

A background graphic featuring a network of blue lines connecting various yellow circular nodes, set against a dark blue gradient background.

LF Edge TAC Technical Advisory Council

1 July 2020

 THE **LINUX** FOUNDATION

 **LF** EDGE

Meeting Details

- › July 1, 2020 (@ 7:00am PDT)
- › Meeting Info:
 - › Join Zoom Meeting
 - › <https://zoom.us/j/286673048>
 - ›
 - › One tap mobile
 - › +16699006833,,286673048# US (San Jose)
 - › +16465588656,,286673048# US (New York)
 - ›
 - › Dial by your location
 - › +1 669 900 6833 US (San Jose)
 - › +1 646 558 8656 US (New York)
 - › +1 855 880 1246 US Toll-free
 - › +1 877 369 0926 US Toll-free
 - › Meeting ID: 286 673 048
 - › Find your local number: <https://zoom.us/u/aeeh8taqXU>

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LF Edge TAC

Project/Member	Representative	Named Alternate	Project/Member	Representative	Named Alternate
Altran	Shamik Mishra	Nilanjan Samajdar	GE Research	Joel Markham	James Ward
Arm	Reed Hinkel	Tina Tsou	HP Inc.	Henry Lau	
AT&T	Kandan Kathirvel		HPE	Rodney Richter	Arun Thulasi
Baidu	Leding Li		Huawei	JianGuo Zeng	Gabriel Yuyang
Charter	Mohammad Zebetian		IBM	Joseph Pearson	Ryan Anderson
Dell	Trevor Conn	Sean McGinnis	Intel	Jim St. Leger (TAC Chair)	Emad Attia
Dianomic	Bill Hunt	Tom Arthur	Inwinstack	Thor Chin	
Equinix	Justin Dustzadeh		MobiledgeX	Vikram Siwach	
Ericsson	Torbjörn Keisu	Andrew Wilkinson	Netsia	Mahir Gunyel	
Fujitsu	Hatsumi Iino	Toshimichi Fukuda	Nokia	Tapio Tallgren	
Futurewei	Chaker Al-Hakim	Jane Shen	NTT	Takeshi Kuwahara	

LF Edge TAC

Project/Member	Representative	Named Alternate	Project/Member	Representative	Named Alternate
OSIsoft	Daniel Lazaro		Akraino	Kandan Kathirvel	Tina Tsou
Qualcomm	Lisa Lammens		EdgeX Foundry	Henry Lau	
Radisys	Adnan Saleem	Prakash Siva			
Red Hat	Frank Zdarsky				
Samsung	Myeonggi Jeong	Chi-Hyun Cho			
Seagate	Matt Shumway				
Tencent	Yachen Wang	Wei Chen			
Wipro	Subhas Mondal				
ZEDEDA	Erik Nordmark	Roman Shaposhnik			

Topics

1. Proposed Project Advancement - Fledge: Status Update
2. Annual Review Process update
3. Upcoming Events
4. Next Meeting

Proposed Project Advancement - Fledge: Status Update

Fledge: Stage 2 Proposal

- › Proposal: <https://wiki.lfedge.org/pages/viewpage.action?pageId=20940189>
- › Timeline/Next Steps ([Process](#)):
 - › Thursday, May 21, 2020: Proposal emailed to TAC
 - › Wednesday, June 3: TAC Presentation
 - › --2 Week Review Period (ending Wednesday, June 17)
 - › Wednesday, June 9: TAC Subgroup Review - [Notes](#) / [Recording](#)
 - › Wednesday, June 17: TAC Subgroup Readout
 - › **Today** - Updates from Fledge since the TAC Subgroup Readout / Vote initiated over email
 - › Acceptance criteria for Stage 2: Receive a two-thirds vote of all TAC representatives that do not abstain the vote and a majority vote of the Governing Board to move to Growth Stage.

Fledge: Stage 2 Proposal

Updates since last TAC call:

- › Third Fledge TSC call: June 24, 2020: [Slides](#), [Minutes](#), [Meeting Recording](#).
- › Fledge TSC Chair named: Mark Riddoch (mark@dianomic.com)
- › Community Contributions (see [Slides](#) for a list of new plugins and contributors).
- › Joint EdgeX TSC/Fledge TSC call to discuss future collaboration options.
- › Updated Fledge [Wiki](#).

Annual Review Process

Annual Review Process

1. The TAC shall develop an Annual Review process to determine whether projects are in the stage that accurately reflects their needs and goals. If a project is determined to be out of place, the TAC shall provide guidance to the project in the form of recommendations towards resolving the situation. ([reference](#))

2. **Status Update:** Subgroup formed to draft the Annual Review Process; last met on June 29
 - a. Draft of Process available at <https://wiki.lfedge.org/display/LE/Project+Annual+Reviews>
 - i. Specifically for Projects: Please review and provide feedback on potential modifications for clarity
 - b. Email bpreston@linuxfoundation.org to be added to recurring meeting invite (invite also posted to the [TAC mail list calendar](#).) All are welcome to participate!

Upcoming Events

Upcoming External Events

- › [Open Source Summit North America](#): 29 June - 2 July, 2020 - Virtual
 - › LF Edge and projects will be featured in several sessions
 - › [IIOT World](#): 30 June - 1 July, 2020 - Virtual
 - › Arpit Joshipura: "Uniting the Edge for Tomorrow's Demands."
 - › Jim White: "Using Open Source Technology to Manage IoT/Edge Solutions."
 - › [LF Edge Mini-Summit](#): 2 July, 2020 - Virtual
 - › [Open Source Summit Japan](#): 15-16 September, 2020 - Tokyo, Japan
 - › CFP Closes July 11: <https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/>
 - › [Open Networking & Edge Summit North America](#): 28-29 September, 2020 - Virtual
 - › [ONES Unconference Track](#)
 - › [Open Source Summit Europe](#): 26-28 October, 2020 - Dublin, Ireland
 - › CFP Closes July 26:
<https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/>
 - › [KubeCon/CloudNativeCon North America](#): 17-20 November, 2020 - Boston, MA
 - › [IoT Solutions World Congress](#): 11-13 May, 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

- › [Demystifying the Edge with the new LF Edge Taxonomy and Framework](#)
 - › Scheduled for July 9
 - › **Register today** at: https://zoom.us/webinar/register/WN_icv5h6wFTcuw9O0xvMpgLw

- › Akraino Edge Stack
 - › [Your Path to Edge Computing with Akraino Edge Stack](#)
 - › Held Thursday, April 2
 - › On-demand recording available at: https://zoom.us/webinar/register/WN_Zjdo4-5fTOSlqH7pL8iHrQ

- › EdgeX Foundry
 - › [EdgeX Foundry 101: Intro, Roadmap and Use Cases](#)
 - › Held Thursday, April 23
 - › On-demand recording available at: https://zoom.us/webinar/register/4515850788014/WN_xCd6YPjEOrcwLiFhBWPkug

- › Project EVE
 - › [Building the “Android of the IoT Edge”](#)
 - › Held Friday, May 29
 - › On-demand recording available at: https://zoom.us/webinar/register/6415888722675/WN_35oZj3hrOE69snMaijUTPg

- › More to follow...

Upcoming Project Events

- › [EdgeX Challenge Shanghai 2020](#)
 - › Launch Date: July 3rd, 2020
 - › Location: Shanghai + Online
 - › Organizer: Linux Foundation APAC and [Science & Technology Commission \(STCSM\) of Shanghai Municipal Government](#)
 - › Sponsors: Intel, VMware, InnoSpace, Dell Technologies, Thundersoft
 - › Supporting Organizations: CCFA (China Chain Store & Franchise Association), Tencent, IOTech
 - › Tracks:
 - › Commercial (Retail, Hospitality, Banking, Education, etc.)
 - › Using EdgeX, based on IOT, AI and data analysis technologies, build innovative applications related to consumer, merchandise, and store.
 - › Use EdgeX to build multi-sensor correlated IoT applications.
 - › Use EdgeX to build applications beneficial to defeat COVID-19.
 - › Combine EdgeX with 5G, blockchain or service robot to build innovative applications
 - › Industrial (Factories, Power, Oil/Gas, Utilities)
 - › For the multi-edge node scenario, build an SDN + containerized IT solution based on EdgeX
 - › In discrete or process (with lower latency requirements) manufacturing, use EdgeX to achieve low latency fault detection and response on the production line
 - › In Discrete Manufacturing, use EdgeX to Detect Product Defects Online
 - › Using EdgeX to collect data, proceed with energy management of electric/gas/coal/oil, to improve energy efficiency. (Such as: building a thermodynamic model, completing heat meter data collection and automatic valve opening control to optimize heating efficiency)
 - › Using EdgeX to realize remote unmanned monitoring of multiple data sources and automatic control of the on-site environment.

Linux Foundation edX Course

- › Business Considerations for Edge Computing:
<https://www.edx.org/course/business-considerations-for-edge-computing>
- › Additional Course targeted to EdgeX Foundry scheduled for launch shortly

Next Meeting

Next Meeting

- › Next Meeting: Wednesday, July 15 @ 7am PDT
 - › State of the Edge: Landscape Update
 - › Baetyl: Project Update

Thank You

Resources

Project Resources: Getting Started Checklist

1. <https://wiki.lfedge.org/display/LE/Technical+Project+Getting+Started+Checklist>
2. Best Practices Guide for new, and existing, LF Edge Projects to define/refine/enhance their Project Management
3. Will be sent to Project TSC Leads for additional input / examples
4. Welcome feedback in the TAC as well

LF Edge TAC - Focus Areas for 2020

Target areas identified for the TAC to direct focus, beyond PLD/Project Review

- 1. Architecture (Tech > LF Edge) - Output: TBD (*White paper?*)**
2. APIs Document, Align and Publish
3. SDO/Consortiums expansion
- 4. Forcing function - Use Case or Deployment > Demo across all projects**
5. Technical overlap/unification
6. Cross Project Collaboration
7. IT Efficiencies

Out of Scope for the TAC (for now)

1. Vertical Solutions (End User / SIG Program)
 - a. At Board/SPC level

Example filters:

Open source cards by age

Apache-2.0 landscape

Cards by stars

Group by location

Cards by MCap/Funding

Download as CSV

STATE OF THE EDGE 2020

LF Edge Interactive Landscape

The LF Edge landscape (png, pdf) is dynamically generated from a community-supported Github account. It is modeled after the CNCF landscape and based on the same open source code.

If you would like to contribute, please open a pull request with projects in the edge ecosystem. Please note all images submitted must be true SVG files, include a URL to the company's site, and a Crunchbase link. Please open a pull request to correct any issues. Greyed logos are not open source. Last Updated: 2020-06-10 14:46:31Z

You are viewing 168 cards with a total of 94,159 stars, market cap of \$7.84T and funding of \$5.12B.

Landscape Card Mode

Twitter 0 100%

ORG Traffic Routing Communication Service Provider CDN & Distributed Caches Edge PaaS IoT Focused Decentralized

Security Networking Monitoring Provisioning Virtualization IAAS Physical Other

The intent is for the Landscape to be a living document that developers, investors, vendors, researchers and others can use as a resource on the landscape of edge computing.

Core Silicon (CPU / PLC) Accelerators (GPU / FPGA / TPU) Edge OEMs Wireless Wireline Real Estate / Land Towers Municipal Right of Way (Permits) Services / System Integrators

Premier General Associate

Glossary Project: Landscape WG Updates

- › **Submit a PR** with (Category/Subcategory, name, homepage, logo (svg), twitter, crunchbase, stage (if applicable) or open an Issue with the same information.
 - › Fork repo at <https://github.com/State-of-the-Edge/lfedge-landscape>
 - › Update landscape.yml
 - › Submit a PR
- › Open an issue if a category doesn't match or work

```
@@ -21,10 +21,17 @@ landscape:
 21 21     name: Platforms
 22 22     subcategories:
 23 23     - subcategory:
 24 -       name: CDN & Distributed Caches
 25 -       items: []
 24 +       name: Communication Service Provider
 25 +       items:
 26 +       - item:
 27 +         name: Akraino
 28 +         homepage_url: 'https://www.lfedge.org/projects/akraino/'
 29 +         logo: akraino.svg
 30 +         project: growth
 31 +         twitter: 'https://twitter.com/LF_Edge'
 32 +         crunchbase: 'https://www.crunchbase.com/organization/lf-edge'
 26 33     - subcategory:
```

LF Edge TAC Projects / PLD Update - Pipeline

Note: Projects listed below have indicated some level of interest since Project Launch.

- › Coaty (Siemens) (*invited August 21, 2019; targeting Q1*)
- › Flogo (Tibco)
- › Open19 (via Vapor.io)
- › Wormhole (OSS name Flowgate)
- › Rafay (Rafay Systems)
- › Project Sandstar (Anka Labs, Inc.)
- › Synse (Vapor.io)
- › Cisco IoT/Agribusiness OS Project (Cisco)
- › infinimesh (infinimesh)