

Akraino Community Accomplishments

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Akraino Community Accomplishments – Key Highlights

- Ever since its launch in 2018, Akraino continues to gain community support for Edge collaboration and validation across projects and community with work going on in more than 22 Blueprints and 8 Feature Projects
- Akraino has had two releases (six-month release cadence) to date – Release 1 (R1) in June 2019 which delivered 10 blueprints and Release 2 (R2) in January, 2020 which delivered 14 blueprints, all tested and validated on real hardware labs supported by users and community members
- [R2](#) enhanced the [edge stacks delivered in R1](#) for cross-disciplinary edge use cases as well as new edge stacks to support connected vehicles, AR/VR, NFV, Telco Access, integration with SDN solutions and project promotions to maturity, with rigorous community standards
- Akraino introduced tools for automated Blueprint Validations, security tools for Blueprint Hardening and Edge API's in collaboration with LF Edge projects
- Akraino is now a **Stage 3 project** in LF Edge and is setting up a shared community lab for all LF Edge projects
- Akraino hosted several industry outreach events that featured participation from academia and conducted hackathons to foster collaboration and engagement on edge projects across the entire ecosystem
- Akraino's process improvements included introduction of new rules for post transition election based on meritocracy, establishing criteria for “mature” release, easing new members/developers onboarding to Akraino

Akraino R2: Unifying the Edge

NEWS

Akraino Edge Stack Enables Connected Car, AR/VR, AI Edge, and Telco Access Edge Application Use Cases

By [The Linux Foundation](#) January 16, 2020

- *Akraino R2 delivers new levels of flexibility for scale, efficiency, and high availability while accelerating deployment of edge application*
- *Augments edge stacks delivered in R1 – including Network Cloud, IoT Edge, Enterprise Edge, and Telecom Edge– with new and enhanced tested and validated deployment-ready blueprints*

SAN FRANCISCO – January 16, 2020 – [LF Edge](#), an umbrella organization within the [Linux Foundation](#) that aims to establish an open, interoperable framework for edge computing independent of hardware, silicon, cloud, or operating system, today announced the availability of [Akraino Edge Stack](#) Release 2 (“Akraino R2”). Akraino’s second release furthers the power of intelligent edge with new and enhanced deployable, self-certified blueprints for a diverse set of edge use cases.

Launched in 2018, and now a Stage 3 (or “Impact” stage) project under the LF Edge umbrella, Akraino Edge Stack is creating an open source software stack that supports a high-availability cloud stack optimized for edge computing systems and applications. Designed to improve the state of edge cloud infrastructure for enterprise edge, over-the-top (OTT) edge, and carrier edge networks, it offers users new levels of flexibility to scale edge cloud services quickly, to maximize the applications and functions supported at the edge, and to help ensure the reliability of systems that must be up at all times.



Akraino R2: Key Takeaways & What's Next in 2020

1. LF Edge Projects gaining community support with Akraino **which is now Stage 3 project** aimed at accelerating time to deployment -> Projects to Products & Production
2. Akraino establishes unified framework for Edge collaboration & validation across projects & community with Blueprints
3. Akraino's R2 release has 14 Blueprints for IoT, Enterprise, Telco and Radio Edge Cloud



On the Horizon

- › New blueprints (Edge AI/ML, 5G MEC/Slice, Time Critical Edge, Micro-MEC...) + enhancements to existing blueprints
- › Tools for automated blueprint validations
- › Edge API's in collaboration with LF Edge projects

Akraino R2: Industry enabler

Supplier of Blueprints to O-RAN, ONF, ONAP, LF Edge and other communities



Enhancements & More
Blueprints



Community Lab &
Validation



Mandatory security and
conformance testing



Liaison with Other community

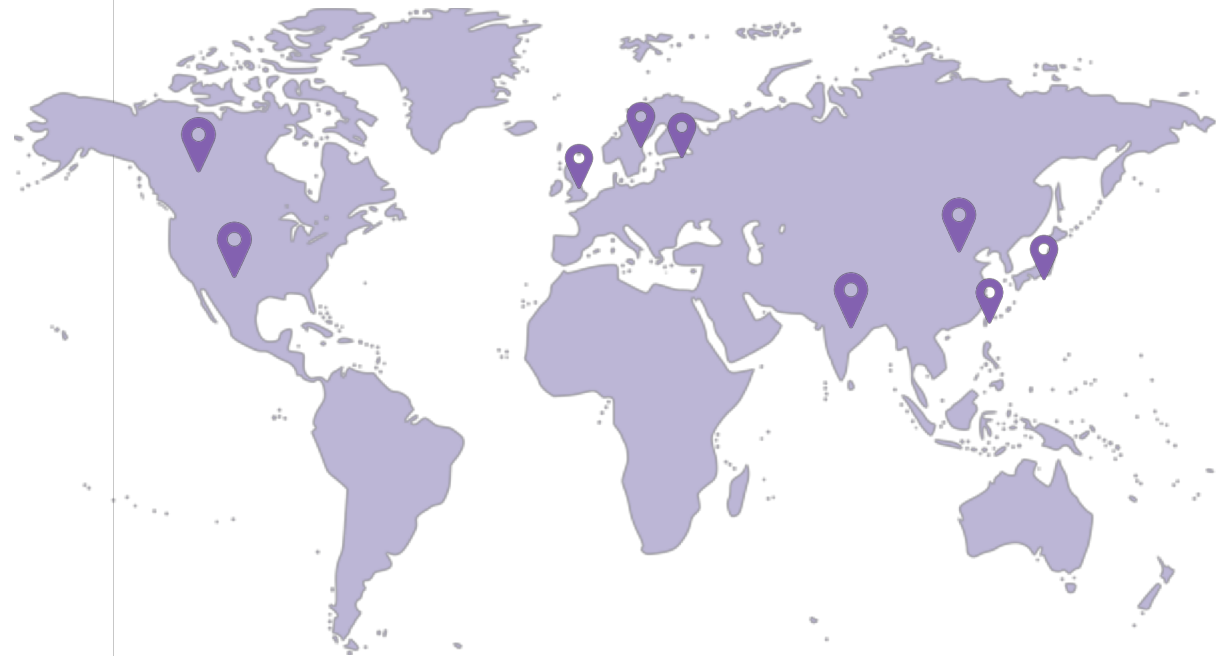
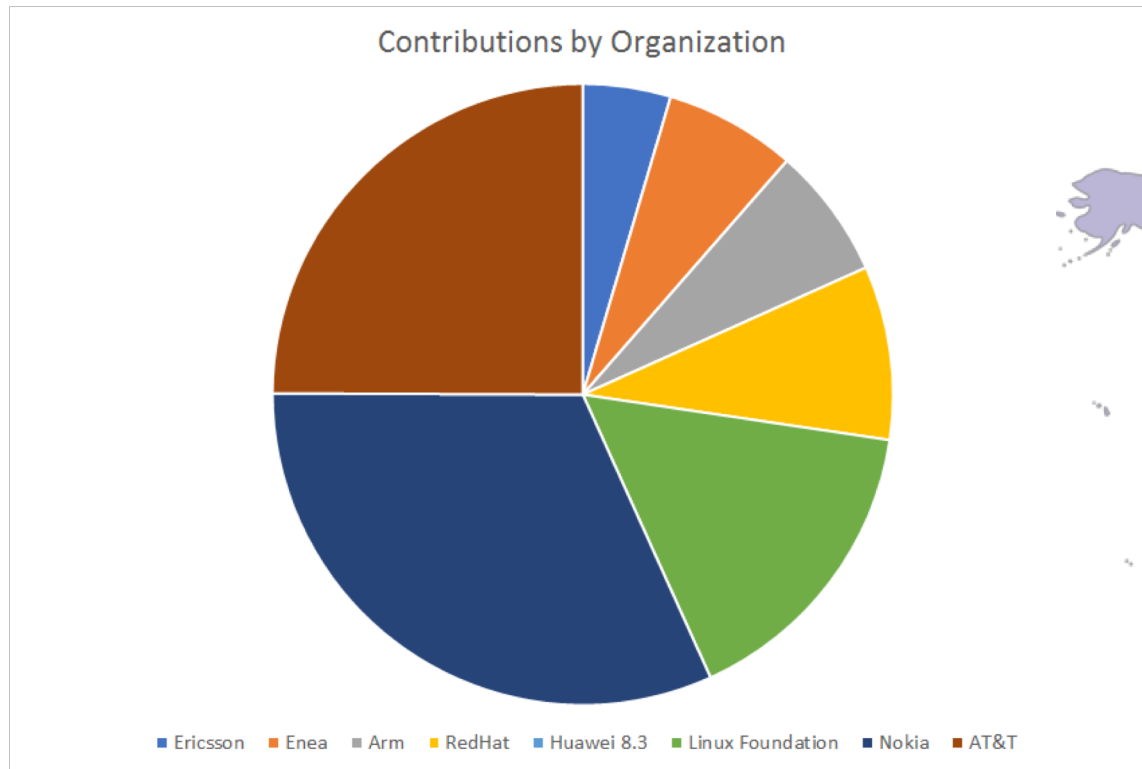


API Specs

Wiki Community lab: <https://wiki.akraino.org/display/AK/Community+Lab>

Robust Community Contribution Continues

Deployable and fully functional edge stack for use cases across IIoT, Telco 5G Core & vRAN, uCPE, Provider Access Edge, SDWAN, Edge Media Processing, and Carrier Edge Media Processing



70% LF Edge Premier Members Active in Akraino

Akraino Technical Steering Committee
Chair – Kandan Kathirvel, AT&T
Co-Chair – Tina Tsou, Arm

22 Blueprint Project
Technical Leads

8 Feature Project
Technical Leads

7 Sub-Committees

API
Chair - Vikram Siwach
Co-chair - Jane Shen, Futurewei

CI, Validation Lab
Chair(s) - Peter Pouliot
Co-Chair - Robert Qiu, Tencent

Community
Chair - Tapio Tallgren

Documentation
Chair - To be Elected

Process, Project review
Chair - Andrew Wilkinson

Security
Chair – Haitao Wang
Co-Chair - Randy Stricklin

Upstream
Chair – Jim Xu



Why to get involved?..

- › Only Opensource project that is driving full end-to-end innovation on edge computing
- › Opensource benefits all (Academia, Industry, Gov...)

How to get involved ?..

- › Join the projects' mailing lists and participate in the discussions
- › Join Akraino Community Events and Project calls
- › Akraino project, TSC and community calls are open to all (no membership needed).
- › Community calls are conducted every Thursday 11AM -12 PM, Eastern Time

Key Links:

Website:

<https://www/lfedge.org/projects/akraino>

Wiki:

<https://wiki.akraino.org>

Mail Lists:

<https://lists.akraino.org/g/main>

Blueprints:

<https://wiki.akraino.org/display/AK/Approved+blueprints>

Calendar:

<https://wiki.akraino.org/display/AK/Akraino+TSC+Group+Calendar>

