

A network diagram background consisting of numerous blue lines connecting yellow circular nodes, creating a complex web of connections. The nodes and lines are scattered across the dark blue background, with a higher density of connections on the right side.

LF Edge TAC Technical Advisory Council

5 May 2021

 THE **LINUX** FOUNDATION

 **LF** EDGE

Meeting Details

- › May 5, 2021 (@ 7:00am PDT)
- › Meeting Info:
 - › Meeting URL: <https://zoom.us/j/94796108342?pwd=VjlaMTBxcXFOQ3pVcU85NTJvWkxaZz09>
 - › Calendar Subscription: <https://lists.lfedge.org/g/TAC/calendar>

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LF Edge TAC

Project/Member	Representative	Named Alternate	Project/Member	Representative	Named Alternate
Altran	Shamik Mishra	Nilanjan Samajdar	HP Inc.	Henry Lau	
Arm	Reed Hinkel	Tina Tsou	Huawei	JianGuo Zeng	Gabriel Yuyang
AT&T	Kaustubh Joshi (KJ)		IBM	Joseph Pearson	Ryan Anderson
Baidu	Leding Li		Intel	Jim St. Leger (TAC Chair)	Sharad Mishra
Charter	Jeffrey Saelens	Mohammad Zebetian	Nokia	Tapio Tallgren	
Dell	David Lake	Trevor Conn	NTT	Takeshi Kuwahara	
Dianomic	Mark Riddoch	Tom Arthur	OSIsoft	Daniel Lazaro	
Equinix	Justin Dustzadeh		Radisys	Adnan Saleem	Prakash Siva
Ericsson	Torbjörn Keisu	Andrew Wilkinson	Red Hat	Anil Vishnoi	Thomas Nadeau
Fujitsu	Toshimichi Fukuda	Hatsumi Iino	Samsung	MyeongGi Jeong	Chi-Hyun Cho
Futurewei	Chaker Al-Hakim	Deepak Vij	Tencent	Yachen Wang	Wei Chen

LF Edge TAC

Project/Member	Representative	Named Alternate	Project/Member	Representative	Named Alternate
Western Digital	Jorge Campello De Souza		Akraino	Tina Tsou	Oleg Berzin
Wipro	Subhas Mondal		EdgeX Foundry	Henry Lau	
ZEDEDA	Erik Nordmark	Roman Shaposhnik			

Topics

1. TAC Chair elections - Update (5 minutes)
2. Project Proposal - Subgroup Readout: Kuiper (20 minutes)
3. Global Open Source Technology Conference - CFP Opportunity
4. Upcoming Events / Next Meeting

TAC Chair elections - Update

Brett Preston

TAC Chair elections - Update

- › Jim St. Leger reelected for another term

Project Proposal - Subgroup Readout: Kuiper

Proposal: Kuiper

- › Proposal: <https://wiki.lfedge.org/display/LE/Kuiper>
- › Timeline/Next Steps ([Process](#)):
 - › Thursday, April 8, 2020: Proposal [emailed to TAC](#)
 - › Wednesday, April 21: TAC Presentation ([Meeting Recording](#), [Slides](#))
 - › --2 Week Review Period (ending Wednesday, May 5)
 - › Friday, April 30: TAC Subgroup Review - [Notes](#) / [Recording](#)
 - › **Today** - TAC Subgroup Readout / Vote initiated over email (if motion/second are raised)
 - › Acceptance criteria for Stage 1: Receive a two-thirds vote of all TAC representatives that do not abstain the vote and a majority vote of the Governing Board's Strategic Planning Committee to enter into the At Large Stage.

Kuiper: Stage 1 Proposal - TAC Subgroup Readout (1 of 2)

Recommendation to **Approve** Kuiper at Stage 1

The TAC Project Review Subgroup for Kuiper recently met (April 30, 2021) to review the request of the Kuiper project to enter Stage 1, At Large Projects within LF Edge.

As a matter of formality, the subgroup believes that the project meets the expectations of the TAC for Stage 1 projects as set forth in the [Project Lifecycle Document](#). Therefore, the subgroup recommends that the decision for accepting at Stage 1 should be approved per guidelines on the next page. Considerations for this decision included:

Positives

- › Per PLD Stage 1 requirements, Kuiper has 2 TAC sponsors (Leding Li and Jiangua Zeng), and is distributed under Apache 2
- › Fulfills a real need for stream data processing and transformation at the edge
- › Active engagement and collaboration with other LF Edge projects (EdgeX Foundry, Baetyl)
 - › Kuiper has been working closely with the EdgeX Project for over a year and has clearly demonstrated edge applicability and importance
 - › Kuiper is the reference implementation “rules engine” or analytics capability as of the Geneva release of EdgeX Foundry
- › As a mature software project, Kuiper already follows a number of industry best practices and coding standards.
 - › Examples include: frequent release/agile processes, unit and function testing, automated CI/CD, semantic versioning, conventional commits, etc.
- › Kuiper has a number of adopting organizations and partnerships with companies like Thundersoft and Jiangxing Intelligence in addition to their association to open source projects.
- › Kuiper already has good [user/adopter documentation](#) in both English and Chinese

Kuiper: Stage 1 Proposal - TAC Subgroup Readout (2 of 2)

Areas of Concern

- › Integration with EdgeX Foundry has required Kuiper to take on a [dependency](#) with some of EdgeX's externally facing modules. This has the potential to couple Kuiper with EdgeX's release cycle in the case of a breaking change (such as V2).
 - › Recommend support for schema-based validation on incoming messages to de-couple from upstream projects for this and future integrations
- › Structure of project Github repository needs to be restructured using Go "best practices" and recommendations
 - › An [issue](#) has been created for this but it's nearing 1 year since creation
- › Much of the code base lacks standard copyright headers. If a standard copyright practice or policy for the project exists, it was not found in the proposal documentation set.
 - › Recommend establishment of copyright policy and header template for use in all source.
 - › Example: <https://wiki.edgexfoundry.org/display/FA/Contributor%27s+Guide#Contributor'sGuide-SubmissionLicenseandCopyrights>
 - › Recommend establishment of a Wiki or other shared document site to address contributor guidance/policies in general (current [Wiki](#) page site is empty but might be a good place to provide contributor guidance as well as code of conduct).
- › To date, Kuiper automated CI/CD processes do not include any type of security or vulnerability code scans and static analysis.
 - › Recommend exploration and adoption of [Snyk](#), [CodeQL](#), or other similar analysis tools into the CI/CD process to automate scan of the code for issues. EdgeX and other LF projects can be leveraged to provide experienced guidance and implementation details if needed.
- › To date, Kuiper TSC and leadership is entirely made from EMQ X. Most code contributions come from EMQ X
 - › Elevation to Stage 2 and 3 will require more diversity of input and contributions

On behalf of the of the Kuiper subgroup, we strongly recommend the TAC vote to *APPROVE* the decision to accept Kuiper as a Stage 1 LF Edge Project.

Global Open Source Technology Conference - CFP Opportunity

 THE **LINUX** FOUNDATION
 **LF** EDGE

Global OpenSource Technology Conference (GOTC), a two days event organized by OpenSource China and the Linux Foundation APAC, will be held in parallel in Shanghai and Shenzhen. The GOTC will feature industry exhibitions, keynotes, collaborative sessions and breakthrough forums, and attendees will be able to discuss the latest and hottest open source projects, gain greater business opportunities from open source technologies, and join the open source community for global industry updates.



Time of the event

2021.07.09-10



Venue

**Shanghai
Shenzhen**



Scale

**Onsite: 3000
Live online: Millions**

Theme of the Conference :

Promote opensource culture and technology, build opensource ecosystem

Conference Slogan:

Open Source, Open World

About the Confernece:

The conference will bring leaders of enterprise and top opensource projects together, covering various hot technology fields such as Cloud Native, AI, Edge, Blockchain, Opensource governance, etc. During the 2-day period, the conference will bring the world's latest opensource technologies to developers, while sharing opensource culture and philosophy and promoting the development and construction of opensource ecology.

Schedule :

DAY1 AM Keynotes

PM Sub-Forums

Full Day Exhibition

DAY2 Full Day Sub-Forums

Full Day Exhibition

10+
Supporting
Organizations



100+
Enterprises
invited

Huawei,
Tencent, Baidu,
Alibaba, Byte
Dance, DiDi,
Jingdong, China
Mobile, ZTE,
Oppo, Intel,
VMWare and
Many more...

300+
Opensource
Projects



3000+
Developers onsite



 InfoQ 掘金 segmentfault 开发者头条 36Kr IT大咖说 3W企服 CSDN
不止于代码 活动行 Golang
语·言·范·区 51CTO.com
技术成就梦想 ZAKER
传递价值资讯 高效运维社区
GreatOPS Community 珠三角技术沙龙
http://tencentparty.org 推酷 dbaplus 运维世界
Ops World msup
To be better 慕课网
imooc.com IT168
www.it168.com HTML5
DREAMWORKS 养码场
YANGMACHANG 秒资讯 DockOne.io
Community of Docker Ceph 中国社区 云技术 deepin China 中国计算机报 docker.cn eNet
eNet.com.cn Geekbang
极客邦科技 大象互联网圈 腾讯大讲堂
DJT.QQ.COM

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Global Open Source Technology Conference - CFP Opportunity

- › 9-10 July, 2021 - Shenzhen/Shanghai
- › <https://gotc.oschina.net/en>
- › Arpit and other LF execs will be keynoting.
- › Great opp to get in front of a broad audience and share insights on our projects as well as cross-project integration points.
- › [Link to CFP](#) (deadline 15 May)

Upcoming Events

Upcoming External Events

- › [Kubernetes on Edge Day](#): 4 May, 2021 - Virtual
- › [Think 2021](#): 11-12 May, 2021 - Virtual ([ORRA](#) presentation)
- › [Open Source Summit Europe](#) / [Embedded Linux Conference](#): **27-30 September, 2021 - Seattle, WA** (and Virtual)
 - › [CFP](#) Deadline: 13 June, 2021
- › [OSPOCon](#): **27-29 September, 2021 - Seattle, WA** (and Virtual)
 - › [CFP](#) Deadline: 13 June, 2021
- › [The Global Open Source Technology Conference \(GOTC\)](#): 9-10 July, 2021 - Shenzhen/Shanghai
 - › [CFP](#) Deadline: 15 May, 2021
- › [IoT Solutions World Congress](#): 5-7 October, 2021 - Barcelona, Spain
 - › [CFP](#) closed (notifications in June)
 - › [Call for Testbeds](#) is open (closes 20 May)
- › [Open Networking & Edge Summit North America](#): 11-12 October, 2021 - Los Angeles, CA + Virtual
 - › [CFP](#) Deadline: 20 June 2021
- › [KubeCon + CloudNativeCon North America](#): 12-15 October, 2021 - Los Angeles, CA + Virtual
 - › [CFP](#) is open (closes 23 May)

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

LF Live: Mentorship Series + LFX Webinar Series

- › [An Introduction to Linux Tracing and its Concepts](#): 6 May, 2021
 - › [Optimized Continuous Delivery Pipelines](#): 11 May, 2021
 - › [High Performance Tracing in Production](#): 12 May, 2021
 - › [Building and Maintaining Your Own Secure Container OS](#): 13 May, 2021
 - › [Your Cloud Will Never Run Out Of Resources – Resource And Cost Management Techniques And Introduction To FinOps](#): 25 May, 2021
-
- › Join the LF Live: Mentorship Series mailing list and be alerted when new sessions are added!
 - › Sign up available at the bottom of <https://events.linuxfoundation.org/lf-live-mentorship-series/>
 - › Full list of LF Webinars (upcoming/recorded) available at <https://linuxfoundation.org/webinars/>

Next Meeting

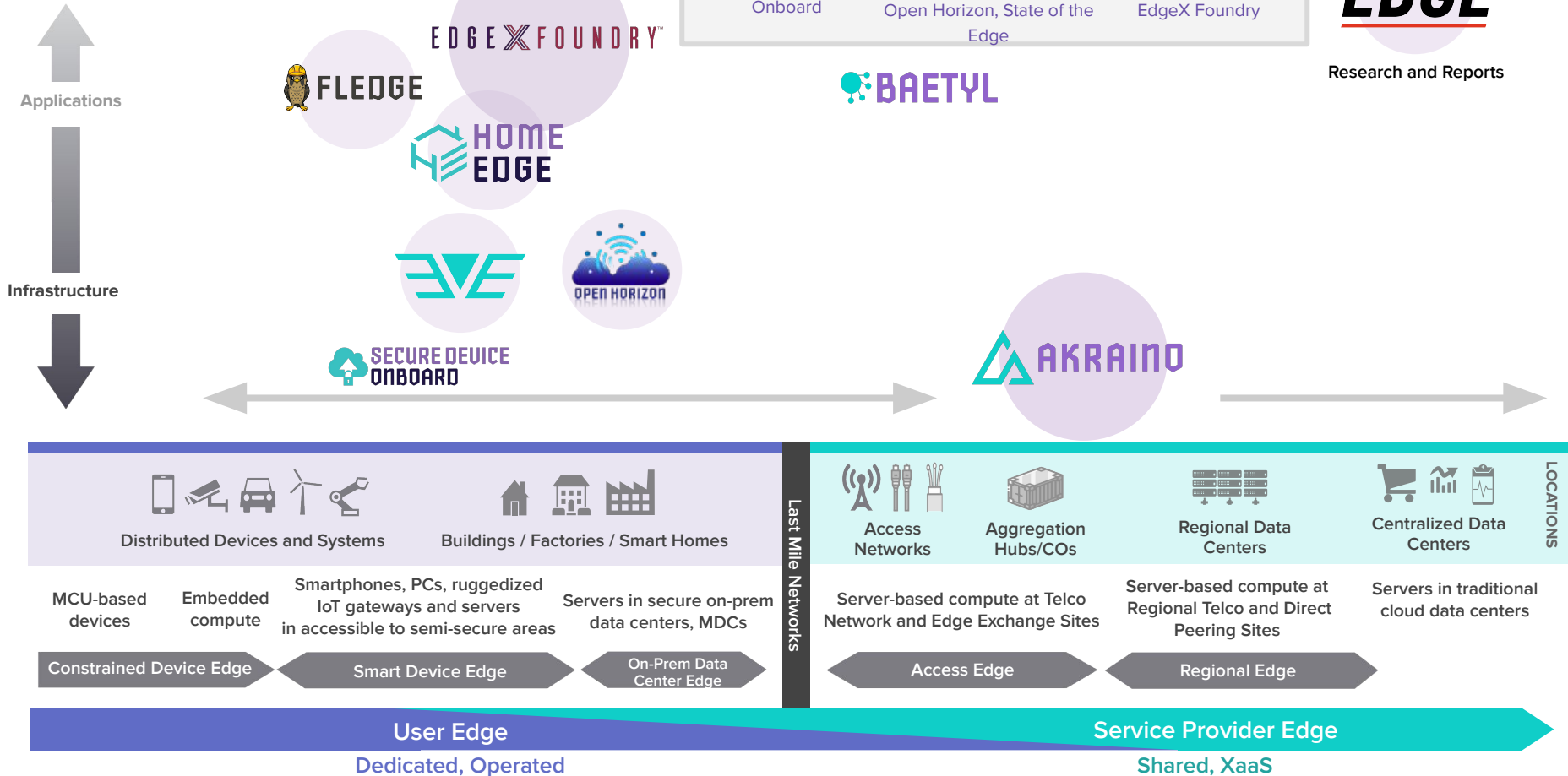
Next Meeting

- › Next Meeting: Wednesday, May 19 @ 7am PT
 - › Topics
 - › API Mapping / MindManager tooling demo (*if ready*)
 - › Future Topics
 - › EdgeX Ireland Release (June 30 +)
 - › EdgeX Ready
 - › Open Retail Reference Architecture (June+)

Thank You

Backup/Resources

LF Edge Projects



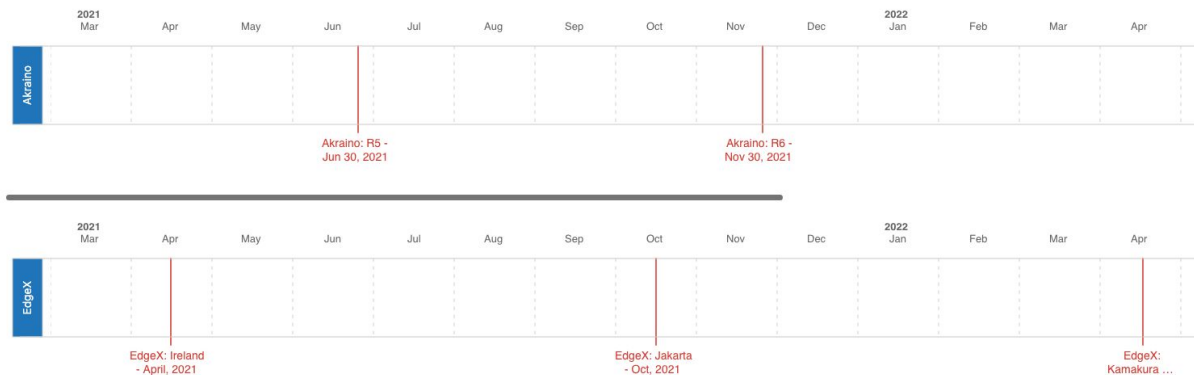
Upcoming Release Calendar

- › Reminder to Projects to please review and update as needed
- › <https://wiki.lfedge.org/display/LE/Upcoming+Release+Calendar>

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/ff-edge/eve/releases> > waterfall release model
- Fledge - <https://github.com/ff-edge/ff-edge-iot/ffedge/releases>
- Home Edge - <https://wiki.lfedge.org/display/HOME/Roadmap+and+Release+Notes>
- Open Horizon - <https://github.com/open-horizon/anax/releases>
- Secure Device Onboard - <https://github.com/secure-device-onboard/release/releases>
- State of the Edge - <https://github.com/ff-edge/glossary/blob/master/edge-glossary.md>



CII Best Practices Badge

- › Identifies a set of best practices for OSS projects, focusing on security
- › Provides a mechanism for projects to self-certify that they meet these criteria
 - › Automation helps & prevents some false answers
- › Full presentation here:
 - › <https://github.com/coreinfrastructure/best-practices-badge/blob/master/doc/cii-bp-badge-intro.pptx>
- › Website where projects can receive a badge here:
 - › <https://bestpractices.coreinfrastructure.org>
- › EdgeX Foundry, Home Edge and Open Horizon badging already in progress!
 - › <https://bestpractices.coreinfrastructure.org/en/projects/1226>
 - › <https://bestpractices.coreinfrastructure.org/en/projects/4336>
 - › <https://bestpractices.coreinfrastructure.org/en/projects/4300>
- › LF Edge Wiki tracks badge progress here: <https://wiki.lfedge.org/>
- › Proposal: All LF Edge projects be encouraged to get a CII Best Practices badge

TAC - Focus Areas for 2020 (what to emphasize / de-emphasize in 2021?)

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 - Focus Areas for 2021: Continued Discussion

- › One idea raised was for deeper (technical) solution briefs around Use Cases and Deployments
 - › Would require commitment (volunteers) from the TAC, Projects, as well as the SPC
- › (from prior discussion) White Papers
 - › LF Edge level or Project level?
 - › General (2020 introduced taxonomy/Projects) or Specific? (e.g. Security, Telemetry)
 - › Who would be the audience?
 - › Post publishing, vehicle for feedback? Success metrics?
- › Other initiatives?
 - › Open Edge Services Catalog - creation and cross-project support
 - › Common way to document APIs for all the projects

LF Edge Webinar Series - 2020 Recordings

- › Akraino Edge Stack
 - › Held Thursday, April 2 - [Your Path to Edge Computing with Akraino Edge Stack](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/WN_Zjdo4-5fTOSlqH7pL8iHrO
- › EdgeX Foundry
 - › Held Thursday, April 23 - [EdgeX Foundry 101: Intro, Roadmap and Use Cases](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/4515850788014/WN_xCd6YPjEOrcwLiFhBWPkug
- › Project EVE
 - › Held Friday, May 29 - [Building the “Android of the IoT Edge”](#)
 - › 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, OSIssoft, FLIR and Dianomic use Fledge to implement Industrial 4.0](#)
 - › Recording available at: <https://www.youtube.com/watch?v=6lXNv3AIWog>
- › State of the Edge
 - › Held Thursday, September 17 - [State of the Edge: Exploring the Intersection of IoT, AI, 5G and Edge Computing](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/8115959695936/WN_4rt-MmP1RI6Vkn3ULpiAA
- › Home Edge
 - › Held Thursday, October 15 - [Home Edge: How Your Home Devices Get Deployed in An Edge Computing Services Ecosystem](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/WN_uSlgb-R5O4etkDhxoSXISO
- › Open Horizon
 - › Held Thursday, November 19 - [Secure Application Management for Machine Learning & Constrained Devices](#)
 - › On-demand recording available at: https://zoom.us/webinar/register/WN_tYli1lZ1RWq1pml8FuPRPw

- › More to follow...

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/>
- › Full list of courses available at <https://training.linuxfoundation.org/>

Upcoming Project Events

› TBA

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

Pushed to Next Meeting