

A network diagram background consisting of numerous yellow circular nodes connected by thin blue lines, set against a dark blue gradient background. The nodes are scattered across the frame, with a higher density on the right side.

LF Edge TAC Technical Advisory Council

26 August 2020

 THE **LINUX** FOUNDATION

 **LF** EDGE

Meeting Details

- › August 26, 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)
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 - › Dial by your location
 - › +1 669 900 6833 US (San Jose)
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 - › +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	Jeffrey Saelens	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	Toshimichi Fukuda	Hatsumi Iino	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	Thomas Nadeau			
Samsung	MyeongGi Jeong	Chi-Hyun Cho			
Seagate	Matt Shumway				
Tencent	Yachen Wang	Wei Chen			
Wipro	Subhas Mondal				
ZEDEDA	Erik Nordmark	Roman Shaposhnik			

Topics

1. Annual Review: EdgeX Foundry [20 minutes]
2. Akraino: R3 Release [20 minutes]
3. Project Release Schedules [5 minutes]
4. Upcoming Events [5 minutes]
5. Next Meeting

Annual Review: EdgeX Foundry
Jim White, EdgeX TSC Chair

Annual Review: EdgeX Foundry

1. Project Annual Reviews - Overview/Process: <https://wiki.lfedge.org/display/LE/Project+Annual+Reviews>
2. EdgeX Foundry Self-assessment: <https://wiki.lfedge.org/display/LE/EdgeX+Foundry+-+Stage+3+-+2020-08-26>
3. Other Projects with reviews coming up:

a.

Project	Accepted	Last Reviewed	Next Review Due	Maturity Level
Akraino	1/24/19	12/3/19	12/3/20	Stage 3 - Impact
Baetyl	8/5/19	8/5/19	9/12/20	Stage 1 - At Large
EdgeX Foundry	1/24/19	6/10/19	9/12/20	Stage 3 - Impact
EVE	1/24/19	5/21/19	9/12/20	Stage 2 - Growth
Fledge	6/27/19	7/19/20	7/19/21	Stage 2 - Growth
Home Edge	1/24/19	5/21/19	9/12/20	Stage 2 - Growth
Open Horizon	4/9/20	4/9/20	4/9/21	Stage 1 - At Large
Secure Device Onboard	6/4/20	6/4/20	6/4/21	Stage 1 - At Large
State of the Edge	1/24/19	5/21/19	9/12/20	Stage 2 - Growth

EdgeX Foundry Annual Review Summary

- › Annual Review Wiki Page:
<https://wiki.lfedge.org/display/LE/EdgeX+Foundry+-+Stage+3+-+2020-08-26>
- › The project continues to meet LF Edge stage 1,2 and 3 acceptance criteria
 - › Admittedly, we may not always be meeting the criteria exactly as prescribed by PLD documents
 - › Ex: governance and process matters are captured in our Wiki vs markdown files in some repository
 - › Areas for improvement: highlighting our affiliation with LF Edge on the Web site and highlighting adoption/adopters
- › Project Highlights
 - › 6 successful and on-time releases over three years (7th coming in the fall)
 - › Almost 7 million container downloads
 - › 180 global contributors - averaging 30 committers a month
 - › Adoption stories from the likes of Accenture, HP, ThunderSoft, and more now being captured and highlighted
 - › Forthcoming website improvements and clean up (fall 2020)
 - › 3rd successful (and drama-less) TSC election cycle completed in June
 - › We average 50% change over in project leadership per year (a healthy mix of knowledge transfer and new blood into the project)

Akraino: R3 Release

Kandan Kathirvel, Akraino TSC Chair

Tina Tsou, Akraino TSC Co-Chair

Akraino: R3 Release

- › <https://www.lfedge.org/projects/release-3/>
- › See [attached presentation](#)

Project Release Schedules

Project Release Schedules

- › <https://wiki.lfedge.org/display/LE/Upcoming+Release+Calendar>
- › Projects requested to update (or email Brett with updates and he can implement)

Upcoming Release Calendar

Created by Anonymous, last modified by Brett Preston on Aug 17, 2020

Below is meant to provide a snapshot into Upcoming Release Calendars for each of the Projects currently hosted under LF Edge.

Release dates are subject to change.

For the latest information on each Project's upcoming releases, or access to prior releases, please visit:

- Akraino - <https://wiki.akraino.org/display/AK/Releases>
- Baetyl - <https://github.com/baetyl/baetyl/releases>
- EdgeX Foundry - <https://wiki.edgexfoundry.org/display/FA/Releases> / <https://wiki.edgexfoundry.org/display/FA/Roadmap>
- EVE - <https://github.com/lf-edge/eve/releases> > waterfall release model
- Fledge - <https://github.com/lfedge-iot/fledge/releases>
- Home Edge - <https://wiki.lfedge.org/display/HOME/Roadmap>
- Open Horizon - Coming Soon
- Secure Device Onboard - Coming Soon
- State of the Edge - <https://github.com/lf-edge/glossary/blob/master/edge-glossary.md>



Upcoming Events

Upcoming External Events

- › [DevOps World](#): 22-24 September, 2020 - Virtual
 - › Featuring presentations about EdgeX Foundry
 - › [Open Networking & Edge Summit North America](#): 28-30 September, 2020 - Virtual
 - › Demo pavilion and multiple sessions across LF Edge Projects
 - › [Edge Computing World](#): 12-15 October, 2020 - Virtual
 - › [Open Source Summit Europe](#): 26-29 October, 2020 - Virtual
 - › [KubeCon/CloudNativeCon North America](#): 17-20 November, 2020 - Virtual
 - › [Open Source Summit Japan](#): 2-4 December, 2020 - Virtual
 - › [IoT Solutions World Congress](#): 11-13 May, 2021 - Barcelona, Spain
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- › 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

- › State of the Edge
 - › [State of the Edge: Exploring the Intersection of IoT, AI, 5G and Edge Computing](#)
 - › Scheduled for **Thursday, September 17 @ 9am PT**
 - › **RSVP at https://zoom.us/webinar/register/WN_4rt-MmP1RI6Vkzn3ULpiAA**

- › 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_Zjdo4-5fTOSlqH7pl8iHrO
- › 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_35oZl3hrOE69snMailUTPg
- › White Paper
 - › Held Thursday, July 9 - [Demystifying the Edge with the new LF Edge Taxonomy and Framework](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/WN_icv5h6wFTcuw9O0xvMpgLw
- › Fledge
 - › Held Thursday, August 13 - [How Google, OSIsoft, FLIR and Dianomic use Fledge to implement Industrial 4.0](#)
 - › On-demand recording available at: <https://www.youtube.com/watch?v=6jXNv3AIWog>

- › More to follow...

Upcoming Project Events

- › [EdgeX Challenge Shanghai 2020](#)
 - › Launch Date: July 3rd, 2020 / End Date: October, 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 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/>

Next Meeting

Next Meeting

- › Next Meeting: Wednesday, September 9 @ 7am PDT
 - › Project Annual Review - TBD
 - › Home Edge - October
 - › Baetyl - ?
 - › EVE - ?
 - › State of the Edge - ?
 - › TAC White Paper v2
 - › Vertical Solution/End User Kickoff Event(s)
 - › LF Expanded Mentorship Program

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

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)