

Meeting Details

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June 17, 2020 (@ 7:00am PDT)
Meeting Info:
  Join Zoom Meeting
      https://zoom.us/i/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
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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 lino	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	Jim White	Keith Steele
Radisys	Adnan Saleem	Prakash Siva			
Red Hat	Frank Zdarsky				
Samsung	Myeonggi Jeong	Chi-Hyun Cho			
Seagate	Matt Shumway				
Tencent	Yachen Wang	Wei Chen			
Wind River	Glenn Seiler				
Wipro	Subhas Mondal				
ZEDEDA	Erik Nordmark	Roman Shaposhnik			





Topics

- 1. Proposed Project Advancement Subgroup Readout: Fledge
- 2. Annual Review Process update
- 3. LF Edge YouTube
- 4. Upcoming Events
- 5. Next Meeting





Proposed Project Advancement -Subgroup Readout: Fledge

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Fledge: Stage 2 Proposal

- > Proposal: https://wiki.lfedge.org/pages/viewpage.action?pageId=20940189
- > Timeline/Next Steps (<u>Process</u>):
 - > 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
 - > **Today** TAC Subgroup Readout / Vote initiated over email (if motion/second are raised)
 - 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 - TAC Subgroup Readout (1 of 2)

Recommendation to defer the decision to advance Fledge to a Stage 2 LF Edge Project

The TAC Project Review Subgroup for Fledge recently met (June 15, 2020) to review the request of the Fledge project to advance to Stage 2, Growth, within LF Edge.

As a matter of formality, the subgroup believes that the project does not quite meet the expectations of the TAC for Stage 2 projects as set forth in Project Lifecycle Document. Therefore, the subgroup recommends that the decision for advancing to Stage 2 should be deferred until more information is provider per guidelines on the next page. Considerations for this decision included:

Positives

- > Clear overall project value prop with significant progress over the past year
- > Some contributions from major names like Google and Oracle
- > Documentation of use in POCs includes interesting industrial pilot/production use cases
- > Some demonstration that the current level of community participation is sufficient to meet the goals outlined in the growth plan.

Areas of Concern

- > Fledge did not run a TSC until only recently. While not called out in PLD requirements for Stage 2, operating an open TSC is part of every <u>project</u> <u>charter</u>.
- > Majority of code contributions and all PoCs are backed by Dianomic / parent OSI, and their partners, rooted in commercial vs community interest
- No demonstration of evidence of, or a plan for, interoperability, compatibility or extension to other *competing* LF Edge Projects, specifically EdgeX Foundry. Note:
 - **a.** The Fledge community has shown no interest in collaboration on even something as simple as a protocol bridge for interoperability between the two existing frameworks despite several offers from the EdgeX community over the past year
 - **b.** The planned collaboration documented in the submission is with Project EVE, Open Horizon and incoming Intel SDO, however this is not controversial for the Fledge community because these projects are all completely complementary





Fledge: Stage 2 Proposal - TAC Subgroup Readout (2 of 2)

Upon review, the subgroup has determined that while the Fledge project has made great progress over the past year, the intent to build a true open source community in the spirit of the LF Edge mission is not clear at this time.

On behalf of the of the Fledge subgroup, we recommend the TAC vote to defer the decision to advance Fledge to a Stage 2 LF Edge Project.

The subcommittee welcomes the Fledge community to resubmit for Stage 2 (on no particular time scale) with more evidence of:

- 1. Momentum in the hosting of regular, open TSC meetings. The recommendation is at least four more meetings, with no requirement on participation level or makeup outside of being completely vendor-neutral.
- 2. What aspects of the stated roadmap will be OSS vs. kept for commercial use by participating parties. This transparency is a key benefit gained by regular TSC discussions.
- 3. A plan for at least a portion of project growth to come from the open community rather than participating companies that leverage Fledge for commercial offers, however to get to Stage 2 there is no requirement for evidence of contributions, specific # of contributors, contributing companies, etc. Just a plan to convey intent to work in the true spirit of the OSS community.
- 4. Intent to collaborate at least minimally with heavily overlapping projects like EdgeX. This should include evidence of thinking to harmonize over time as it makes sense to accelerate the industry while being necessarily different due to address inherent technical and logistical tradeoffs spanning the edge continuum based.





Annual Review Process

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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 15
 - a. Subgroup agreed to start by defining 3 things:
 - i. **Goal(s).** What do we want as an outcome of the Annual Review process.
 - ii. **Criteria.** Define the criteria that will be used for the Annual Review process.
 - iii. **Process.** Define the process that will be used to apply the criteria against a project under the Annual Review
 - b. Draft of Goal(s) under review in the subgroup:

 [https://drive.google.com/file/d/1b0cHLMHukysgeHsAB2EjNT-a4HvJ8LLH/view?usp=sharing]
 - c. Email <u>bpreston@linuxfoundation.org</u> to be added to recurring meeting invite (invite also posted to the <u>TAC mail list calendar</u>.) All are welcome to participate!



For TAC Discussion/Affirmation: Goals - What do we want as an outcome of the Annual Review process

Current draft of the Goal:

The goal of the LF Edge Annual Review Process is to provide a Project Health Assessment. Health indicators shall include a quantifiable review against their current Stage expectations and acceptance criteria (meets/needs improvement/missing).

Understanding that the goal for any Project should be to advance towards Stage 3 (Impact), the TAC community will work with the Project to help address items tagged needs improvement/missing, providing consult and share best practices as part of the Review Process.

The TAC shall provide feedback as to whether the submitting Project is meeting current Stage requirements. Additionally, if the submitting Project has intentions to advance to the next Stage in the upcoming year, the TAC shall provide input as to progress towards the requirements for acceptance into the next stage.

Results of the Annual Review Process shall be posted to the Wiki.





LF Edge YouTube

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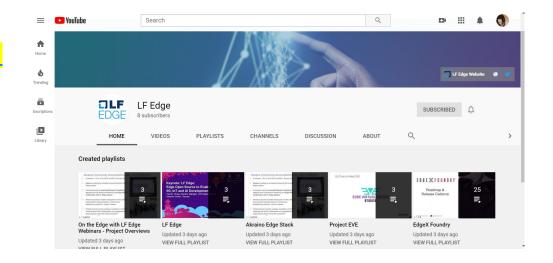
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LF Edge YouTube Channel - Now Live!

Please subscribe to the new LF Edge YouTube channel:

<u>https://www.youtube.com/channel/U</u> CY7H1oSt8gvXNdXH9wrNg5O

- Webinar recordings, past session presentations and more will live here
- Please share the link with your friends and colleagues





Upcoming Events

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Upcoming External Events

Additional LF Edge events available at: https://www.lfedge.org/events/

- Open Source Summit North America: 29 June 2 July, 2020 Virtual
 - LF Edge and projects will be featured in several sessions
- > <u>IIOT World</u>: 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."
- > Open Source Summit Japan: 15-16 September, 2020 Tokyo, Japan
 - > CFP Open: 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 Open: https://events.linuxfoundation.org/open-source-summit-europe/program/cfp/
- <u>KubeCon/CloudNativeCon North America</u>: 17-20 November, 2020 Boston, MA
- > <u>IoT Solutions World Congress</u>: 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

- 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-Zjdo4-5fTQSlgH7pL8iHrQ
- 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-xCd6YPjEQrCwLiFhBWPKug
- > 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-35oZJ3hrQE69snMaiJUTPg
- 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, Al 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 in June



Next Meeting

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Next Meeting

- Next Meeting: Wednesday, July 1 @ 7am PDT
 - Baetyl update
- Other business
 - > TAC Arch WG proposing to suspend meetings until work on v2 of the Arch WG white paper initiates





Thank You

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Resources

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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

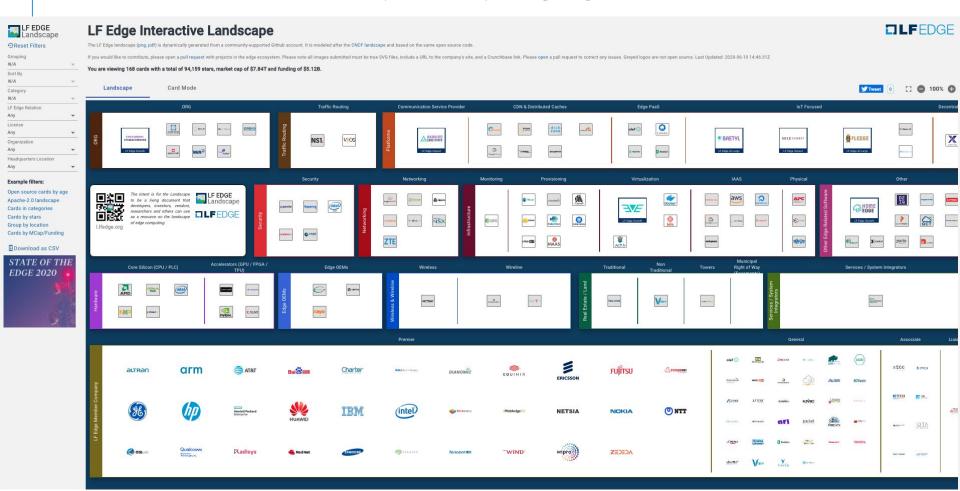
- 1. Architecture (Tech > LF Edge) Output: TBD (White paper?)
- 2. APIs Document, Align and Publish
- 3. SDO/Consortiums expansion
- 4. Forcing function Use Case or Deployment > Demo across all projects
- 5. Technical overlap/unification
- 6. Cross Project Collaboration
- 7. IT Efficiencies

Out of Scope for the TAC (for now)

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

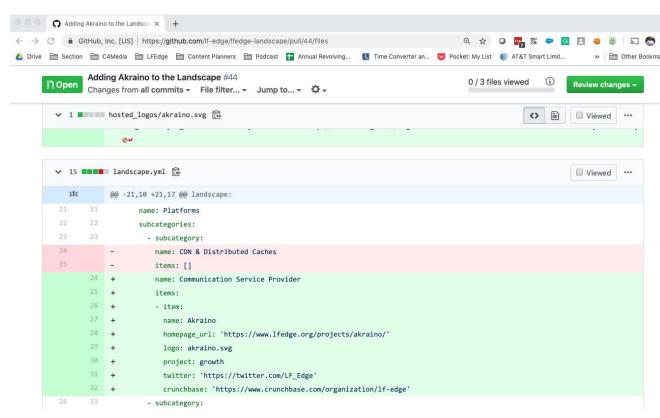


https://landscape.lfedge.org/



Glossary Project: Landscape WG Updates

- Submit α 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/
 Ifedge-landscape
 - Update landscape.yml
 - > Submit a PR
- Open an issue if a category doesn't match or work







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)

