Prime Guide to LF Edge For Current and New Members

Getting Started Guide
We are creating a common framework for hardware and software standards and best practices critical to sustaining current and future generations of IoT and edge devices.
LF Edge References

Key Contacts
Arpit Joshipura, Executive Sponsor
ajoyj@linuxfoundation.org
Mike Woster, Membership
mwoster@linuxfoundation.org
Aaron Williams, Developer Advocate
aaron@lfedge.org
Brett Preston, Sr. Program Manager
bpreston@linuxfoundation.org
Jill Lovato / Maemalynn Meanor, PR and Marketing
pr@lfedge.org
Eric Ball, IT Operations
support.linuxfoundation.org

Key Resources
Web Site  https://www.lfedge.org/
Wiki  https://wiki.lfedge.org/
Mail Lists  https://lists.lfedge.org/
Slack  https://slack.lfedge.org/
Technical Advisory Council (TAC):
https://wiki.lfedge.org/pages/viewpage.action?pageId=1671298
Outreach Committee/Marketing:
https://lists.lfedge.org/g/outreach-committee
LF Edge Elected Leadership

**Governing Board**
- Chair: Melissa Evers-Hood, Intel
- Treasurer: Tom Nadeau, Red Hat
- General Member Representatives:
  - Cole Crawford, Vapor IO
  - Jim Xu, Zenlayer
  - Rob Hirschfeld, RackN

**Technical Advisory Council (TAC)**
- Chair: Jim St. Leger, Intel

**Outreach / Marketing Committee**
- Chair: Balaji Ethirajulu, Ericsson
LF Edge Project Leadership

Akaino
› TSC Chair / TSC Voting Member: Tina Tsou, Arm
› TSC Vice-Chair: Oleg Berzin, Equinix

Baetyl
› TSC Chair: Leding Li, Baidu

EdgeX Foundry
› TSC Chair: Jim White, IOTech
› TSC Voting Member: Henry Lau, HP Inc.

EVE
› TSC Chair: Erik Nordmark, ZEDEDA

Fledge
› TSC Chair: Mark Riddoch, Dianomic

Home Edge
› TSC Chair: Myeonggi Jeong (Mj), Samsung

Open Horizon
› TSC Chair: Joe Pearson, IBM

Secure Device Onboard
› TAC Representative: Rich Rodgers, Intel

State of the Edge
› TSC Chair: Matthew Trifiro, Vapor IO
› TSC Co-Chair: Jacob Smith, Equinix Metal
Introducing LF Edge
LF Edge – umbrella for Edge Projects

STAGE 3: IMPACT PROJECTS

- **AKRAINO**
  Aims to create an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications.

- **EDGEX FOUNDARY**
  Highly flexible open source software framework that facilitates interoperability between heterogeneous devices and applications at the IoT Edge, along with a consistent foundation for security and manageability regardless of use case.
LF Edge – New umbrella for Edge Projects

STAGE 2: GROWTH PROJECTS

An open abstraction engine that simplifies the development, orchestration and security of cloud-native applications on distributed edge hardware. Supporting containers, VMs and unikernels, EVE provides a flexible foundation for Industrial and Enterprise IoT edge deployments with choice of hardware, applications and clouds.

Fledge is an open source framework and community for the Industrial Edge. Architected for rapid integration of any IIoT device, sensor or machine all using a common set of application, management and security REST APIs with existing industrial "brown field" systems and clouds.

Interoperable, flexible, and scalable edge computing services platform with a set of APIs that can also run with libraries and runtimes.

State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all.
BAETYL

Baetyl offers a general-purpose platform for edge computing that manipulates different types of hardware facilities and device capabilities into a standardized container runtime environment and API, enabling efficient management of application, service, and data flow through a remote console both on cloud and on prem.

OPEN Horizon

Open Horizon is a platform for managing the service software lifecycle of containerized workloads and related machine learning assets. It enables management of applications deployed to distributed webscale fleets of edge computing nodes and devices without requiring on-premise administrators.

SECURE DEVICE ONBOARD

Secure Device Onboard (SDO) is an automated “Zero-Touch” onboarding service.
Premier Members

altran
arm
AT&T
Baidu 百度
Charter Communications
DELL Technologies
Dianomic
Equinix
Ericsson
Fujitsu
Futurewei Technologies
HP
Huawei
IBM
Intel
Nokia
NTT
OSIsoft
Radisys
redhat
Samsung
Tencent 腾讯
WD Western Digital
Wipro
Zededa

THE LINUX FOUNDATION

LF EDGE
LF Edge: Key Takeaways

1. Harmonizing Open Source Edge Communities across IOT, Enterprise, Cloud & Telecom

2. Keeping LF Edge Open & Interoperable with
   - Hardware, Silicon, Cloud, OS, Protocol independence
   - Bringing the best of telecom, cloud and enterprise – location, latency & mobility
   - In collaboration with Consortiums/SDO (IIC, AECC, OEC, ETSI)

3. Hosted by the Linux Foundation similar to other Open Source Communities like CNCF (Kubernetes), LF Networking (ONAP) and many more.
LF Edge Governance

Board Committees (As Needed)
- Audit & Finance
- End User Advisory Group
- Compliance & Verification

Technical Advisory Council (TAC)
- Akraino TSC
- EdgeX TSC
- Home Edge TSC
- Project EVE TSC
- Fledge TSC

Developer Communities

LF Edge Governing Board
- Strategy & Priorities
- Budget
- Marketing Strategy & Events
- Legal & overall governance

Outreach Committee
- WG project x
- WG project y

External Focus (SDO/OSS)
- Vertical Solutions focus (e.g., O&G, Retail, Industrial/Manuf, Home, Telecom, etc)
- Cross-project collaboration
- New Project Induction
- Developer Voice to GB

Annual Marketing Plan
- PR
- Events
- Content/Web
- Branding
- Market Development
**LF Edge Membership Structure, broad base – lower dues**

**Summary**
1. Premier Member, Annual cost for LF Edge $50,000 (similar to Akraino)
2. Simplified EdgeX general category to match LF levels
3. Dues for existing projects will be credited towards LF Edge or any LF projects.

<table>
<thead>
<tr>
<th>Level</th>
<th>Not Yet LF Member</th>
<th>Already LF Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier</td>
<td>$70,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>General</td>
<td>$45,000 (USD) 5,000 and above</td>
<td>$25,000 (USD) 5,000 and above</td>
</tr>
<tr>
<td></td>
<td>$30,000 (USD) From 500 to 4,999</td>
<td>$15,000 (USD) From 500 to 4,999</td>
</tr>
<tr>
<td></td>
<td>$20,000 (USD) From 100 to 499</td>
<td>$10,000 (USD) From 100 to 499</td>
</tr>
<tr>
<td></td>
<td>$7,500 (USD) Up to 99</td>
<td>$2,500 (USD) Up to 99</td>
</tr>
</tbody>
</table>

*LF Edge membership also requires companies to corporate members of The Linux Foundation (similar to Akraino and EdgeX Foundry). A discount of $5,000 to $20,000 is available for existing Linux Foundation members who join LF Edge.*
LF Edge Membership – the benefits

Premier

Influence Strategic Direction of LF Edge & its projects (as a Voting GB member)
- Budget Influence/approval, how and where the project spends money.
- Direct Influence on messaging, developer events, training
- Influence the marketing, messaging, and positioning to best represent the project for your uses
- Marketing Committee Voting Seat

Direct Interaction with Leadership – within LF and across peers
- Premium access to the project ED/VP to understand business goals
- Premium access to the Operations staff, IT, Marketing, Operations, Leadership
- Participate in any Cross project strategy discussions on harmonization and future direction of Edge
- LF Leadership support to Keynote member events, participate in outreach (eg roadshows, events, conference meet ups etc.)

Technical and Roadmap Direction Influence (through the technical community)
- TAC (Technical Advisory Council) voting seat
- Find like-minded companies/developers to build a coalition to get an idea accepted and prioritized by the community
- Aid the developers in actions they can take to improve their standing, position, and influence in the community, etc.

Brand Momentum – ability to show Leadership in Open Source which drives end user adoption and talent.
- Open Source Brand Affinity, prove to your customers that you are a leader in the project, hire talented software engineers

General

Learning and Engaging to create the largest Open Source Edge shared technology roadmap
- Work together across company lines and industries
- Participate in elected board seat process

Marketing & Thought Leadership
- Logo on the website once your membership has been announced. LF will support with quotes on Press releases related to the project
- Marketing Committee comprised of a representative from each Member company. General Members may appoint a representative as an observer of the Marketing Committee meetings on a non-voting basis. The objective of this Committee is shaping the marketing direction for edge. The Linux Foundation will do the heavy lifting, so this is more to oversee and shape the discussion/direction with the other Members for the Marketing efforts. This person can also funnel all Marketing information back to your organization so that the key stakeholders are in the loop.
- Participate in our hosted projects and attend our events, meetups, and roadshows

Technical Steering Committee & Technical Community
- TSC meetings are open to the public and we encourage all members of the technical community to participate in the discussion moving forward.
Get Involved in the LF Edge Technical Communities

› Participation in LF Edge Projects is open to all

› Getting involved in the technical communities is the best way to learn about the projects

› **Step 1:** Get a Linux Foundation ID Here: [https://identity.linuxfoundation.org/](https://identity.linuxfoundation.org/)

› **Step 2:** Visit LF Edge Wiki ([https://wiki.lfedge.org/](https://wiki.lfedge.org/))

› **Step 3:** Join workflows for the projects and working groups, subscribe to mailing lists, ask questions, contribute!

Way to participate:

› Attend project meetings
› Attend developer events
› Join approved projects
› Propose a project
› Write documentation
› Contribute use cases
› Analyze requirements
› Define tests / processes
› Review and submit code patches
› Build upstream relationships
› Contribute upstream code
› Provide feedback through VSFG
› Host and staff a community lab
› Answer questions
› Give a talk / training
› Create a demo
› Evangelize LFE and its projects
Join Us!

Contact Mike Woster, mwoster@linuxfoundation.org

LF Edge, bringing Edge initiatives together

IOT+Telecom+Cloud+Enterprise
LF Edge Projects
Akaino

Brief Description
Akaino aims to create an open source software stack that supports high-availability cloud services optimized for edge computing systems and applications.

Contributed by
AT&T in February 2018

Key Contacts
Kandan Kathirvel, AT&T, TSC Chair, TAC Voting Member
Tina Tsou, Arm, TSC Vice-Chair

Key Links
Website https://www.lfedge.org/projects/akaino
Wiki https://wiki.akaino.org/
Gerrit https://gerrit.akaino.org/r/?/q/status:open
Documentation https://wiki.akaino.org/display/AK/Documentation
Mail Lists https://lists.akaino.org/p/main
Slack https://slack.lfedge.org/
(#akaino / #akaino-blueprints / #akaino-devprojects / #akaino-help / #akaino-tsc)

Technical Steering Committee (TSC)
https://wiki.akaino.org/pages/viewpage.action?pageId=4456453

Blueprints
https://wiki.akaino.org/pages/viewpage.action?pageId=1147243
Baetyl

**Brief Description**

Baetyl (pronounced “Beetle”) offers a general-purpose platform for edge computing that manipulates different types of hardware facilities and device capabilities into a standardized container runtime environment and API, enabling efficient management of application, service, and data flow through a remote console both on cloud and on prem. Baetyl also equips the edge operating system with the appropriate toolchain support, reduces the difficulty of developing edge calculations with a set of built-in services and APIs, and provides a graphical IDE in the future.

**Contributed by**

Baidu in August 2019

**Key Contacts**

Leding Li, Baidu, TSC Chair

**Key Links**

- Website: [https://baetyl.io/](https://baetyl.io/)
- Wiki: [https://github.com/baetyl/baetyl/wiki](https://github.com/baetyl/baetyl/wiki)
- GitHub: [https://github.com/baetyl/baetyl](https://github.com/baetyl/baetyl)
- Documentation: [https://baetyl.io/en/docs/overview/What-is-Baetyl](https://baetyl.io/en/docs/overview/What-is-Baetyl)
- Mail Lists: [https://lists.lfedge.org/g/main/subgroups](https://lists.lfedge.org/g/main/subgroups)
- Slack: [https://slack.lfedge.org/](https://slack.lfedge.org/) (#baetyl / #baetyl-tsc)
- WeChat: [https://baetyl.cdn.bcebos.com/Wechat/Wechat-Baetyl.png](https://baetyl.cdn.bcebos.com/Wechat/Wechat-Baetyl.png)
EdgeX Foundry

Brief Description

EdgeX, your data liberated! Highly flexible open source software framework that facilitates interoperability between heterogeneous devices and applications at the IoT Edge, along with a consistent foundation for security and manageability regardless of use case.

Contributed by

Dell in April 2017

Key Contacts

Jim White, IOTech, TSC Chair
Henry Lau, HP Inc., TAC Voting Member

Key Links

Website  https://www.lfedge.org/projects/edgexfoundry/
Wiki  https://wiki.edgexfoundry.org/
GitHub  https://github.com/edgexfoundry
Documentation  https://docs.edgexfoundry.org/
Mail Lists  https://lists.edgexfoundry.org/p/main/subgroups
Slack  https://slack.edgexfoundry.org/
Getting Started Guide  https://docs.edgexfoundry.org/1.2/getting-started/
Project EVE

Brief Description
An open abstraction engine that simplifies the development, orchestration and security of cloud-native applications on distributed edge hardware. Supporting containers, VMs and unikernels, EVE provides a flexible foundation for Industrial and Enterprise IoT edge deployments with choice of hardware, applications and clouds.

Contributed by
ZEDEDA in January 2019

Key Contacts
Erik Nordmark, ZEDEDA, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/eve/
Wiki  https://wiki.lfedge.org/display/EVE/Project+EVE
GitHub  https://github.com/lf-edge/eve
Documentation  https://github.com/lf-edge/eve/tree/master/docs
Mail Lists  https://lists.lfedge.org/g/eve-tsc
https://lists.lfedge.org/g/eve
Slack  https://slack.lfedge.org/ (#eve / #eve-help)

Technical Steering Committee (TSC)
https://wiki.lfedge.org/display/EVE/TSC-Project+EVE+Technical+Steering+Committee
Fledge

Brief Description
Fledge is an open source framework and community for the Industrial Edge. Architected for rapid integration of any IIoT device, sensor or machine all using a common set of application, management and security REST APIs with existing industrial "brown field" systems and clouds.

Contributed by
Dianomic and OSIsoft in September 2019

Key Contacts
Mark Riddoch, Dianomic, TSC Chair

Key Links
Website  https://www.lfedge.org/projects/fledge/
Wiki  https://wiki.lfedge.org/display/FLEDGE/Fledge+Home
GitHub  https://github.com/fledge-iot
Documentation  https://fledge-iot.readthedocs.io/
Mail Lists  https://lists.lfedge.org/g/fledge
  https://lists.lfedge.org/g/fledge-tsc
Slack  https://slack.lfedge.org/
  (#fledge / #fledge-help / #fledge-tsc)
Technical Steering Committee (TSC)  https://wiki.lfedge.org/pages/viewpage.action?pageId=10389276
Home Edge

Brief Description
Interoperable, flexible, and scalable edge computing services platform with a set of APIs that can also run with libraries and runtimes.

Contributed by
Samsung Electronics in June 2019

Key Contacts
Myeonggi Jeong (Mj), Samsung, TSC Chair

Key Links
Website https://www.lfedge.org/projects/homeedge/
Wiki https://wiki.lfedge.org/display/HOME/Home+Edge+Project
GitHub https://github.com/lf-edge/edge-home-orchestration-go
Mail Lists https://lists.lfedge.org/g/homeedge-tsc
Slack https://slack.lfedge.org/ (#homeedge / #homeedge-tsc)
Technical Steering Committee (TSC)
https://wiki.lfedge.org/pages/viewpage.action?pageId=1671336
Open Horizon

Brief Description
Open Horizon is a platform for managing the service software lifecycle of containerized workloads and related machine learning assets. It enables management of applications deployed to distributed webscale fleets of edge computing nodes and devices without requiring on-premise administrators.

Contributed by
IBM in April 2020

Key Contacts
Joe Pearson, IBM, TSC Chair

Key Links
Website: https://www.lfedge.org/projects/openhorizon/
Wiki: https://wiki.lfedge.org/display/OH/Open+Horizon
GitHub: https://github.com/open-horizon
Mail Lists: https://lists.lfedge.org/g/open-horizon
https://lists.lfedge.org/g/open-horizon-tsc
Slack: https://slack.lfedge.org/ (#open-horizon /
#open-horizon-help / #open-horizon-tsc)

Technical Steering Committee (TSC)
https://wiki.lfedge.org/display/OH/%28TSC%29+Technical+Steering+Committee
Secure Device Onboard

**Brief Description**

The mission of the Secure Device Onboard project is to develop open source software to support an automated “Zero-Touch” onboarding service in order to more securely and automatically onboard and provision a device on edge hardware. This zero-touch model simplifies the installer's role, reduces costs and eliminates poor security practices, such as shipping default passwords.

**Contributed by**

Intel in June 2020

**Key Contacts**

Rich Rodgers, Intel

**Key Links**

- Website: [https://www.lfedge.org/projects/securedeviceonboard/](https://www.lfedge.org/projects/securedeviceonboard/)
- Wiki: [https://wiki.lfedge.org/display/SDO/Secure+Device+Onboard](https://wiki.lfedge.org/display/SDO/Secure+Device+Onboard)
- GitHub: [https://github.com/secure-device-onboard](https://github.com/secure-device-onboard)
- Mail Lists:
  - [https://lists.lfedge.org/g/SDO](https://lists.lfedge.org/g/SDO)
  - [https://lists.lfedge.org/g/SDO-TSC](https://lists.lfedge.org/g/SDO-TSC)
- Slack: [https://slack.lfedge.org/](https://slack.lfedge.org/) (#sdo-general / #sdo-help / #sdo-tsc)
State of the Edge

Brief Description
State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all.

Contributed by
Vapor IO and Packet
  Glossary - June 2018
  SOTE - April 2020

Key Contacts
Matthew Trifiro, Vapor IO, TSC Chair
Jacob Smith, Packet, TSC Co-Chair

Key Links
Website  https://www.lfedge.org/projects/stateoftheedge/
Wiki  https://wiki.lfedge.org/display/GLOSSARY/State+of+the+Edge
GitHub  https://github.com/State-of-the-Edge
Mail Lists  https://lists.lfedge.org/g/stateoftheedge
            https://lists.lfedge.org/g/glossary-tsc
            https://lists.lfedge.org/g/glossary-wg-landscape
Slack  https://slack.lfedge.org/
(#glossary / #glossary-landscape / #glossary-taxonomy / #glossary-tsc)
Landscape  https://landscape.lfedge.org/
State of the Edge Reports  https://www.stateoftheedge.com/reports/
Getting Involved with LF Edge Projects and Committees
<table>
<thead>
<tr>
<th>How Members Engage: LF Edge Marketing and PR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Co-promotion of project related updates, releases, and news via LF Edge social media accounts</strong></td>
</tr>
<tr>
<td><strong>Attend Outreach Committee meetings and participate in LF Edge driven marketing and outreach activities</strong></td>
</tr>
<tr>
<td><strong>Publish use cases, case studies, white papers, and deployment insights</strong></td>
</tr>
<tr>
<td><strong>Marketing and PR support for demos at meetups and events</strong></td>
</tr>
<tr>
<td><strong>Host vendor neutral content via LF Edge blog site</strong></td>
</tr>
<tr>
<td><strong>Get support for artwork, web site, content creation, etc., related to LF Edge and its projects</strong></td>
</tr>
<tr>
<td><strong>Be featured in the LF Edge Member Spotlight series</strong></td>
</tr>
<tr>
<td><strong>Coordination at events – speaking proposals, booth attendance, demos, etc.</strong></td>
</tr>
<tr>
<td><strong>Volunteer for planning initiatives such as developing annual marketing plan, preparing for major event, etc.</strong></td>
</tr>
<tr>
<td><strong>Identify LF Edge speaking opportunities in your region and help secure speakers from the LF Edge community</strong></td>
</tr>
<tr>
<td><strong>Help secure user stories about LF Edge based deployments.</strong></td>
</tr>
<tr>
<td><strong>Participate on the LF Edge Speakers Bureau</strong></td>
</tr>
</tbody>
</table>
## How Members Engage: LF Edge Technical Projects

<table>
<thead>
<tr>
<th>Participate in the development efforts: Review and submit code patches, report bugs, request new features, etc.</th>
<th>Attend developer events for LF Edge projects</th>
<th>Contribute to documentation</th>
<th>Provide your testing and deployment feedback via appropriate project channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Join the projects’ mailing lists and participate in the discussions</td>
<td>Start a local User Group Meetup</td>
<td>Join the LF Edge Technical Advisory Council (TAC) calls and subscribe to the TAC mailing list</td>
<td>Contribute to the Open Glossary of Edge Computing</td>
</tr>
</tbody>
</table>
# How Members Engage: Technical Advisory Council (TAC)

| Support TAC leadership in inviting speakers | **Attend TAC**  
Bi-weekly calls, participate in the discussion, volunteer | Share success stories, opportunities and challenges with the broader technical community to seek input from peers | Identify opportunities for collaboration on common interests and initiatives |
| Support technical leadership for harmonization efforts with other open source communities within and beyond LF Edge | Support TAC in hosting and sponsors intra-project and inter-project in-person developer events for LF Edge projects | **Support TAC in evaluating new projects for inclusion in LF Edge** | Support TAC Chair who works with the Governing Board to highlight the Projects’ collective opportunities and any resource needs |
Display Your LF Edge Membership Badge

These badges are available (svg and png) from the LF Edge GitHub: https://github.com/lf-edge/artwork

Members can display membership badges on booth collateral and on their website.
LF Edge Members showcased on LF Edge and Linux Foundation websites, as well as the new LF Edge Landscape
Brief the Editor of State of the Edge

New members have the benefit of scheduling a 30 minute briefing with the Lead Editor of State of the Edge, Matt Trifiro.

Ask Mike Woster for an introduction to Matt to schedule this call.

See 2020 State of the Edge Report

State of the Edge is an open source research and publishing project with an explicit goal of producing original research on edge computing, without vendor bias. The State of the Edge seeks to accelerate the edge computing industry by developing free, shareable research that can be used by all. The SotE Project contains LF Edge’s Glossary and Landscape projects.
Join the LF Edge Speakers Bureau (Member Benefit)

The LF Edge Speakers Bureau connects speakers who are LF Edge ambassadors who are willing to speak at events on the topics they are proficient in with event managers, meetup organizers and company conferences. Event organizers work directly with the LF Edge PR and Marketing team to secure speakers for their global events.

LF Edge Members: Sign up to be a Speaker today!

› Step 1: Fill out form
  › If you have trouble accessing the form above, email pr@lfedge.org for assistance
› Step 2: Send your photo to pr@lfedge.org
Linux Foundation Training Courses

Free Courses
› A Beginner’s Guide to Open Source Software Development
› Compliance Basics for Developers
› Fundamentals of Professional Open Source Management
› Business Considerations for Edge Computing

Paid Courses
› Introduction to Open Source Development, Git, and Linux
› DevOps for Network Engineers
› Getting Started with EdgeX Foundry (LFD213)

Contact training@linuxfoundation.org to get your member discount on eLearning, Instructor Led (Onsite & Virtual), and Certifications.
Linux Foundation edX and Training Courses

› Business Considerations for Edge Computing: https://www.edx.org/course/business-considerations-for-edge-computing

› Getting Started with EdgeX Foundry (LFD213): https://training.linuxfoundation.org/training/getting-started-with-edgex-foundry-lfd213/
Upcoming External Events

- Open Source Summit Japan: 2-4 December, 2020 - Virtual
- Open Source Summit North America: 4-6 August - Vancouver, Canada
- Open Source Summit Europe: 29 Sept - 1 Oct, 2021 - Dublin, Ireland
- IoT Solutions World Congress: 5-7 October, 2021 - Barcelona, Spain

Discussions around upcoming events occur in the LF Edge Outreach Committee
Members may subscribe at: https://lists.lfedge.org/g/outreach-committee
LF Edge Webinar Series

- Akraino Edge Stack
  - Held Thursday, April 2 - [Your Path to Edge Computing with Akraino Edge Stack](https://zoom.us/webinar/register/WN_Zjdo4-5fTQS1qH7pL8iHrQ)
  - On-demand recording available at: [https://zoom.us/webinar/register/wn_zjdo4-5fTQS1qH7P8iHrQ](https://zoom.us/webinar/register/wn_zjdo4-5fTQS1qH7P8iHrQ)

- EdgeX Foundry
  - Held Thursday, April 23 - [EdgeX Foundry 101: Intro, Roadmap and Use Cases](https://zoom.us/webinar/register/4515850788014/wn_xCd6YpJf0rCwLiFhBWPkug)
  - On-demand recording available at: [https://zoom.us/webinar/register/4515850788014/wn_xCd6YpJf0rCwLiFhBWPkug](https://zoom.us/webinar/register/4515850788014/wn_xCd6YpJf0rCwLiFhBWPkug)

- Project EVE
  - Held Friday, May 29 - [Building the “Android of the IoT Edge”](https://zoom.us/webinar/register/6415888722675/wn_35oZJ3hrQFE69snMajlUTPg)
  - On-demand recording available at: [https://zoom.us/webinar/register/6415888722675/wn_35oZJ3hrQFE69snMajlUTPg](https://zoom.us/webinar/register/6415888722675/wn_35oZJ3hrQFE69snMajlUTPg)

- White Paper
  - Held Thursday, July 9 - [Demystifying the Edge with the new LF Edge Taxonomy and Framework](https://zoom.us/webinar/register/wn_lcv5h6wTcuw900xMpgLw)
  - On-demand recording available at: [https://zoom.us/webinar/register/wn_lcv5h6wTcuw900xMpgLw](https://zoom.us/webinar/register/wn_lcv5h6wTcuw900xMpgLw)

- Fledge
  - Held Thursday, August 13 - [How Google, OSIsoft, FLIR and Dianomic use Fledge to implement Industrial 4.0](https://www.youtube.com/watch?v=6jXNv3AJWog)
  - Recording available at: [https://www.youtube.com/watch?v=6jXNv3AJWog](https://www.youtube.com/watch?v=6jXNv3AJWog)

- State of the Edge
  - Held Thursday, September 17 - [State of the Edge: Exploring the Intersection of IoT, AI, 5G and Edge Computing](https://zoom.us/webinar/register/8115959695936/wn_4rt-Mmp1Rl6Vkn3ULpiAA)
  - On-demand recording available at: [https://zoom.us/webinar/register/8115959695936/wn_4rt-Mmp1Rl6Vkn3ULpiAA](https://zoom.us/webinar/register/8115959695936/wn_4rt-Mmp1Rl6Vkn3ULpiAA)

- Home Edge
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- Open Horizon
  - Held Thursday, November 19 - [Secure Application Management for Machine Learning & Constrained Devices](https://zoom.us/webinar/register/wn_tYli1J71RWq1pni8FuPRpW)
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