

EDGE X FOUNDRY™

TSC Meeting

May 20, 2020



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Meeting Logistics

Time: Wednesdays 8am PDT – 9am PDT

Join from PC, Mac, Linux, iOS or Android: <https://zoom.us/j/983155298>

Or iPhone one-tap (US Toll): +14086380968,983155298# or +16465588656,983155298#

Or Telephone:

Dial: +1 408 638 0968 (US Toll) or +1 646 558 8656 (US Toll)

+1 855 880 1246 (US Toll Free)

+1 877 369 0926 (US Toll Free)

Meeting ID: 983 155 298

International numbers available: <https://zoom.us/join?j=983155298>

** TSC calls are recorded and added to Wiki post-call



TSC – Members Present Today

<u>Company</u>	<u>Name</u>	<u>Email</u>
Intel	Camilo Dennis	camilo.a.dennis@intel.com
IOTech	Iain Anderson	iain@iotechsys.com
Intel	James Gregg	james.r.gregg@intel.com
IBM	Joe Pearson	joe.pearson@us.ibm.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
VMware	Malini Bhandaru	mbhandaru@vmware.com
Intel	Mike Johanson	michael.johanson@intel.com
IOTech	Robin Chattergee	robin@iotechsys.com
Beechwoods	Rodney Hess	rodney@beechwoods.com
RSA	Tingyu Zeng	tingyu.zeng@rsa.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com
Dell	Michael Estrin	m.estrin@dell.com

Current quorum = 7 members

Note: Quorum for TSC meetings requires at least fifty percent of all voting members of the TSC to be present. The TSC may continue to meet if quorum is not met, but will be prevented from making any decisions at the meeting. Except as provided in Section 7.c. and 8.a, decisions by vote at a meeting require a majority vote of those in attendance, provided quorum is met. Decisions made by electronic vote without a meeting require a majority vote of all voting members of the TSC.

Today's Agenda

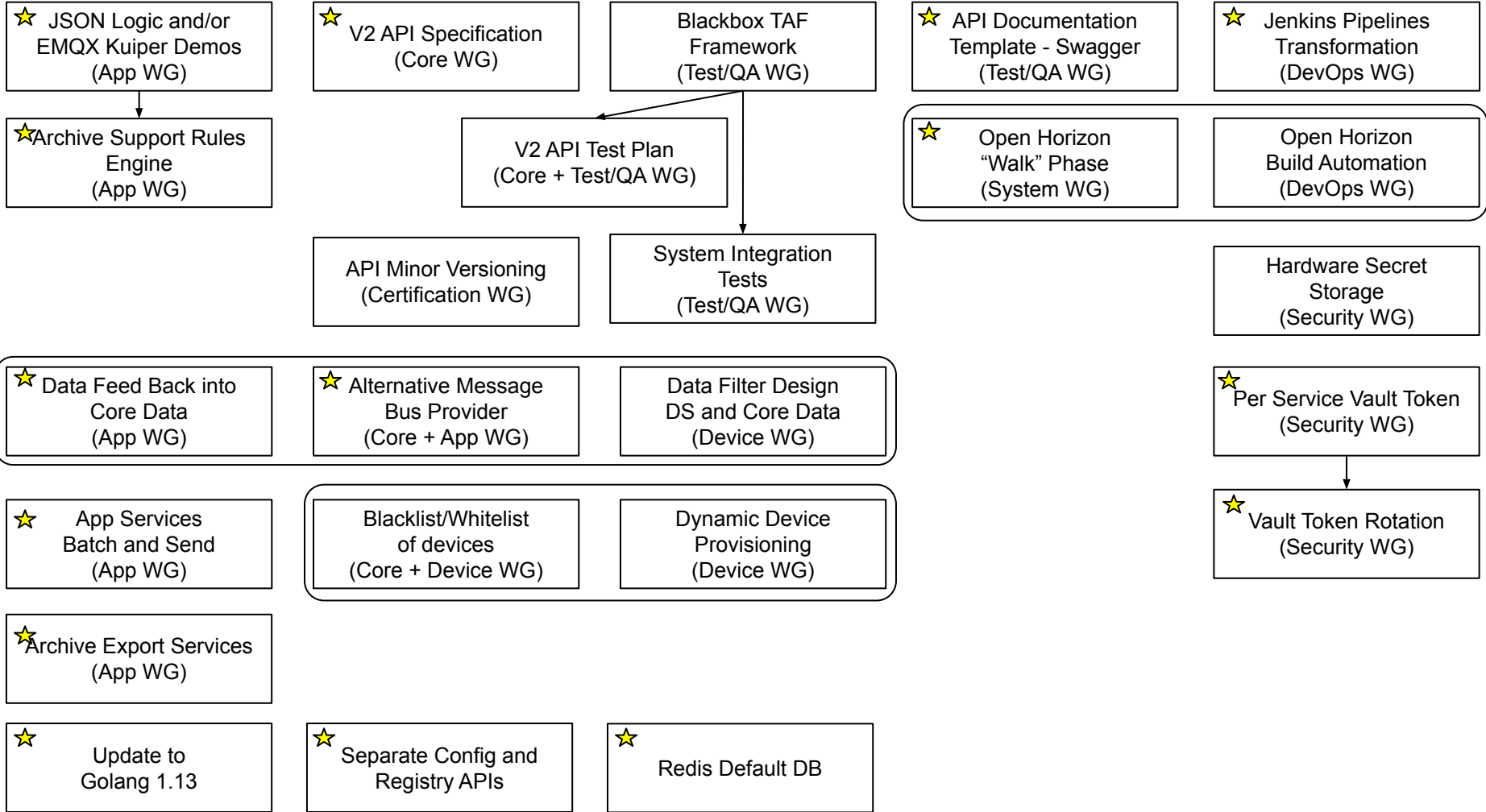
- Geneva Release
 - UI Issue resolution
 - Compose file fixes
 - Device Services release
 - Post-release issues/changes
 - Documentation clean up
- WG Updates
- EdgeX Org 2.0 update
- Upcoming Events (Dev Advocate)



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Geneva Release & Release Czar readout

EdgeX Geneva Release Overview

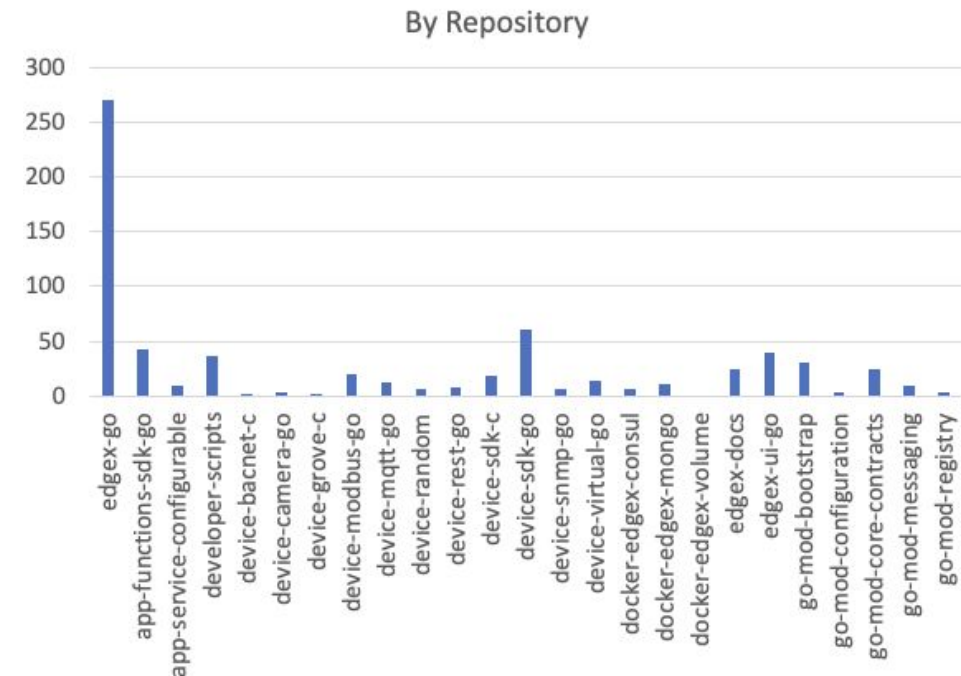
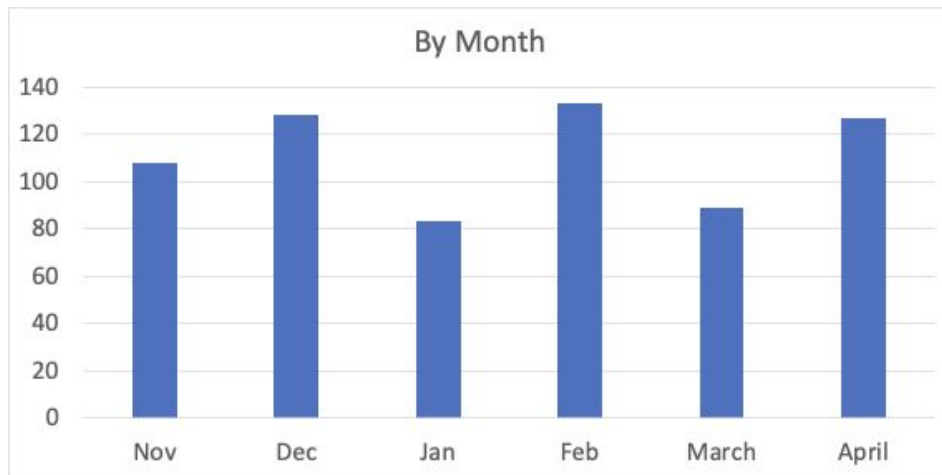


Release Overview

Release Artifact Status

- Docker Images are staged in Nexus for release
- Snap channels are created for Geneva

Closed Issues - 668 Overall



Geneva Release

- UI Issue & resolution
- Compose file fixes (thank Lenny)
- Device Services release
 - BACnet-C, Bluetooth-C, OPC-UA-C, ...
- Other post-release issues/changes
- Documentation clean up



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Work Group Updates

Chairs

Working Group Chair Updates

- Around the horn
 - Core/Supporting - Trevor Conn
 - Applications - Mike Johanson
 - Device Services - Iain Anderson
 - Test/QA - Robin Chatterjee
 - DevOps - James Gregg
 - Security - Malini Bhandaru and Tingyu Zeng
 - System Management - Michael Estrin
 - Open Horizon - Joe Pearson
 - Certification - Rodney Hess
 - Vertical Solutions - Camilo Dennis and Henry Lau
 - Updates from Release Czar - Lisa
 - Updates from Dev Advocate - Aaron

Core Working Group (20-May-2020)

- Initial review comments on go-mod-core-contracts PR 236
 - <https://github.com/edgexfoundry/go-mod-core-contracts/pull/236>
 - Event/reading DTOs for V2 API
- edgex-go PR #2552 pending completion
 - Removal of scheduler-interval
 - Pre-dates Hanoi release
- Core WG call @ 10AM US/Central tomorrow
 - Call for agenda items.

Applications WG Update (20-May-2020)

Work In Progress:

- Documentation update for edgex-docs
- Hanoi Planning Items
 - Categorized/Labeled/Prioritized Github Board

- App Working Group Meeting held on Fridays @ 9AM PDT
 - Cancelled For May 22nd (Intel Wellness Day)
 - Next meeting May 29th, 2020

Application Services

Functions (built into SDK)

Current/Complete:

- AES Encryption
- GZIP Compression
- ZLIB Compression
- MarkAsPushed
- PushToCore
- Device Name Filter
- Value Descriptor Filter
- Batch
- JSONLogic Filtering
- XML Conversion
- JSON Conversion
- MQTT(S) Export
- HTTP(S) POST Export

NEW!

NEW!

Features

- Store and Forward
- Web Server
- Configurable App Service
- Vault Integration for Secrets
- MQTT Event triggers (via go-mod-messaging)

NEW!

NEW!

Reference/Example App Services (Geneva)

(built on top of SDK)

- Azure IoT Hub
- Amazon IoT Core
- IBM Watson IoT
- Cloud Event Transformation
- Secret Retrieval Example

AVAILABLE

AVAILABLE

NEW!

Device Services WG Update (20-May-20)

No update this week

Next WG meeting Monday 1st June

Device Services - current/coming (as of 5/7/20)

Open Source connectors (Current):

- Modbus (TCP/RTU) in Go
- Virtual Device in Go
- SNMP in Go
- MQTT in Go
- BACnet (IP & MSTP) in Go
- ONVIF Cameras in Go
- REST in Go (NEW!)

Open Source connectors (Future):

- Bluetooth in C (summer 2020)
- BACnet (IP & MSTP) in C (summer 2020)
- OPC-UA in C (summer 2020)
- Grove C (summer 2020)

Commercial connectors (Current):

- File Exporter in C
- BLE in C
- Zigbee in C
- GPS in C
- CAN in C
- MEMS in C
- EtherCat in C
- Profinet in C

There are additional commercial MQTT (Go), Modbus (Go), OPC-UA (in C) and BACnet (in C) that have added features over the community editions

Commercial connectors (Future):

- EtherNet/IP in C (summer 2020)
- CanOpen in C (summer 2020)
- OPC-UA Pub/Sub in C (summer 2020)
- ONVIF in C (summer 2020)

Test/QA WG Update (20-05-2020)

- Blackbox Test
 - Fixed issues
 - Issue [edgex-go#2543](#), [Mongo][Security] support-notification: 502 bad gateway
 - Issue [edgex-go#2553](#), Post event with binary value returns "reading has no value"
 - Issue [#449](#), to remove support-logging startup and test scripts.
- TAF
 - PR [ci-build-images#129](#), to reduce the size of compose image is waiting for merging.
 - Integration/functional test scenarios ([Introduce slide](#))
 - PR edgex-taf [#56](#) to add robot files are ready for review
 - Fixed issues
 - PR [edgex-taf#93](#), to remove support-logging startup.
 - Issue [edgex-taf#91](#), to update app service configurable.
- Summary - all major issues resolved and scoreboards pretty much clean - only "response time" failures which can happen intermittently due to server loading

Postman Blackbox Test Cases

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Mongo	1312	0	0	0
		Redis	1312	0	0	0
x86_64 / CentOS	Security	Mongo	1342	0	1	0
		Redis	1342	0	2	0
arm64 / Ubuntu	Non Security	Mongo	1312	0	2	0
		Redis	1312	0	7	0
arm64 / Ubuntu	Security	Mongo	1342	0	23	0
		Redis	1342	0	20	0

TAF Functional Blackbox Test Cases

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Mongo	52	0	0	0
		Redis	52	0	0	0
x86_64 / CentOS	Security	Mongo	52	0	0	0
		Redis	52	0	0	0
arm64 / Ubuntu	Non Security	Mongo	52	0	0	0
		Redis	52	0	0	0
arm64 / Ubuntu	Security	Mongo	52	0	0	0
		Redis	52	0	0	0

TAF Integration Test Cases

Integration tests

OS		DB	Total TCs No.	Failed TCs No. of Past Week	Failed TCs No. of This Week	Fixed TCs No.
x86_64 / CentOS	Non Security	Mongo	4	0	0	0
		Redis	4	0	0	0
x86_64 / CentOS	Security	Mongo	4	0	0	0
		Redis	4	0	0	0
arm64 / Ubuntu	Non Security	Mongo	4	0	0	0
		Redis	4	0	0	0
arm64 / Ubuntu	Security	Mongo	4	0	0	0
		Redis	4	0	0	0

Compatibility tests

x86_64 / CentOS	Non Security	Mongo	12	0	0	0
		Redis	12	0	0	0

DevOps WG Update (05-20-2020)

Hanoi

- **Performance Optimizations**
 - Build Optimizations for edgex-go
 - Explore completed and demo'd by Ernesto Ojeda with observable performance improvements in the build time - WIP
- **DevSecOps**
 - Continued explore of options for addressing Issue #1947 - vetting of OSS dependencies
 - Community Bridge Feature Requests
 - Transitive dependencies for Go modules - findings don't match other tools like Sonatype
- **Other**
 - LFTools / Sigul latest version that supports Python 3.x
 - Need input from LF on alternative signing tool

Next DevOps WG Meeting 05/21/2020 @9:00AM PST

System Management WG Update (May 20, 2020)

- Meeting this past week (May 15th); nothing to discuss
- Next meeting: Friday, May 22nd @ 10AM CST
 - “Better facilitating Kubernetes deployment/orchestration of EdgeX”

Open Horizon Integration Update (5/20/20)

- Nothing new since previous week
- Meetings will resume May 11th



Security WG Update (05-20-2020)

- Hanoi release working items in progress/review
- SIR team update - No major issues found
- Parsec integration - waiting for response from Arm
- Security WG meeting
 - ADR-132 & ADR-133
 - EOL for docker-edgex-mongo & docker-edgex-volume

Certification WG Update (5-18-20)

- Gathering requirements for device profile validation
- Investigating a template for launching an EdgeX instance in a cloud
- Reviewing [PR-139](#) in EdgeX-docs
- Next meeting is Monday, June 1st, 9 a.m. PDT

Vertical Solutions WG Update (May 20, 2020)

- Last meeting: May 12, 2020, 10am PST
 - Conexxus - Convenience stores technology standards, use cases, and opportunities for EdgeX
- Next meeting: May 26, 2020, 10am PST
 - RFRain - RFID reader manufacturer

Marketing update (5/6/20)

- Continue to drive Website project with El Roboto (3rd party)
 - Folder with key documents milestones and information at the Marketing WG wiki <https://wiki.edgexfoundry.org/display/FA/Marketing+WG>
- Topcoder challenge closed
 - <https://www.topcoder.com/challenges/3011>
 - 130 participants and a total of 28 submission
- Starting asset creation and planning for Geneva Release
 - PR
 -

EdgeX 2.0 (Jim)

- EdgeX 2.0 Org proposal
 - Doc on the [Wiki](#) and on Slack (on TSC channel)
 - Are we ok with Trevor's Prod Manager role?
 - Status of Outreach Committee org
 - Need date/time for separate meeting
 - Can we agree to hold off on adopting this part of the proposal
 - Ready for a vote on the TSC portion
 - Any final comments/concerns

Trevor's Product Manager proposal

- . Has knowledge of the overall architecture of the EdgeX platform and how the components interact
- . Has basic knowledge of how software is implemented, perhaps previous experience as a dev, in order to follow technical concepts
- . Participates in release planning F2F, helping to refine future scope and identifying interlocks early
- . Works with each working group lead to define a broad release roadmap that will give visibility to sequence of major deliverables leading up to release
 - In this way we can easily see if a group is lagging behind the pace needed to complete deliverables for release
- . Has knowledge of EdgeX Kanban board and how issues are associated via labels. Also knowledge of release milestones in Github. The PM should be willing to help new WG leads ramp up on mgmt. practices.
- . Suggest PM conduct a Kanban review with each WG lead no less frequently than bi-weekly to ensure issues are being tracked appropriately.
- . PM should attend the various working group meetings as needed to ensure delivery remains on track.
 - This is particularly key when feature interlocks are being designed and when nearing completion
- . PM should report out to the TSC on an as-needed basis w/r/t feature completion status, blockers, dependencies
- . Optionally, PM has some visibility and relationship with community members engaged in real-world use cases or product/support as a voice to help qualify whether a technical feature makes business sense.

Miscellaneous (Jim)

- We are holding a survey to get feedback from the community and beyond with regard to our command line interface tool (CLI).
 - Please take a couple of minutes to fill it out when you receive the link
 - <https://www.surveymonkey.com/r/QWKHZZZ>
 - <https://bit.ly/EdgeXCLI>
- Upcoming Election Plan (subject to TSC approval)
 - Collection of voter registries (now to June 12)
 - Nominations for any chair or TSC at-large positions (now to June 12)
 - Send your nominations to Jim or Aaron
 - Chair and at-large elections (week of Jun 15-19)
 - TSC Chair election (week of Jun 25-29)
- Cancelling TSC next week (May 27th) - Memorial weekend and everyone needs a good long break



Upcoming Events & Dev Advocate Update

Aaron's updates

Next F2F/conferences/events

- Companies with travel restrictions to the end of year
 - Dell
 - Intel
 - HP
- Please keep us informed of your company's travel policy changes
- Decision on China or other F2F meeting for fall still pending but looking less likely
 - (i.e. don't make travel plans yet)

Upcoming External Events

Full list of LF events available at:
<https://events.linuxfoundation.org/>

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

- › **“On the Edge with LF Edge” Webinars**
 - › Project EVE Webinar (May 29 at 9 am PDT):
 - › Register for the webinar!
https://zoom.us/webinar/register/8815888722994/WN_35oZJ3hrQE69snMaiJUTPg
- › [Open Source Summit North America](#): 29 June - 2 July, 2020 - Virtual
 - › 90 minute session(s) - July 2 at 12-1:30pm CST
- › [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.”
- › [Open Source Summit Japan](#): 15-16 September, 2020 - Tokyo, Japan
 - › CFP Open: <https://events.linuxfoundation.org/open-source-summit-japan/program/cfp/>

Upcoming External Events

- › [Open Networking & Edge Summit North America](#): 28-29 September, 2020 - Los Angeles, CA
 - › [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/>
- › [IoT Solutions World Congress](#): **MOVED** 11-13 May, 2021 - Barcelona, Spain
 - › Call for Testbeds Open: <https://www.iotsworldcongress.com/activities/testbeds/>
- › [Open Networking & Edge Summit Europe](#): TBD Q4, 2020 - Antwerp, Belgium
 - › CFP Open: <https://events.linuxfoundation.org/open-networking-edge-summit-europe/program/cfp/>

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

Upcoming Project Events

- › none

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



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Thank You