LF Edge TAC
Technical Advisory Council

9 September 2020

Meeting Details

- › September 9, 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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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	David Lake	Sean McGinnis	**Intel**	Jim St. Leger (TAC Chair)	Sharad Mishra
Dianomic	Bill Hunt	Tom Arthur	**Inwinstack**	Thor Chin	
Equinix	Justin Dustzadeh		**MobiledgeX**	Vikram Siwach	
Ericsson	Torbjörn Keisu	Andrew Wilkinson	**Nokia**	Tapio Tallgren	
Fujitsu	Toshimichi Fukuda	Hatsumi Iino	**NTT**	Takeshi Kuwahara	
Futurewei	Chaker Al-Hakim	Jane Shen	**OSIsoft**	Daniel Lazaro	

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Project/Member	Representative	Named Alternate	Project/Member	Representative	Named Alternate
Qualcomm	Lisa Lammens		**Akraino**	Kandan Kathirvel	Tina Tsou
Radisys	Adnan Saleem	Prakash Siva	**EdgeX Foundry**	Henry Lau	
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. TAC White Paper v2 [10 minutes]
2. Vertical Solution/End User Kickoff Event(s) [10 minutes]
3. LF Expanded Mentorship Program [10 minutes]
4. Upcoming Events [5 minutes]
5. Next Meeting [5 minutes]

TAC White Paper v2

› Original publication available for download at
https://www.lfedge.org/resources/publication-download/
› Subgroup discussed updating 2x/year
› Does the TAC want to resume meeting to begin v2 of the White Paper?
› Open Discussion...

Vertical Solution/End User Kickoff Event(s)

Vertical Solution/End User Kickoff Event(s)

› Launching the LF Edge End User community
› Providing a platform for current or potential End Users of LF Edge Projects, this kick-off event will feature a keynote panel followed by a series of panel discussions featuring end users speaking on their technology needs based on their vertical market focus. The goal of these panel discussions is to educate the LF Edge community (both new and existing) to make sure we appropriately tailor the output of our project collaborations to meet end user needs. All are welcome to attend. The latest agenda can be found at https://wiki.lfedge.org/display/LE/2020+Fall+Kickoff+Virtual+Event+Series
› **CFP is Open: https://forms.gle/CBjrKq8VNj7Q2Jjq7**
› For more information, see https://lists.lfedge.org/g/TAC/message/706

LF Expanded Mentorship Program
Shuah Khan, Linux Fellow

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LF Expanded Mentorship Program

Helping developers new to open source
- experiment, learn, and contribute to open source communities
- connect with experts & employers

Programs timeline - July 2020 - June 2021

LF Mentorship Programs

Mentorship programs:
Linux Kernel, LFN/HyperLedger, CNCF, Open Mainframe, OpenHPC

2020:

Mentees

Mentors

Applied: 2817
Pending: 802
Accepted: 85
Graduated: 41

Applied: 379
Pending: 196
Approved: 183

Projects

Applied: 132
Accepted: 85
Rejected: 47
In progress: 61

LF Expanded Mentorship Program

› https://communitybridge.org/
› https://www.linuxfoundation.org/press-release/2020/04/linux-foundation-expands-mentorship-program-in-response-to-covid-19/
› Open Horizon: https://people.communitybridge.org/project/52faa755-1d30-4692-9796-e6bef09fa236
›

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

› Discussions around upcoming events occur in the LF Edge Outreach Committee
› Members may subscribe at: https://lists.lfedge.org/g/outreach-committee

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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-MmP1Rl6Vkzn3ULpiAA**

› 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_Zjdo4-5fTOSIgH7pL8iHrQ
› 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_35oZJ3hrOE69snMaiIUTPg
› 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=6JXNv3AJWog

› More to follow…

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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.

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Upcoming Project Events

› [Akraino Technical Fall Meeting](): 23 - 24, September, 2020 - Virtual
  › Agenda: https://wiki.akraino.org/pages/viewpage.action?pageId=28972052
  › Registration: https://www.cvent.com/d/p7qztk/4W?ct=50221cf5-5496-4c34-9ec0-3b52b1bf1204
  › Subscribe to https://lists.akraino.org/g/tsc for the latest information

› [EdgeX Foundry Ireland Release / Fall 2020 - Release Planning Conference - Virtual]()
  › Dates: 9 - 13, November, 2020
  › Agenda + Registration: Coming Soon
  › Subscribe to https://lists.edgexfoundry.org/g/EdgeX-TSC for the latest information

› Projects can add their events to this list by sending the Wiki page listing the information to info@lfedge.org

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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/

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Next Meeting

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Next Meeting

› Next Meeting: Wednesday, September 23 @ 7am PDT
  › Move in by a week? (overlaps with Akraino TSC F2F on 23rd; ONES on 30th)
  › Project Annual Review - TBD
    › Home Edge - October
    › Baetyl - ?
    › EVE - ?
    › State of the Edge - ?
  › 2021 TAC Priorities

Thank You

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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

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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)

Pushed to Next Meeting