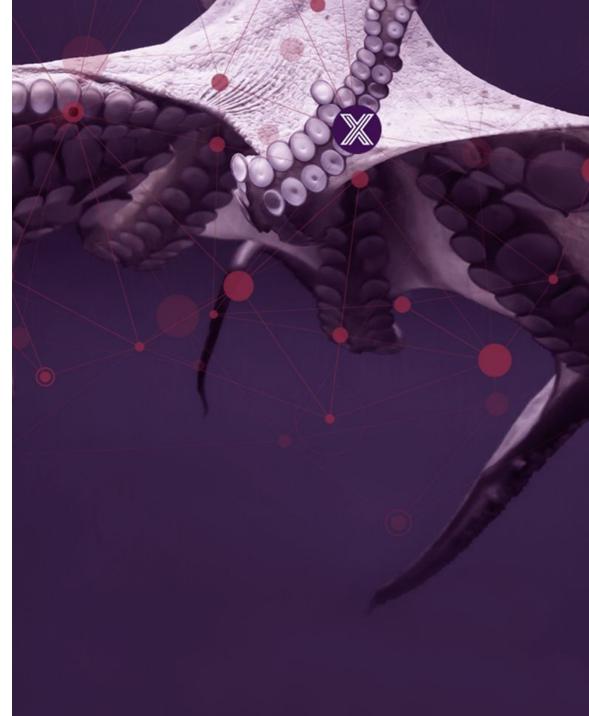


TSC Meeting

June 26, 2019



LF Antitrust Policy Notice

EdgeX Foundry meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

Examples of types of actions that are prohibited at EdgeX Foundry meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at http://www.linuxfoundation.org/antitrust-policy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.



Meeting Logistics

Time: June 26, 2019 7am PDT – 8am 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/zoomconference?m=mkFexUxEcqHlvXHw53PqScTDRvS48PiQ

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





TSC – Members Present Today

<u>Company</u>	<u>Name</u>	<u>Email</u>
Intel	Brad Corrion	bradley.w.corrion@intel.com
IOTech	lain Anderson	iain@iotechsys.com
Intel	James Gregg	james.r.gregg@intel.com
Dell	Jim White (TSC Vice Chair)	james.white2@dell.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

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.

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Today's Agenda

- Release Final
- WG Updates
- Upcoming Events
- AOB



Release Update

Release status: James, Lisa, Eric Ball, et. al

Build issues with edgex-ui-clojure (gitsemver), edgex-ui-go (conflicts with version files), device-snmp-go (credentials), mongo 4.0 (breaking on arm64)

Issues: Cloud, Lisa

Timeline for release artifacts



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 Jim
 - Certification Rodney Hess
 - Vertical Solutions Brad Corrin

Core Working Group (26-Jun-19)

- No major updates this week
- Feature work
 - Just about finished w/requirements for Value Descriptor rework
 - ProvisionWatcher discussions continue
 - How to handle a moving device??
 - Geneva deliverable
- Unit test coverage continues

Applications WG Update (26-June-19)

- CI/CD Pipeline Updated (Thanks Lisa!)
- Updated to Go 1.12
- Compression and Encryption from existing Export Services complete
- Rules Engine direct from core data doesn't handle envelope around EdgeX event. Will be updated to handle both the envelope directly from Core Data and from App Functions SDK as well as from Export Services.
- Dynamic/Configurable Function Pipeline still WIP

Device Services WG Update (26-6-19)

- Provision Watcher design
- Scoping for Fuji
- Device Profile changes
 - Mostly deferred to Geneva
 - Safe migration of confusing names in ResourceOperations
- Requirements document updates

Test/QA WG Update (26-06-19)

Blackbox Tests

Fixed issue #22 related to running mongo on arm64, waiting for PR #24 to be merged

Performance Tests

- Preparing automation script to collect data for performance summary report target to have initial data set ready by end of the week, will review latest data at tomorrow's WG meeting
- Updated latest status of JMeter data loss issue put on performance test issue #31 and asking for help on slack
- Updated document for developing performance test script. PR #36 is under review

• Fuji

- Created Test Plan template for new Device Services tests and have started drafting initial plan for review
- Started planning for rollout of new Robot test framework
- Next QA/Test meeting June 27th, 4pm PST

DevOps WG Update (06-26-19)

Edinburgh Release

- Edinburgh release WIP build issues as previously discussed will be focus for resolution
 - late requests for cutting branches for demo-grove-pi which missed code freeze
- Pre-Release Process changes were discussed in DevOps WG with verbiage submitted to the TSC for review.

Fuji Scope - Container Scanning (Clair Server landing request)

 Update as of WW23 from LF Infrastructure team indicated the solution has been approved but not resourced yet.

Potential Risk for Fuji if the landing doesn't happen.

- Update Needed from Linux Foundation on this scope of work.
- Codecov global function completed by Tyler Powers
 - Working on coordination of the GitHub configs for all remaining repos
- SPIKE completed Static Code Analysis Tools will share in upcoming DevOps WG call
- edgex-go docs migrated out, but needs a new build job created will discuss in DevOps WG call

System Management WG Update (6-26-19)

- Open Horizon discussion on going
- Fuji Focus
 - Set configuration work underway
 - Designing executor for metrics collection
 - Next items
 - Start/stop/restart all done by the executor to include stop/restart of SMA
 - Safe shutdown
 - WatchForChanges blocking function handling
 - SMA Translation layer (stretch)
- Added to roadmap
 - handling multiple key sets
 - caching



Security WG Update (6-26-19)

Welcome from Tingyu and Malini!

- Refactored secret store service completed PR pending review
- Refactored API gateway completed PR merged
- SIR team welcomes Doug Gardner <u>doug.gardner@analog.com</u>. Members: Doug, Jim, Tingyu, and Malini
- Fuji work -- plan is to release secret store code sooner than later for broader EdgeX team to use and report issues/concerns
- Hardware based secure Storage exploring dates for a face-to-face in Santa Clara /CA July 29 week.
- Security Issues created with details (Tony idea thanks) and Wiki updated. This provides a mix of static and dynamic.

Certification WG Update (6-24-19)

- Largely waiting on work from QA/Test and Device Services WGs
- Will be working with both groups & Marketing going forward.

No meeting next week; next meeting July 8th

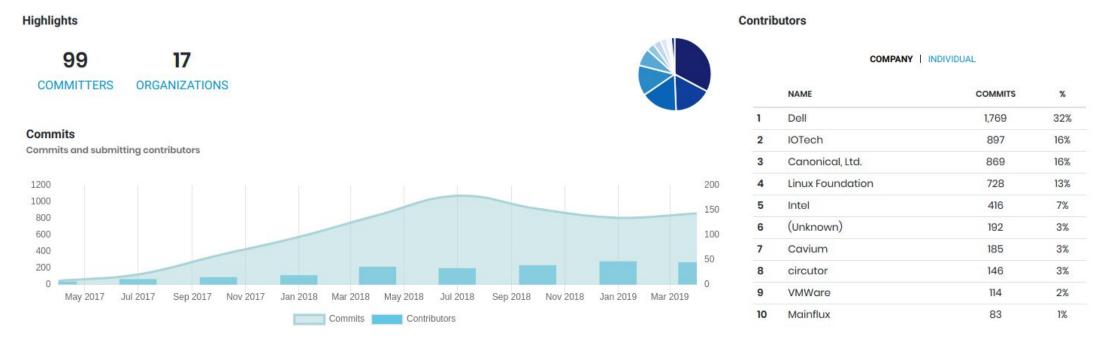
Vertical Solutions WG Update (6-25-19)

- Andy Laudato, CTO of Vitamin Shoppe, walked through his innovation plan and fielded many questions
 - Great overview about retail trends for those that would like to learn
 - Webcast is posted on the Commerce Project Wiki
- Seeking new energy and leadership for additional VS projects, starting with Industrial
 - All feedback is welcome
 - As well as leader nominees
- ORI Roadshow held in Chicago 6-24-19, soliciting ecosystem participation in Open Source and EdgeX
 - Kudos to Jason, Keith and extended teams for contributing as guest speakers



Developer Advocacy (6-26-19)

- Setup in <u>LF Dev Analytics</u> staging environment
- Migrating docs to new <u>edgex-docs</u> repository
- Started Release 1.0 <u>landing page</u> (password: EdgeX1!)





EdgeX V1 Launch

EdgeX Messaging Document

- Used to drive consistency across collateral
- https://docs.google.com/document/d/1fB-t9uAX7mA4fOUPmt4V2nZBqw26J5fjVQbi__y OUdE/edit?ts=5cf1a74a#

EdgeX V1 Marketing Sub Team Responsibilities

- EdgeX June launch project manager (KPIs, milestones, etc.) à Camilo Intel
- EdgeX budget request (June 1 Nov 30) coordinator à Camilo Intel
- EdgeX content coordinator (text, creatives, data sheets, white papers, use cases, examples, competitive analysis) Jim White, Andy Foster, Keith Steele
- EdgeX webmaster Ernesto Ojeda
- EdgeX digital market communications manager (mailing lists, emails, webcasts, etc.)
 LinuX Foundation
- EdgeX digital advertising coordinator (GoogleAds, LinkedIn, etc.) Linux Foundation

EdgeX IOT Solutions Congress Silver Sponsor

- 5 Sponsorship Opprtunities
- \$12,500 each
- 2 Secured, 1 pending
- Minimum requirement will be to demonstrate an LF Edge based project e.g EdgeX Demonstrator

- IOT World Solutions Congress
 Barcelona 29th-31st October 2019
- Pending final Budget Approval

- Silver Sponsor Package
- Congress
 - 1 parallel session speaker at the congress
 - 50 Congress Passes
 - 50% Congress discount for inviting customers
- Exhibition
 - 50 Exhibition area only passes
 - 60 70m2 Surface space Stand not included
- Networking

2 Passes to the VIP Lounge networking area 2nd level CTA in Sponsors Page for networking request

2 Lead Retrieval devices

Activities

Possibility of organizing an activity or a side event at IOTSWC19 (cocktail party, welcome reception, workshop, annual meeting, hackathon or similar) 15% Discount on meeting room rental

Customized Booth



Upcoming External Events

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

- > Open Source Summit Japan: 17-19 July, 2019 Tokyo, Japan
 - July 17: BoF Getting the Edge in Edge Computing
 - > July 19: Tiejun Chen, VMware Build Edge Computing with EdgeX Foundry over Kubernetes
 - July 19: Hyde Sugiyama, Red Hat Kubernetes Native Infrastructure and CoreOS Operator Framework for 5G Edge Cloud Computing
- > Open Source Summit / Embedded Linux Conference NA: 21-23 August, 2019 San Diego
 - LF Edge Members receive a 20% discount on registration. Email info@lfedge.org for code.
 - August 20: <u>LF Edge Mini-Summit</u> Half-day, single-track event on the topic of IoT and Edge Computing
 - August 21: Tingyu Zeng, Dell: An Agile Approach to Threat Modeling for Securing Open Source Project EdgeX Foundry
 - August 22: Malini Bhandaru, VMware & Trevor Conn, Dell IoT Action at the Edge EdgeX Foundry 1.0 Released!
 - August 23: Alexandre Courouble, VMware Easy as a pi: EdgeX on Raspberry Pi for Automotive IoT
 - August 23: Gavin Lu, VMware Open and Neutral Edge Computing Architecture on Heterogeneous Devices
- > Open Networking Summit EU: 23-25 September, 2019 Antwerp, Belgium
 - > LF Edge Members receive a 20% discount on registration. Email info@lfedge.org for code.



Upcoming External Events continued

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

- Open Source Summit EU / ELC: 28-30 October, 2019 Lyon, France
 - October 31: LF Edge Mini-Summit Half-day, single-track event on the topic of IoT and Edge Computing

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



Upcoming CFP Due Dates

- > Open Source Summit Europe: Oct. 28 30, 2019, Lyon
 - CFP Due: July 1
 - https://events.linuxfoundation.org/events/open-source-summit-europe-2019/program/cfp/
- > <u>Embedded Linux Conference</u> (Co-located w/ OSS Europe): Oct. 28 30, 2019, Lyon
 - CFP Due: July 1
 - https://events.linuxfoundation.org/events/embedded-linux-conference-europe-2019/program/cfp/
- <u>KubeCon + CloudNativeCon NA</u>: Nov. 19-21, 2019, San Diego
 - CFP Due: July 12
 - https://events.linuxfoundation.org/events/kubecon-cloudnativecon-north-america-2019/cfp/



EdgeX TSC F2F Meeting(s)

4 November - 8 November, 2019 -- Location Phoenix, Arizona (USA) -- Wiki page

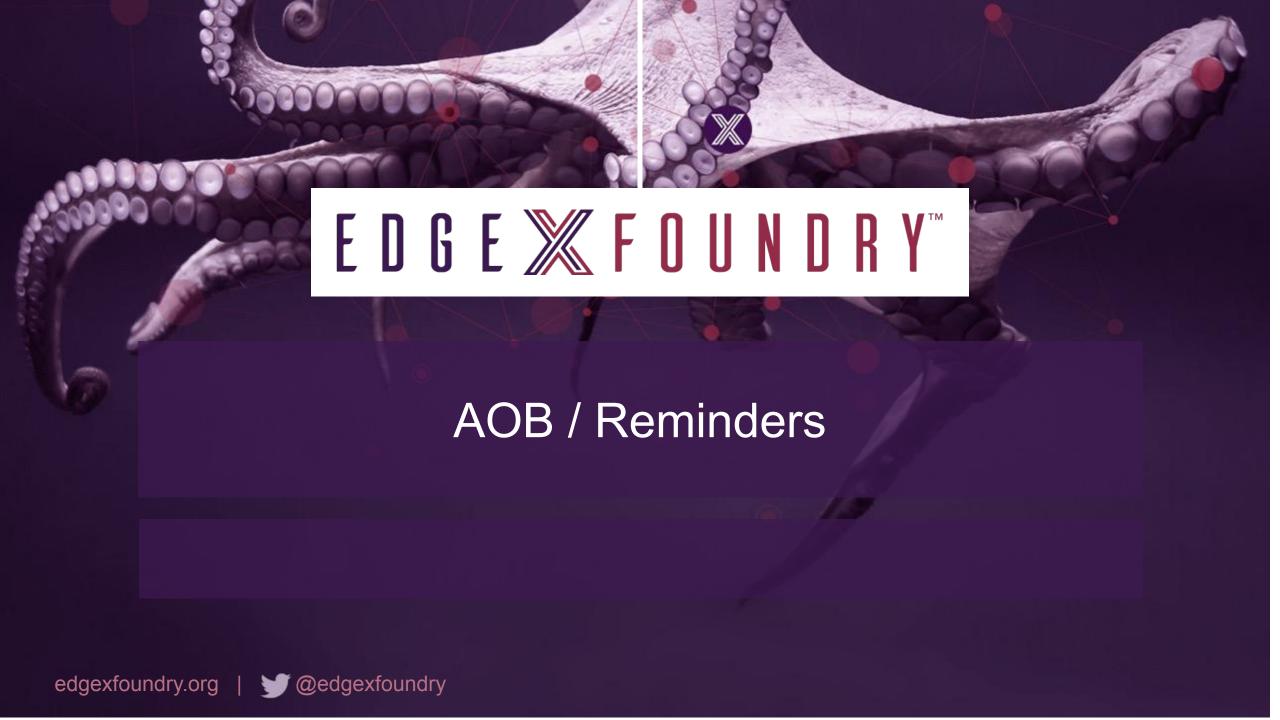
Latest agenda available on the Wiki

Venue

Galvanize – 515 E. Grant Street, Phoenix, AZ 85004

Coming Soon (before EoM June):

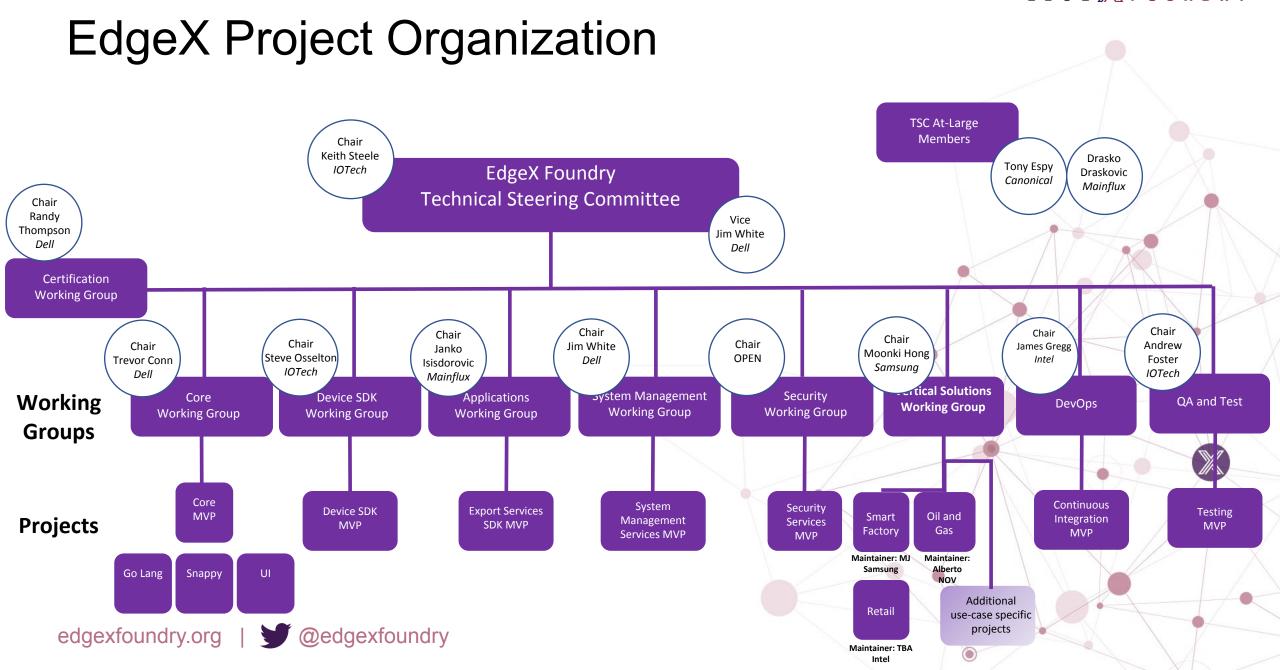
- RSVP: Links to register will be available on Wiki. Will include registration for each section.
- Hotel/Travel: Recommended hotels



AOB/Cadence

- Meeting Cadence Reminder
 - Currently held weekly at 7am PDT on Wednesday's
 - Calls without TSC quorum will still be used to review issues
- Next Meeting: June 26, 2019





Marketing

 CTA: If your company will be presenting EdgeX at an upcoming event/webinar/other, please email pr@lfedge.org so that we can help promote

EdgeX in Market

- Page showcases momentum in the project, including solutions already available
- https://www.edgexfoundry.org/edgex-in-market/
- Email <u>info@edgexfoundry.org</u> if you have any additions

Project Contributions Welcome!

- Our objective is to make EdgeX use & deployment pervasive!
- EdgeX success is 100% dependent on the vibrancy of a proactive community
- Getting Involved
 - Project membership growing want to join contact Mike Woster at LF (mwoster@linuxfoundation.org)
 - First Priority is the MVP potential contributors please contact <u>keith@iotechsys.com</u> (people, equipment, technology)
 - If interested in adding new projects please contact the relevant working group chair

Project Resources

Quick links to most commonly used Community Resources

- Code: https://github.com/edgexfoundry
- Documentation: https://wiki.edgexfoundry.org/
- Discussion: https://slack.edgexfoundry.org/
- Mail Lists: https://lists.edgexfoundry.org/mailman/listinfo
- Twitter: https://twitter.com/EdgeXFoundry
- LinkedIn: https://www.linkedin.com/company/22298339/
- YouTube: https://www.youtube.com/c/EdgeXFoundry



EdgeX - Where to learn more

EdgeX Foundry Wiki

https://wiki.edgexfoundry.org/display/FA/EdgeX+Foundry+Project+Wiki

EdgeX Foundry Slack

https://slack.edgexfoundry.org/

Weekly EXF Technical Spin up calls

30 minute deep-dive topics followed by 30 minute open Q&A Call recordings are available on the Wiki

What is the Device Exchange?

- •A great way to put your products in the hands of other members so they can help build a better EdgeX!
 - https://wiki.edgexfoundry.org/display/FA/Device+Exchange



Special thanks to <u>Dave Bohlman</u> and <u>KMC Controls</u> for making this awesome kit and how-to guide available to members!!



Meetups

- Help us grow awareness!
- Present, and Tag, EdgeX in your local IoT Meetups
- https://www.meetup.com/topics/edgex/
- Email info@edgexfoundry.org for assistance





Meetups: Reimbursement Program

- https://wiki.edgexfoundry.org/pages/viewpage.action?pageId=7602724
- Wiki page built for the community to leverage
- Encourage community to begin introducing EdgeX in your local Meetup groups
- EdgeX Foundry will fund/sponsor the talk in which EdgeX is scheduled to be presented
 - Up to \$250 for F&B, once per Meetup group, per quarter
- Let us help drive traffic to your event! Email <u>pr@lfedge.org</u> once Meetup has been scheduled
- Post-event, please consider doing a blog about the event

Hackathons: How can you help?

- https://wiki.edgexfoundry.org/display/FA/Hackathons
- Provide any local volunteers onsite to help with technical work, potentially help judge, etc. (see list below of known hackathons coming up and locations)
- Sponsor breakfast/lunch/dinner for the participants (usually things like donuts/coffee, pizza lunch or cater sandwiches)
- Sponsor \$ rewards (incentives) for teams that successfully implement projects (these could even be projects that particular sponsors want to see accomplished we just need them scoped appropriately so as to be something that can be accomplished in a 2 day period)
- Help provide or resource hackathon winner prizes
- Sponsor or provide any swag (t-shirts, mugs, etc.)
- . Provide marketing assistance



