Technical Advisory Council (TAC)

Update to Akraino Community Spring Technical Meetings

Jim St. Leger, Intel Corporation

TAC Chair

03 March 2021

THE LINUX FOUNDATION

LF EDGE

https://wiki.lfedge.org/pages/viewpage.action?pageId=1671298

LF Edge Summary

Vision: *Our software & projects enable rapid productization of Edge platforms by leveraging end user input to drive and supply the necessary building blocks (and/or frameworks, reference solutions) to facilitate integration and interoperability for Edge Computing across Telecom Service Providers, Cloud Providers, IOT & Enterprises*
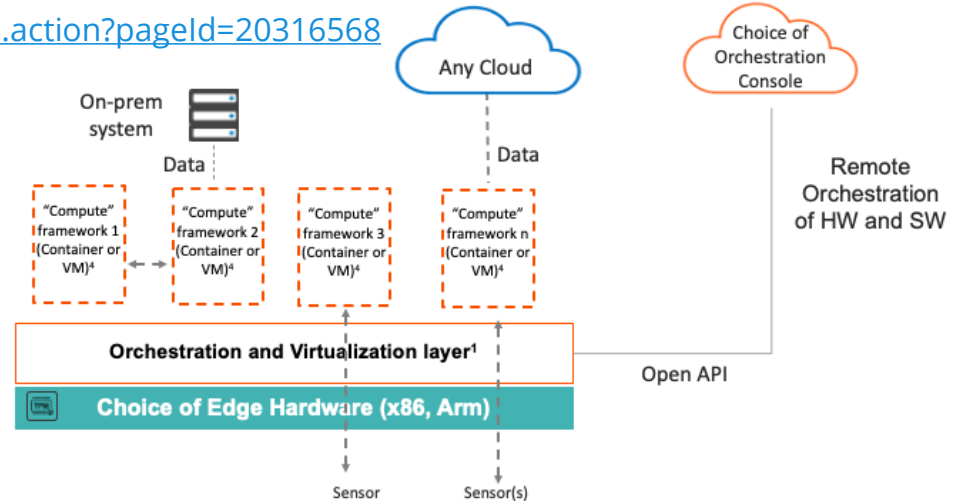
Projects

IMPACT - STAGE 3	GROWTH - STAGE 2	AT LARGE - STAGE 1

LF Edge Cross-Project Collaboration

› Industrial IoT (IIoT) at the Smart Device Edge – blueprint family

› Collaboration between Project EVE, Fledge, and Akraino

› https://wiki.akraino.org/pages/viewpage.action?pageId=20316568

THANK YOU

Choice of Orchestration Console

On-prem system

Any Cloud

Data

Data

Remote Orchestration of HW and SW

| "Compute" framework 1 (Container or VM)[4] | "Compute" framework 2 (Container or VM)[4] | "Compute" framework 3 (Container or VM)[4] | "Compute" framework n (Container or VM)[4] |

Orchestration and Virtualization layer[1]

Open API

Choice of Edge Hardware (x86, Arm)

Sensor

Sensor(s)

1   LF Edge's EVE does this without vendor lock-in or the risk of bricking the device.

2   **FLEDGE**   LF Edge's Fledge is an open source framework that has a common set of RESTful API's for administration and applications.

LF Edge –Community Lab

› Akraino Shared Community Lab has been up-leveled to LF Edge TAC Community Lab Subcommittee

› https://wiki.lfedge.org/display/LE/TAC+Community+Lab+Subcommittee

› Community Lab Charter complete

› Acceptable Use Policy (AUP) complete

› Active participants identified

› Subcommittee chair elected: Lincoln Lavoie

› Open meetings bi-weekly on Wednesday 1500 UTC

Current: https://wiki.akraino.org/display/AK/Shared+Community+Lab
Moving To: https://wiki.lfedge.org/display/LE/Shared+Community+Lab

THE **LINUX** FOUNDATION

LF EDGE

LFX Toolkit to Monitor the Health of Open Source Projects

Insights

Security **BETA**

Individual Dashboard

EasyCLA

Mentorship

Crowdfunding

Member Enrollment

Landscape

Community Events

Training Portal

Project Control Center
(Limited Access Beta Early 2021)

Organization Dashboard
(Limited Access Beta Early 2021)

THE **LINUX** FOUNDATION

https://lfx.dev or https://lfx.linuxfoundation.org/

LF EDGE

LFX Toolkit to Monitor the Health of Open Source Projects

Analytics on Source Control, PRs/Changesets, Issue Management, and CI/CD
Technical Trends and Ecosystem Trends
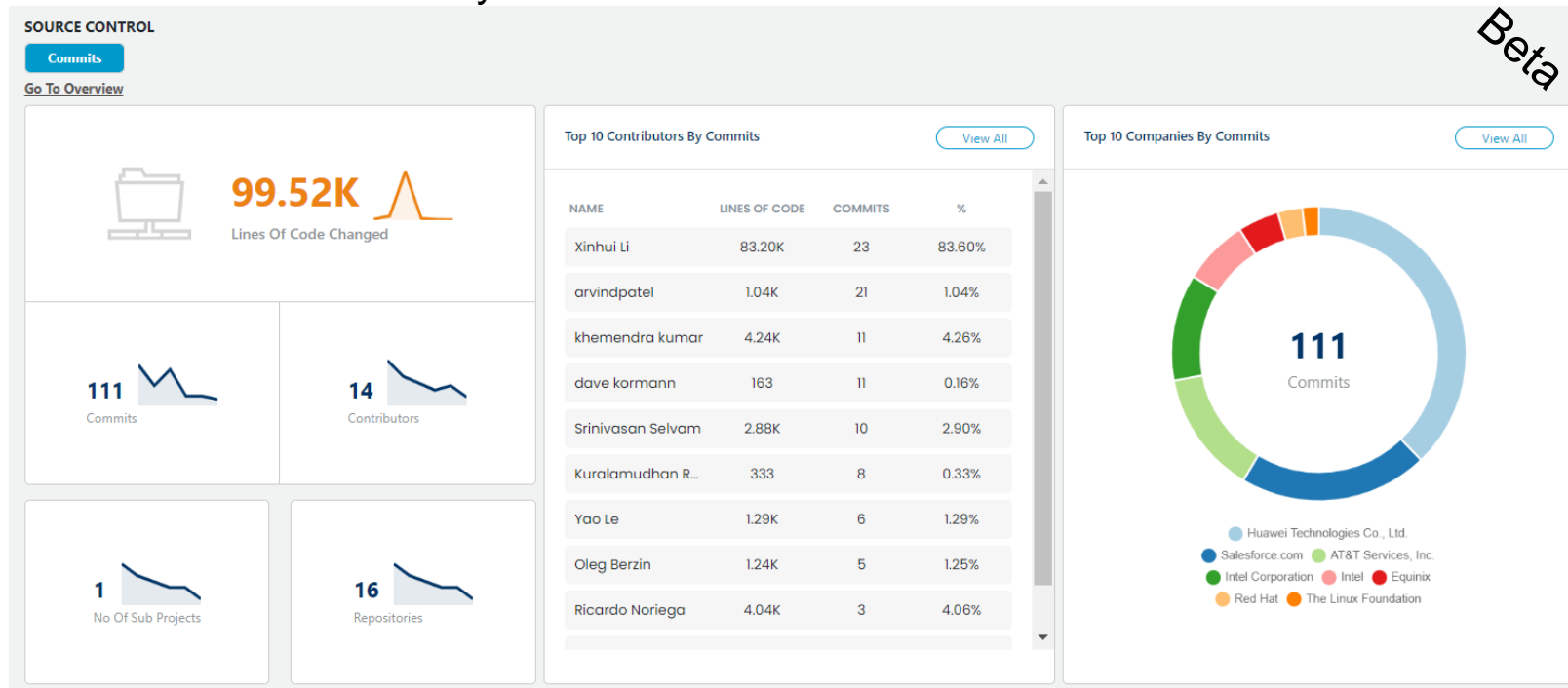
LF Edge Mentorships – Open Horizon

› Mid-2020 LFX Mentorship opportunity

› Four Open Horizon members became mentors

› >30 applicants narrowed down to 4 selected mentees

› Blog post describes the process and experience

› https://www.lfedge.org/2021/01/12/open-horizon-mentorships-with-lfx/

Open Horizon Mentorships with LFX

By LF Edge | January 12, 2021 | No Comments

› 2021 Mentorship Program has 3 mentors and 3 mentees

THE **LINUX** FOUNDATION

LFEDGE

Home Edge Project Earns Core Infrastructure Initiative Best Practices Badge

› Join March 10th TAC meetings to hear full CII details from Taras Drozdovskyi

https://bestpractices.coreinfrastructure.org/en

https://bestpractices.coreinfrastructure.org/en/projects/4336

LF Edge End Users Solutions Group

› End Users Solutions Group (EUSG) is forming and developing plans

› https://wiki.lfedge.org/pages/viewpage.action?pageId=7160474

› EUSG Charter and Participation Agreement are awaiting governing board review and approval

› Objective is to drive cross-project open discussion with end users around user requirements

› Goal of EUSG is to produce demos, messaging, white papers, collateral, etc.

› Currently looking for end users and industry expert companies

› Applicable industries include Manufacturing, Energy (Oil & Gas, Utilities), Commerce/Retail, Homes (including B2B2C use cases), Automotive, Fleet/Transportation, Logistics, Building Automation, Cities and Government, Agriculture, Healthcare, and any other verticals

Get Involved in the LF Edge Technical Communities (TSCs and TAC)

› Participation in LF Edge Projects is open to all

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

  › **Step 1:** Get a Linux Foundation ID Here: https://identity.linuxfoundation.org/
  › **Step 2:** Visit LF Edge Wiki (https://wiki.lfedge.org/)
  › **Step 3:** Join TAC meetings (every other Wednesday), workflows for the projects and working groups, subscribe to mailing lists, ask questions, contribute!

OPEN NETWORKING & EDGE SUMMIT
Hosted By
Distributed But Always Connected
September 28 – 30, 2020
Virtual Experience
#onesummit
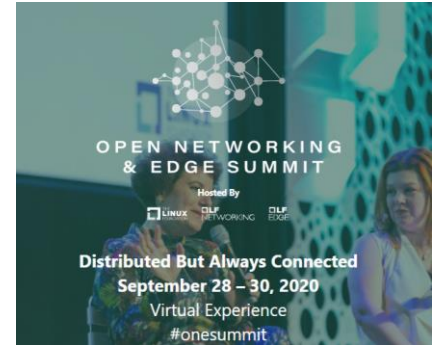
Ways to participate:

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

TAC Homepage   https://wiki.lfedge.org/pages/viewpage.action?pageId=1671298

THE **LINUX** FOUNDATION

LF EDGE

Summary

› Akraino's growth and execution continues

› Good cross-project collaboration. Please continue

› LF Edge Membership – we appreciate your support

› Join the TAC meetings. Participate!

Thanks

Questions?

Comments?