) Years (Months)

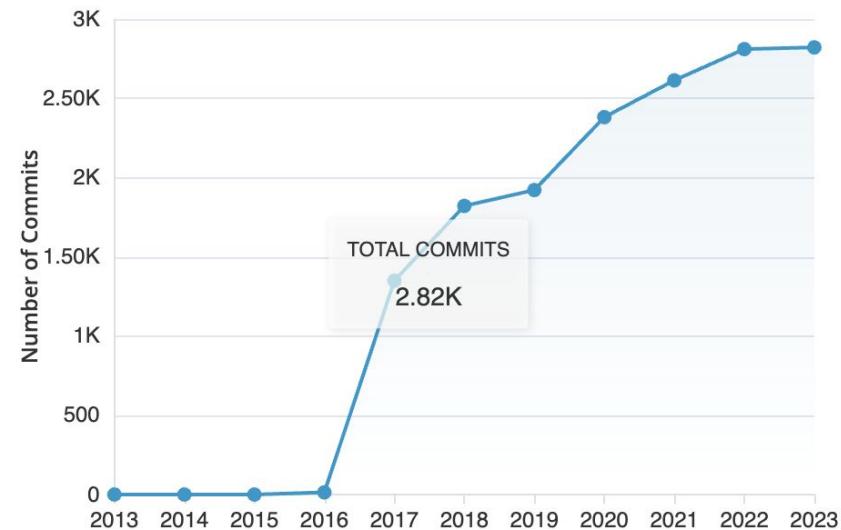
(Basic COCOMO model, Months = $2.5 * (\text{person-months}^{**0.38})$)

Total Estimated Cost to Develop

\$2,947,620

(average salary = \$56,286/year, overhead = 2.40).

generated using [David A. Wheeler's 'SLOCCount'](#)



Frequent Contributors Get High ROI From Open Source Foundation Membership

Return on Investment (ROI)

Those who **frequently** contribute code upstream



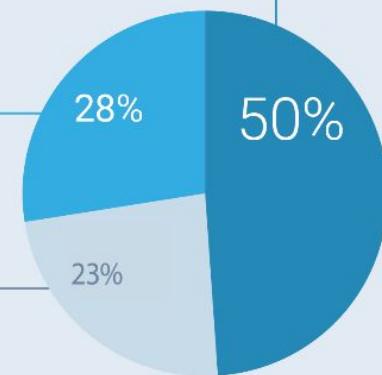
Those who **sometimes** contribute code upstream



Those who **rarely or never** contribute code upstream



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Pie chart does not equal 100% because of rounding.

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Value of Leveraging Development

Let's say an organization accounts for 30% of contributions (3x multiplier in value as a leading organization⁽¹⁾)

This means the organization invested...

- 6.55 years of developer effort
- \$884,286 of R&D costs

and leveraged (3x multiplier⁽¹⁾)...

- **65.46 years** of developer effort
- **\$8.8M** of R&D costs

7x R&D ROI

(1) Source:

<https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/developer-velocity-how-software-excellence-fuels-business-performance>

But there are more benefits than just pure R&D



- Leadership
 - ◆ Top contributing organizations in best position to drive ecosystem direction.
 - ◆ End-users more likely to work with vendors who are primary contributors and invest in upstream projects.
- Supply chain efficiencies
 - ◆ License and security vulnerability management done in upstream project
 - ◆ Partner and developer onboarding can leverage broad community versus specific vendor resources.
- Vendor-neutral outreach and training
 - ◆ Technology enablement done at project level
 - ◆ Vendor can focus on specific value adds.

Typical ROI 5x-40x

dependent on membership, staff, and product investment



Challenge:

How can we grow and sustain
open source on mainframe?

Successful open collaboration ecosystems comes down to four core factors.

Neutrality

No one company or organization can “take it away” from the community that forms around a project.

IP Clarity

Removal of IP uncertainty enables anyone to get involved as a contributor or implement as a user.

Open Governance Do-ocracy

The most successful projects that have stood the test of time have neutral, open governance models where those who do the work make the decisions in a defined governance model.

Financial Support Ecosystem

Encouraging academic, government, and commercial engagement in leads to jobs, faster adoption, new contributions and features that address new use cases.



Enter Open Mainframe Project

Open Mainframe Project believes...

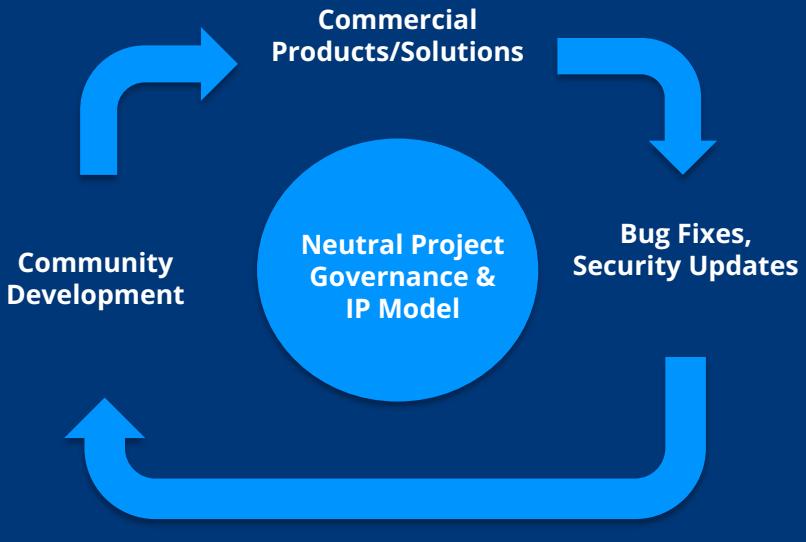
- that leading organizations leverage their **technology infrastructure as a competitive advantage**.
- that the mainframe design principles of **security, stability, scalability, and performance are important** to these leading organizations
- **having the mainframe interoperable** in a hybrid infrastructure enables leading organizations to realize its benefits.
- technical advancements that are needed by the mainframe community can be **better achieved through open source**.



Projects support a continuous, sustainable ecosystem.

Under the LF model projects become part of a continuous, sustainable ecosystem

- Sustainable projects have a developer community
- A developer community's technology is used in commercial solutions that profit businesses
- The businesses then participate and reinvest back into the project
- The businesses then hire developers to work in the community



Commercial dependency drives a virtuous cycle of commercial and community engagement based on accepted governance and IP models



OPEN MAINFRAME PROJECT

The Open Mainframe Project was founded in 2015, as a focal point for deployment and use of Linux and Open Source in a mainframe computing environment.

Open Source is the collective thread within leading organizations that look to leverage their technology infrastructure as a competitive advantage. The mainframe design principles of security, stability, scalability, and performance are important to these leading organizations, and having the mainframe interoperable in a hybrid infrastructure enables leading organizations to realize its benefits. Open Mainframe Project believes this is best achieved as a community through open source.

Open Mainframe Project hosts 17 projects and working groups and is supported by 40 organizations.

Vision

The mainframe is an active, integrated, and essential part of modern enterprise IT, consumable by mainstream developers and users, and driven by a vibrant open source community.

Mission

To achieve the vision of the Open Mainframe Project by...



Setting a high bar for application development on the mainframe

through documentation, API development, and a security-first approach.



Enable the mainframe to be more consumable by developers with a transparent experience in leveraging the value propositions of the mainframe.



Showcase the mainframe of today to both the mainframe ecosystem as well as the broad enterprise IT community.



Ensure the mainframe aligns well in the changing enterprise IT landscape of cloud-native and DevOps.

Open Mainframe Project enables this innovation

Active Open Mainframe Projects (4)



Incubation Open Mainframe Projects (7)



Sandbox Open Mainframe Projects (5)



Open Mainframe Project Working Group (3)



Learn about all Open Mainframe projects at <https://openmainframeproject.org/our-projects/>

The LF's Support Programs help communities succeed.





The Linux Foundation's goal is to create the greatest shared technology investment in history by enabling open collaboration across companies, developers and users.

We are the nonprofit organization of choice to build ecosystems that accelerate open source technology development and commercial adoption on a global scale.



We are behind some of the most critical projects in the world

Vertical Industry	 LF NETWORKING	 AUTOMOTIVE GRADE LINUX	 FINOS	 ASWF / ACADEMY SOFTWARE FOUNDATION	 LF ENERGY	 AgStack A Linux Foundation Project			
Security	 OpenSSF OPEN SOURCE SECURITY FOUNDATION	 SPDX	 Alpha-Omega	 sigstore	 OpenSSL Cryptography and SSL/TLS Toolkit	 Falco	 CONFIDENTIAL COMPUTING CONSORTIUM		
AI & Data	 LF AI & DATA	 PyTorch	 DELTA LAKE	 ONNX	 Horovod	 GraphQL	 mlflow™	 JanusGraph	
Cloud	 CLOUD NATIVE COMPUTING FOUNDATION	 FinOps Foundation	 kubernetes	 envoy	 TEKTON	 OPEN CONTAINER INITIATIVE	 OpenTelemetry	 Prometheus	
Networking	 LF CONNECTIVITY	 NEPHIO	 eBPF	 OPEN DAYLIGHT	 Anuket	 SONIC	 DPDK	 ONAP OPEN NETWORK AUTOMATION PLATFORM	 CAMARA THE TELCO GLOBAL API ALLIANCE
Edge & IoT	 LF EDGE	 Zephyr	 yocto PROJECT	 ELISA ENABLING LINUX IN SAFETY APPLICATIONS	 sel4 Security Performance Prof.	 SOUND OPEN FIRMWARE	 Linux Boot	 ACRN	
Web	 OpenJS Foundation	 node	 jQuery write less. do more.	 TLA+ FOUNDATION	 appium	 REACTIVE FOUNDATION	 DOJO	 Electron	
Visual Effects	 O3DF OPEN 3D FOUNDATION	 OpenEXR	 OpenVDB	 OCIO	 OpenCue	 open shading language	 OpenTimelineIO		
Sustainability	 OS-C	 Green Software Foundation	 INCLUSIVE NAMING	 RARE CAMP	 R consortium	 Xen Project	 Pyrrha		
Digital Trust	 OpenWallet FOUNDATION	 Hyperledger FOUNDATION	 OPEN METAVERSE FOUNDATION	 TRUST Over IP FOUNDATION	 DIF	 dizme			
Hardware	 RISC-V	 Dronecode	 OpenPOWER™	 CHIPS ALLIANCE	 3MF CONSORTIUM	 OPEN 19™			
Standards	 OVERTURE MAPS FOUNDATION	 ALLIANCE FOR OPEN MEDIA	 JOINT DEVELOPMENT FOUNDATION	 LF ENERGY CARBON DATA SPECIFICATION CONSORTIUM	 C2 PA	 AOUSD Alliance for OpenUSD	 OPENCHAIN		

Landscape of Open Source Projects Only on Mainframe

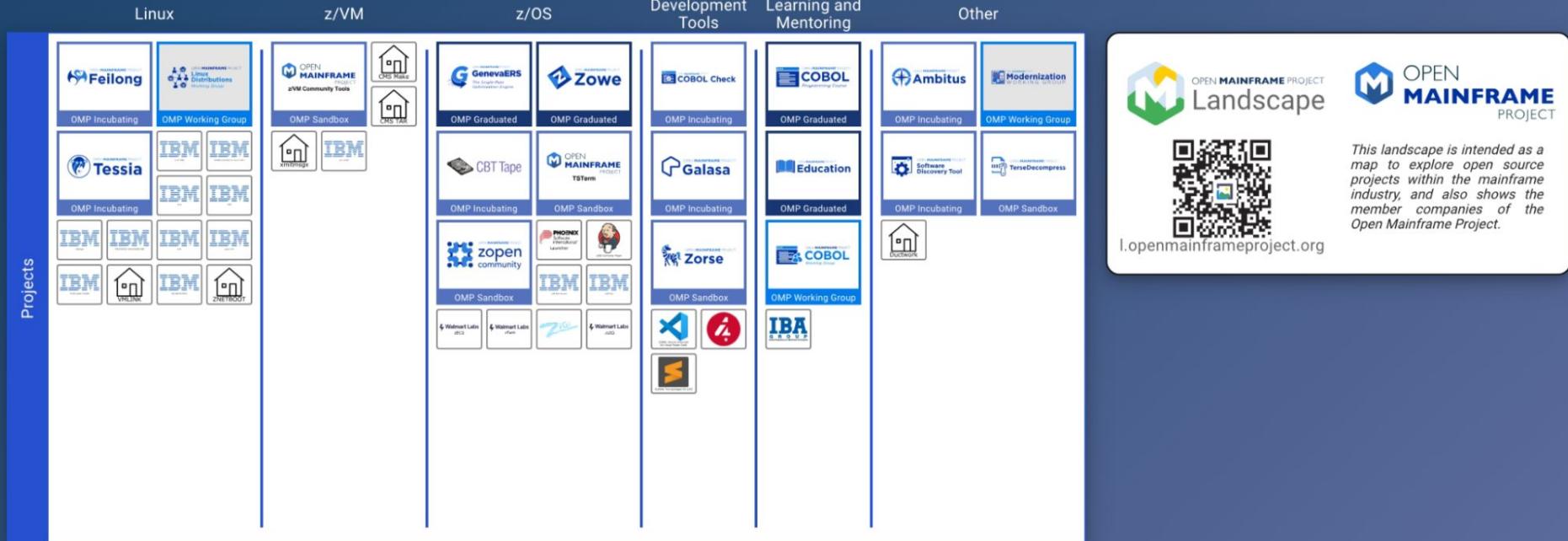


Open Mainframe Landscape

1.0

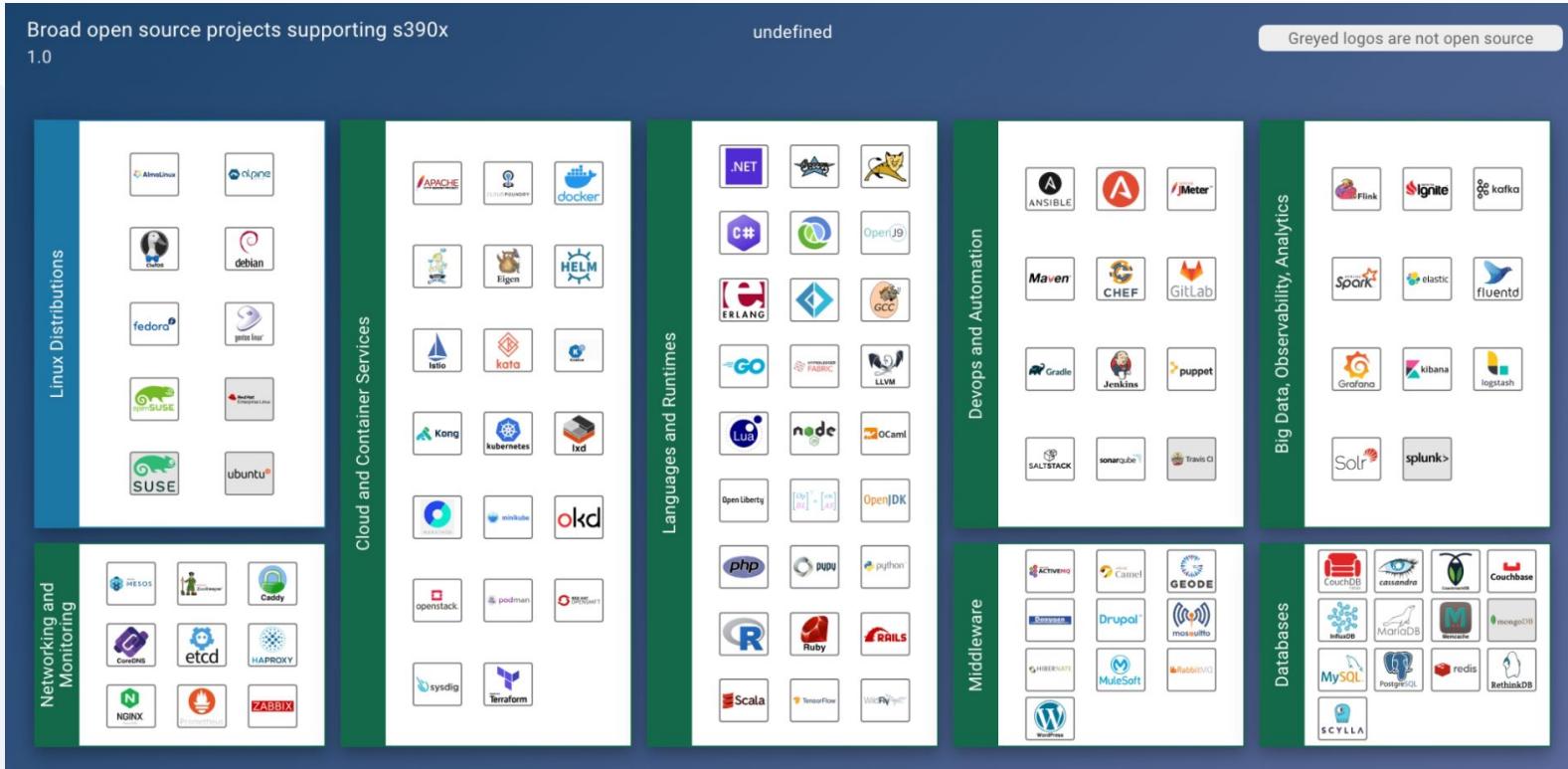
See the interactive landscape at [l.openmainframeproject.org](https://landscape.openmainframeproject.org)

Greyed logos are not open source



Source: <https://landscape.openmainframeproject.org/fullscreen>

Broad Open Source Supported on Mainframe



Source: <https://landscape.openmainframeproject.org/fullscreen/open-source>

Open Mainframe Project Enables Innovation



Enabling Innovation by Connecting z/OS to Enterprise Devops



Major Problem

Modernize integration with z/OS based applications and services
Bridge the talent gap by enabling modern development stacks on z/OS
Lack of cross-enterprise testing tools that properly supported z/OS.
Open source support for z/OS was vendor-centric and development efforts disconnected.

How We Innovated

2018 Open Mainframe Project added Zowe from contributions from Broadcom, IBM, Rocket Software
2019 Zowe reached 1.0, launched Zowe Conformant to enable downstream ecosystem; investments in collaboration, ecosystem development, and infrastructure
2020 Ambitus joins the Open Mainframe Project
2022 Zowe 2.0 release
2023 Galasa joins the Open Mainframe Project
2024 z/OS Open Tools joins the Open Mainframe Project as zopen community

Results

60,000+ Commits, 1000+ contributors all time
85% of mainframe customers using Zowe in or planning to use Zowe by end of 2024 (source Arcati Mainframe Yearbook 2024)
50+ Zowe Conformant offerings, 3 Zowe Conformant Support Providers, 7000+ completed Zowe training offered by Interskill
New project contributions from BMC, Phoenix Software, Vicom Infinity, and multiple customers, has grown codebases of these projects.

Enabling Innovation by Modernizing COBOL



Major Problem

COBOL talent is critical to our society, and the need has amplified in the COVID-19 pandemic.

Enabling the next generation to have COBOL skills done in isolation, causing repeated efforts and lower uptick.

COBOL lacking tools that align with modern development

How We Innovated

Launched [COBOL Programming Course](#) as an open source project in April 2020, teaching COBOL development using VS Code and Zowe.

Created [collaboration forums](#) and ways that COBOL talent can advertise their availability

Launched [COBOL Working Group](#) to bring together leaders in thinking about the future of COBOL

[COBOL Check](#) project launched, bringing TDD practices to COBOL

[Zorse](#) launched to provide a high-quality, openly licensed dataset of COBOL code to train LLMs

Results

“[Calling all COBOL Programmers](#)” forum has had over 1.9k individuals make themselves available since April 2020

[COBOL Programming Course GitHub repo](#) has 2.5k stars and 500+ forks, along with 22 contributors from several organizations, continuing to evolve with deeper level COBOL training content

COBOL Working Group getting broad feedback on the future direction of COBOL

COBOL Check a step forward in modern dev practices and being integrated into VS Code and COBOL Programming Course curriculum.

Enabling Innovation by Creating a Hub for Linux on Z and z/VM Community



Major Problem

Users want to manage their mainframes with the same modern cloud technologies used across the enterprise.

z/VM integration with technologies such as OpenStack have long been a challenge.

Contribution base was IBM only, making it challenging to get wider adoption

z/VM lacked a sustainable hub for community tools and utilities

Linux distributions supporting s390x mainframe

How We Innovated

2019 Open Mainframe Project added Feilong

2020 Software Discovery Tool and Tessia added as a projects

2021 z/VM Community Tools forms as a Sandbox project, Linux Distributions Working Group formed

Results

Central repository for open source on mainframe developed, tracking across all major distributions (
<http://sdt.openmainframeproject.org>)

Sustainable and coordinated maintainership for s390x Linux distributions, including Alma Linux, Debian, Fedora, and openSUSE amongst others.

Central hub being developed for z/VM tools and utilities for easier discoverability.

Enabling Innovation with the Next Generation



Major Problem

Aging tenured mainframe talent, with a growing mainframe talent gap and skills decline in next generation talent.

Needing to help connect students with opportunities in mainframe, aligning the interests in open source.

Isolated efforts in education created duplicated efforts in education.

How We Innovated

Launched first mentorship program in 2016 with 7 mentees.

Connected within the mainframe and broad open source community to ensure mentorship work has upstream project value.

Enabled universities to also leverage the program within class work; successful with VCU and Western University (Ontario)

Mainframe Open Education project launched in 2021 to create standard hub of educational materials for mainframe.

Results

70+ mentees completed the program, with broader classwork focus reaching 100s more.

Upstream work has included ports of Alpine Linux, contributions to HyperLedger, OpenStack, CloudFoundry, Kubernetes, and more.

Several mentees are now employed in mainframe roles with IBM, SUSE, ADP, and more.

Collaborations between Broadcom, IBM, Kyndryl, and more have built a base of common mainframe educational materials, free to use and openly licensed.

Sustainable home for critical mainframe open source efforts.



CBT Tape

Major Problem

CBT Tape, a staple of mainframe programmers and operators for over 50 years, lacked a sustainable home and infrastructure to support it.

GenevaERS development was stalling internally at IBM, and needed a home to bring together more constituents and build a community around.

“Mainframe Modernization” loosely defined, causing marketing confusion.



How We Innovated

CBT Tape and GenevaERS join the Open Mainframe Project in 2020.

Modernization WG launched in 2022

Results

Strong contributor base to both projects.

CBT Tape gained mainframe infrastructure for development and testing, which has gained more contributors since joining.

Modernization WG defining modernization patterns for consistent, vendor-neutral education.

Enabling Innovation for End-users



bankdata

RUNE CHRISTENSEN

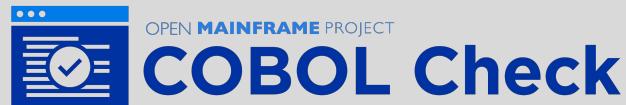
Bankdata Relies On Open Mainframe Technologies To Serve Banks In Denmark

Bankdata Open Mainframe Stack

Developer Enablement



Agile / Test Driven Development



Systems Integration/Deployment



Read the Bankdata story at <https://www.openmainframeproject.org/blog/2022/12/16/open-mainframe-use-case-bankdata>



Innovation Enablement is More than Code



Enabling Innovation Through Diversity and Inclusion

A REAL CONVERSATION TO ACCELERATE OUR WAY FORWARD

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE

Webinar: How Personal Experiences Shape Corporate Inclusion

April 28th 2021 | 11:00 CST / 12:00 EST

Moderator: Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Ashley Peterson
Product Marketing Manager, IBM Z and LinuxONE
IBM

Jeff Henry
VP Strategy, Product Mgmt & Design Mainframe Software Division
Broadcom

Sharra Owens-Schwartz
Inclusion, Diversity and Equity Senior Director
Rocket Software

Jerry Chauyapradit
Manager, IBM Z Interstage Networking Solutions
IBM

A REAL CONVERSATION TO ACCELERATE OUR WAY FORWARD

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE

Webinar: Unmasking Our 'Whole Self' - Can We Create Inclusive Psychologically Safe Spaces in the Workplace?

July 28th 2021 | 9:00 PDT / 12:00 EDT

Moderator: Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Allyson Cook
Program Lead, Employee Program
Broadcom

Tina Tarquinio
Product Management Director for Z
IBM

Kevin Norlin
Chief Revenue Officer
Rocket Software

Earl Dixon Jr.
Project Client Strategic, Vitality Inclusion Team Lead
Broadcom

A REAL CONVERSATION TO ACCELERATE OUR WAY FORWARD

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE

From Educators to End Users: Leveraging Holistic Approaches and the Importance of Belonging Across the Tech Ecosystem

February 23rd 2022 | 9:00 PDT / 12:00 EDT

Moderator: Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Dr. Gloria Chance
President & CEO, The Model Group
Peak Performer, Psychological Innovation & Creativity Expert
Former COO

Chinedu Ibeh
Corporate Vice President, Enterprise Services
New York Life

Byron Smith
Sr. Mainframe Security Engineer, Enterprise Technology Banking Office
M&T Bank

Gina Bullock, PhD
Assistant Professor, North Carolina A&T State University

Nicole Ikwakor
Specialist, Systems Engineer Infrastructure and Cloud (IAC)
Charles Schwab

Watch the “Making our Strong Community Stronger” series on [Open Mainframe Project’s Youtube Channel](#)



[Blog](#) [DEI](#) [Diversity](#) [Diversity & Inclusion](#)

What inclusion means to me and how to get started

Written by Maemalynn Meanor, Senior Public Relations Manager at The Linux Foundation Diversity and inclusion...

maemalynn
April 23, 2021



[Blog](#) [DEI](#) [Diversity](#) [Diversity & Inclusion](#)

[Equity & Inclusion](#)

My favorite Mainframe and Six Women Building It

Written by Tina Tarquinio, Making Our Strong Community Stronger Panelist and Product Management Executive for...

Open Mainframe Project
November 12, 2021



[Blog](#) [DEI](#) [Diversity](#) [Diversity & Inclusion](#)

Women in Technology Continue to Grow in Numbers and Contribution

Written by Sagi Amirsoleymani, Vice President, WW Cross Brand, Rocket Software Rocket Software is a...

Open Mainframe Project
May 26, 2021

Read about diversity in mainframe on [Open Mainframe Project’s Blog](#)

Enabling Innovation through strong security and IP policies



Good open source projects follow key best practices...

- Multiple, unaffiliated contributors
- Code review policies
- Secure and validated release process
- Security minded development

Open Mainframe Project, as well as larger Linux Foundation projects are well tested, have continuous security analysis, and operate in the best practices of open source projects.

- OpenSSF Best Practices badges
- Routine license scans, including dependency and software supply chain analysis
- Security standards and tooling from OpenSSF leveraged



openssf
scorecard

Enabling Innovation by Telling the “Mainframer” Story



- Monthly interview series that highlights diversity in mainframe
- Showcases why people have mainframe in their careers and their views of the technology and career field
- Read and listen at openmainframeproject.org/podcast



Enabling Innovation by Providing an “Open” Mainframe

Hosted by Marist College, and through the donation of hardware by Broadcom Mainframe Software, the Open Mainframe Project has a mainframe resource available to **any** open source project looking to support Linux on s390x, z/OS, or z/VM.

Available in Summer 2024. Thanks to these vendors for donations and support.



MARIST



Enabling Community by Creating New Ecosystems

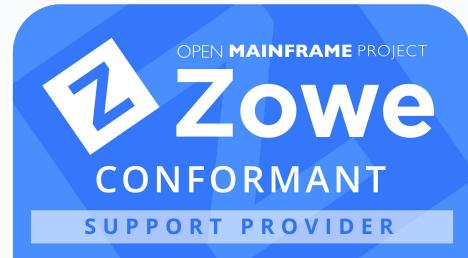


Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

Benefits

- Your offering and logo listed in the [Zowe Conformant offering directory](#) or [Zowe Conformant Support Provider directory](#) and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)
- PR announcement for new organizations providing offerings
- Post a guest blog post on your offering on the Open Mainframe Project and Zowe blog



Fees are waived for Open Mainframe Project members

More details at

<https://www.openmainframeproject.org/projects/zowe/conformance>

Getting Involved in Open Mainframe Project



Contribute to Our Projects - anyone can!



Contribute to an existing project:

- Submit a PR with a bugfix or new feature
- Pick existing GitHub issue as a sample project
- Integrate with a new app / contribute plugin
- Help improve project documentation
- Submit additional test cases
- Join the TSC discussion: dev mailing list, conf calls

Get involved with the TAC or Working Group:

- DevOps / CI expertise always useful
- Interest / expertise in security especially welcome
- Join the TAC discussions: mailing list, conf calls, working groups

More information at

tac.openmainframeproject.org/engagement



Getting Involved in Projects

All of the projects hosted at the Open Mainframe Project are open and transparent, and welcome participation from anyone interested in the technology areas. Each project publishes their governance processes within their project repo (typically in the README.md file or in a GOVERNANCE.md file within the primary project repo or TSC repo) on roles within the community and how decision making is made.

TAC Meetings

Learn more about joining the public meetings of the Technical Advisory Council (TAC) on the [Meetings page](#)

Mailing Lists and Slack channels for hosted projects

Each project hosted at the Open Mainframe Project collaborates on open channels that are welcome for anyone in the community to participate in. See the below list of channels for each project.

All Slack channels referenced below are part of the [Open Mainframe Project Slack organization](#)



Repo: <https://github.com/openmainframeproject/ade>
Website: <http://ade.openmainframeproject.org>
Slack: #ade
Leads: James Caffrey



Repo: <https://github.com/openmainframeproject/cobol-programming-course>
Website: <https://www.openmainframeproject.org/projects/cobolprogrammingcourse>
Mailing List: <https://lists.openmainframeproject.org/g/cobol-course-discussion>
Slack: #cobol-programming-course

Make Sure You are Following Us on Social!



The Open Mainframe Project
Information Technology & Services · 1,578 followers

The focal point for deployment and use of Linux and Open Source on the mainframe
WWW.OPENMAINFRAMEPROJECT.ORG

OpenMainframeProject
@OpenMFProject Follows you
A @LinuxFoundation Project for Open Source on the Mainframe as the standard for enterprise class systems and applications.
openmainframeproject.org Joined October 2015

Follow us on LinkedIn at
<https://www.linkedin.com/company/the-open-mainframe-project>

Follow us on Twitter at
<https://twitter.com/OpenMFProject>

And sign up for the [Open Mainframe Project newsletter](#) to keep up to date on project happenings



Member Organizations



Learn more about membership at openmainframeproject.org/join



Governing Board Representatives



Len Santalucia
Chair
CTO
Vicom Infinity, Inc.



Alan Clark
CTO Office
SUSE LLC



Cam Seay
Instructor
East Carolina
University



Martin Kennedy
MD
Citi



Meredith Stowell
VP, IBM Z
Ecosystem
International
Business
Machines
Corporation



Michael Daubman
Broadcom
Corporation



Phil Tully
LinuxONE
Engineering
Operations
Director
Citi

Technical Advisory Council (TAC) Representatives



Phil Tully
Chair
LinuxONE
Engineering
Operations
Director
Citi



Andrea Orth
Scrum Master
State Farm
Mutual
Automobile
Insurance
Company



Giancarlo Frix
Senior Software
Developer
Rocket Software



Gregory
MacKinnon
Distinguished
Engineer
Broadcom
Corporation



Joe Bostian
Open Source and
Analytics Architect
International
Business
Machines
Corporation



Lauren Valenti
Head of
Mainframe
Education and
Customer
Engagement
Broadcom
Corporation



Mike
Friesenegger
Solution Architect
SUSE Software
Solutions
Germany GmbH



Sean Grady
Senior Software
Architect
Rocket Software,
Inc.
International
Business
Machines
Corporation



Sudharsana
Srinivasan
IBM Z Influencer
Program Manager



Learn More About the Open Mainframe Project



- Discover and participate in any of our 17 hosted projects and working groups at <https://openmainframeproject.org/our-projects/>
- See the breadth of open source on the mainframe at l.openmainframeproject.org
- Take part in our upcoming events and webinars at openmainframeproject.org/events
- See the latest blog posts and news at openmainframeproject.org/news



Why Become a Member?

Becoming an Open Mainframe Project member means your organization is...



- a leader in the open source on mainframe community
- wants to drive the technical vision of open source on mainframe
- a thought leader or aims to be a thought leader in open source on mainframe
- bringing solutions to market based on projects hosted at the Open Mainframe Project, and wanting to show your stewardship towards those communities

Leverage Our Industry Presence to Advance Your Thought Leadership.

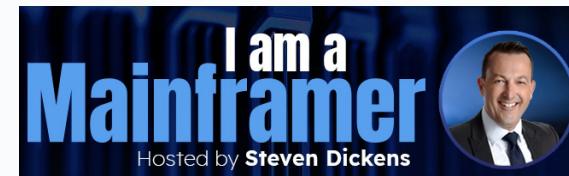
Through our large audience, extensive media outreach, and with key partnership with publications such as [Linux.com](#), [TFiR](#), [TechChannel](#), and [MediaOps](#), you will be positioned to be a thought leader in open source. Specific benefits include...

- Announcement of your membership via press release and social.
- Your company logo on both the [Open Mainframe Project website](#) and [Linux Foundation website](#).
- Guest blog post(s) on the [Open Mainframe Project blog](#) on a thought-leadership topics of our choice.
- Provide a guest for the "[I Am A Mainframer](#)" podcast, hosted by Steven Dickens and Open Mainframe Project
- Post one technical article about an open source project you care about to [Linux.com](#), which has over 1 million unique visitors per month.
- Support of your announcements with social outreach and quotes from Linux Foundation and/or Open Mainframe Project leadership as appropriate.
- Access to opportunities for contributed articles, videos, podcasts, and events



TechChannel

TFiR



9000+
followers



4500+
followers



1400+ global
media articles
in 2023



Additional Event Participation Opportunities

- One invite to our member-exclusive [Linux Foundation Member Summit](#), which fosters collaboration, innovation, and partnerships among the leading projects and organizations working to drive digital transformation with open source technologies.
- Employees at your organization receive a 20% registration discount to eligible [Linux Foundation events](#), such as our Open Source Summit events in North America, Europe, and Japan.
 - Open Mainframe Project hosts mini-events for members and the community at these events.
- A 5% Discount on [Linux Foundation Event Sponsorship](#), including [Open Mainframe Summit](#) (7% discount on multi-event Sponsorships). Sponsorships offer a valuable way to reach the community of Open Source Developers, Engineers, C-level Executives, and more.



THE LINUX FOUNDATION





Join the Zowe Conformance Program

Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

Benefits

- Your offering and logo listed in the [Zowe Conformant offering directory](#) or [Zowe Conformant Support Provider directory](#) and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)
- PR announcement for new organizations providing offerings
- Post a guest blog post on your offering on the Open Mainframe Project and Zowe blog



Fees are waived for Open Mainframe Project members

More details at <https://www.openmainframeproject.org/projects/zowe/conformance>

Showcase Your Career Opportunities in Mainframe



- Showcase of Open Mainframe Project members who are hiring for mainframe positions
- Not a job board - links to each member's job listings



Are you looking to see where mainframe and open source skills can take you? Check out the many open opportunities from Open Mainframe Project members below for the next step in your career.

BROADCOM

[LEARN MORE](#)

IBM

[LEARN MORE](#)

Rocket software

[LEARN MORE](#)

SUSE

[LEARN MORE](#)

<https://www.openmainframeproject.org/resources/careers>

Host a Mentorship



Open Mainframe Project funds mentorships for students to bring new talent into mainframe through contributions to open source. These mentees have made huge impacts on hosted projects such as Zowe, Feilong, COBOL Programming Course, and more, as well as broad open source projects such as Alpine Linux, CloudFoundry, Kubernetes, and more. More than 1600+ students globally applied for a mentorship in 2024.

Members can provide a mentorship and be a mentor, which is funded by the Open Mainframe Project. This provides a unique opportunity to find new talent.

Contact mentorship@openmainframeproject.org if you are interested.



LFX is a toolkit built to add value to every aspect of open source development. LFX directly supports projects and empowers open source developers to write better, more secure code and grow sustainable ecosystems.



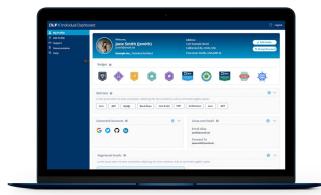
LFX Insights

You can't improve what you don't measure



LFX Security

Open source security is a shared responsibility



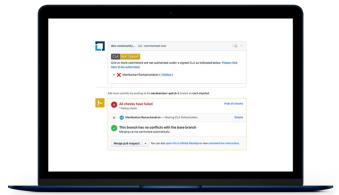
LFX Individual Dashboard

Measure your impact across the entire open source ecosystem



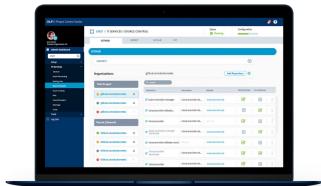
LFX Mentorship

Train future open source leaders



LFX EasyCLA

Don't let contribution policy disrupt development velocity



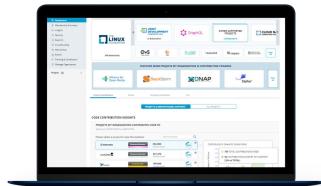
LFX Crowdfunding

Support the projects you depend on



LFX Organization Dashboard

The limited access beta will be launching mid 2021 for LFX Organization Dashboard.



LFX Project Control Center

The limited access beta will be launching mid 2021 for LFX Project Control Center.

Additional tools include...

- LFX Member Enrollment
- LFX Landscape
- LFX Community Events
- LFX Training Portal

Learn more at lfx.dev

Maximize Your Open Source Investment with Training



THE
LINUX
FOUNDATION

Training &
Certification

The Linux Foundation offers training and certification direct from the source, those contributing to the world's most important open source projects.

As an Open Mainframe Project Silver or Platinum member, you are entitled to 10 vouchers for 100% any...

- **LF eLearning Class**
- **Certification Exam**
- **eLearning+Certification Exam “Bundle.”**

The value is \$299+ per course.

Improve Your Open Source Compliance and Practices



As a Linux Foundation member, your in-house counsel has access to the leading vendor-neutral resources in open source compliance, best practices, and training, along with peer collaboration. Specific benefits include...

- Your legal counsel's ability to participate in bi-monthly legal calls.
- One invite for your in-house counsel to [LF Legal Summit](#), which helps connect your counsel to their peers at other member companies and advance your organization's open source licensing, litigation, compliance, and best practices.
- Access to a complimentary membership to the [TODO Group](#), which is a forum for discussing best practices and approaches for establishing and managing open source program offices in organizations.
- Support from the vast expertise in the Linux Foundation in engaging with open source, and even starting your own open source project(s).

THE LINUX FOUNDATION

Welcome to The Linux Foundation!

The Linux Foundation works with companies and communities to support the development of critical, sustainable open source projects. Companies and organizations join the LF in order to enable better collaboration among businesses and technical leaders in the open source community.

The LF also serves a key role as a neutral, collaborative forum for in-house counsel to come together and discuss legal matters relating to their development and use of open source. This welcome packet is intended to introduce your legal teams to some of the LF groups and resources that are available to them.

LF Member Counsel

The Linux Foundation hosts recurring events for the in-house legal teams from LF members, including:

- bimonthly [member counsel calls](#), where the LF legal team discusses current topics facing our members and projects in their interactions with open source projects and communities;
- our annual [Legal Summit](#), where our members' legal teams gather for deep dives, presentations and workshops, and honest and frank debates on critical open source legal matters.

One point of clarification is that these events are for lawyers. It is acceptable to include someone else from your organization, but you must have a lawyer present as it will make other lawyers uncomfortable to participate with unrepresented individuals from other companies.

LF Member Counsel events are open to all of our members' legal teams, and are coordinated via mailing list. Please contact us at legal@linuxfoundation.org to be added to the list.

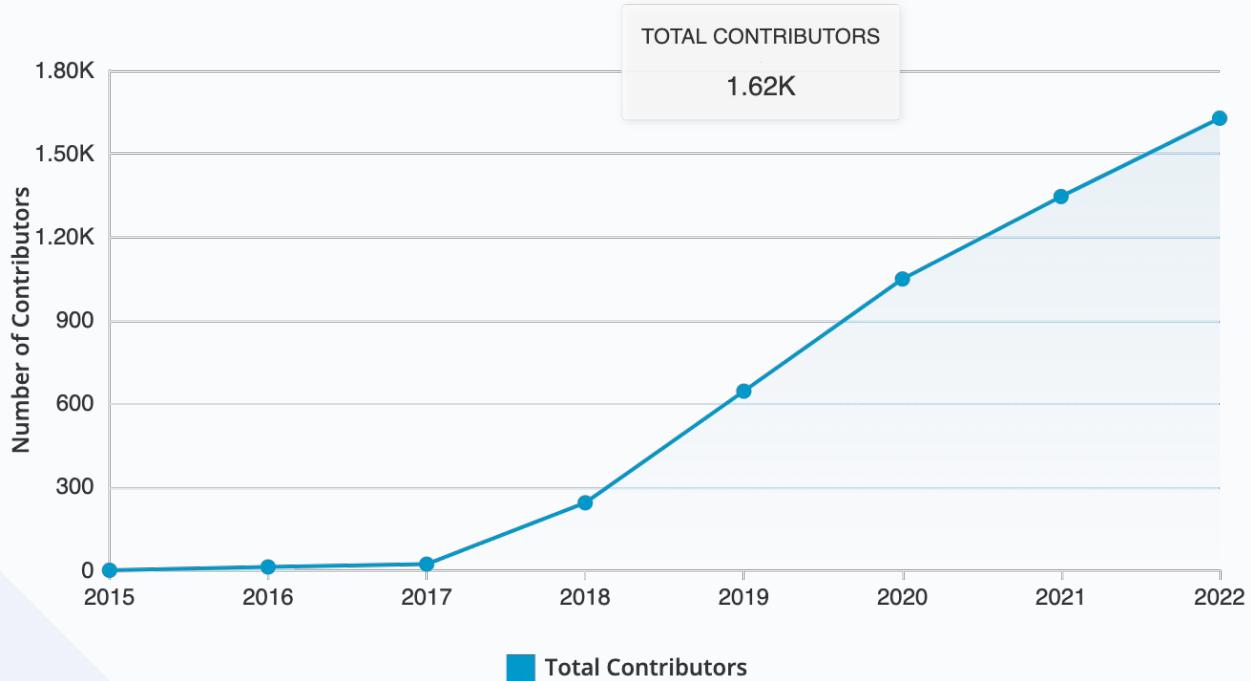
Projects: Compliance, Licensing and Best Practices

ACT	https://automatecompliance.org/ Automating Compliance Tooling) seeks to improve software tooling for detecting and complying with open source licenses. Its goal is to improve the efficiency of open source compliance tools to enable compliance workflows that can be optimized for each company's unique build and release process.
OPENCHAIN	https://www.openchainproject.org/ OpenChain defines the key requirements for an organization's open source compliance program. It establishes a conformance program where companies can self-certify to these requirements, with the goal of improving transparency and communication of compliance information across supply chains.
SPDX	https://spdx.dev/ SPDX (Software Package Data Exchange) is a specification for communicating Software Package Metadata in a standardized, human- and machine-readable format. It enables better communication of information, including license and copyright details, between organizations and interoperability between compliance tools.
TODO	https://todogroup.org/ The TODO Group (Talk, Openly, Develop, Openly) is a forum where participants discuss best practices and approaches for open source strategy in their businesses. Participants include members of open source program offices and related teams, collaboratively addressing various strategic considerations interacting with open source communities.
COMMUNITY DATA LICENSE AGREEMENT	https://cdla.io/ CDLA (Community Data License Agreement) is a pair of licenses that were jointly drafted by members of the LF Member Counsel Community. They define reusable license terms intended to better address unique issues that arise in open data collaboration.

But Most Importantly, You Support Innovation



Our collaborative projects and working groups are successful because of the investment of members funding these initiatives.



Data through 12/31/2022. Source:

[https://insights-v2.lfx.linuxfoundation.org/open-mainframe-project/trends?selectedDateFilterType=CUSTOMDATES&startDate=Thu%20Jan%2001%202015%2000:00:00%20GMT-0500%20\(Eastern%20Standard%20Time\)&endDate=Sat%20Dec%2031%202022%2023:59:59%20GMT-0500%20\(Eastern%20Standard%20Time\)](https://insights-v2.lfx.linuxfoundation.org/open-mainframe-project/trends?selectedDateFilterType=CUSTOMDATES&startDate=Thu%20Jan%2001%202015%2000:00:00%20GMT-0500%20(Eastern%20Standard%20Time)&endDate=Sat%20Dec%2031%202022%2023:59:59%20GMT-0500%20(Eastern%20Standard%20Time))

Drive the Direction of the Foundation Through Platinum Membership



Platinum members are the key stewards of the Open Mainframe Project, and as such hold key leadership positions in the various governance structures. Their investment is key to the sustainability of open source in mainframe.

Specific Benefits include:

- Voting seat on the Governing Board, TAC, and Marketing Committee, enabling the member to direct the strategic direction, budget, and priorities of the Open Mainframe Project.
- Host an Open Mainframe Project webinar and have a guest on the “I Am A Mainframer” podcast annually, if desired.
- Regular meetings to brief on project activities, and an annual membership check-in to review engagement opportunities and provide feedback to project leadership.
- First opportunity to participate and drive event and outreach opportunities, and the project will ensure partnership with Platinum Members in relevant events.
- Open Mainframe Project leadership will support Platinum Member events, internal open source program efforts, and be available for customer and prospect engagement.
- Additional training benefits through [LF Training](#).



Corporate, Academic, Associate Membership Levels



Level	Annual Fee Includes LF Silver Membership	Board Seat	TAC Seat	Marketing Committee	Notes
Platinum	\$120,000	Yes	Voting	Yes	Initial 2-year participant commitment
Platinum End-User	\$30,000	Yes	Voting	Yes	Initial 2-year participant commitment
Silver	5,000 employees or more = \$50,000 2,000 < 5,000 employees = \$35,000 1,000 < 2,000 employees = \$30,000 500 < 1000 employees = \$25,000 100 < 500 employees = \$15,000 < 100 employees = \$10,000	1 per 10	Non Voting	Yes	
Academic	Free	1 per 10	Non Voting	Yes	Restricted to academic institutions
Associate	Free	No	Non Voting	Yes	Non-profits, open source projects

To join Open Mainframe Project, go to <https://www.openmainframeproject.org/about/join> or email at membership@openmainframeproject.com

Listed fees include Linux Foundation Silver membership. If you are already a Linux Foundation Member, reduced pricing is available.



Thank You!

