

EDGE X FOUNDRY™

# TSC Meeting

June 19, 2019



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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 19, 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)

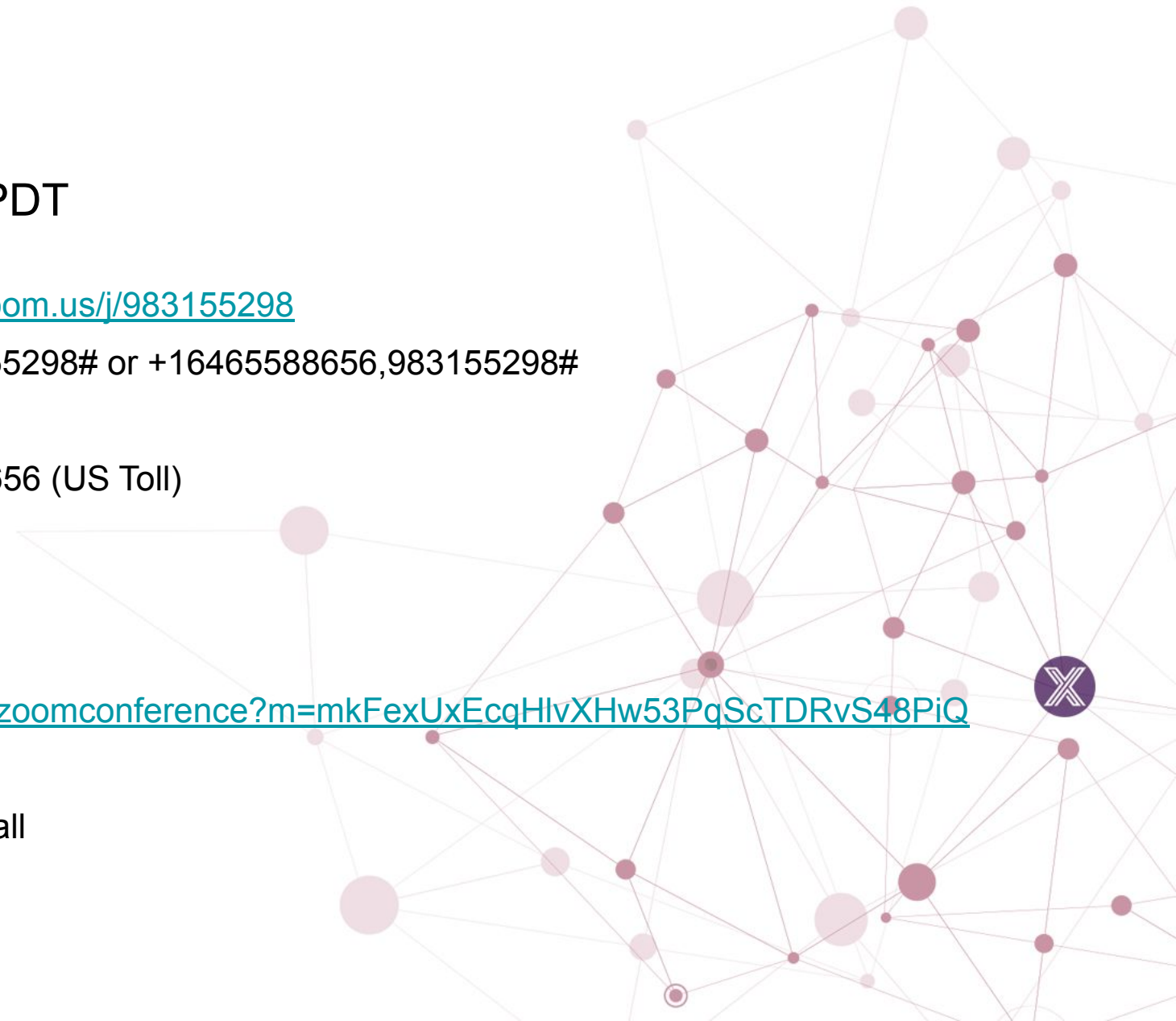
+1 855 880 1246 (US Toll Free)

+1 877 369 0926 (US Toll Free)

Meeting ID: 983 155 298

International numbers available: <https://zoom.us/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>
IOTech	Andy Foster	<a href="mailto:andy@iotechsys.com">andy@iotechsys.com</a>
Mainflux	Drasko Draskovic	<a href="mailto:drasko@mainflux.com">drasko@mainflux.com</a>
Intel	James Gregg	<a href="mailto:james.r.gregg@intel.com">james.r.gregg@intel.com</a>
Mainflux	Janko Isidorovic	<a href="mailto:janko@mainflux.com">janko@mainflux.com</a>
Dell	Jim White (TSC Vice Chair)	<a href="mailto:james.white2@dell.com">james.white2@dell.com</a>
IOTech	Keith Steele (TSC Chair)	<a href="mailto:keith@iotechsys.com">keith@iotechsys.com</a>
Samsung	Moonki Hong	<a href="mailto:moonki1.hong@samsung.com">moonki1.hong@samsung.com</a>
Dell	Randy Thompson	<a href="mailto:Randy.T@dell.com">Randy.T@dell.com</a>
IOTech	Steve Osselton	<a href="mailto:steve@iotechsys.com">steve@iotechsys.com</a>
Canonical	Tony Espy	<a href="mailto:espy@canonical.com">espy@canonical.com</a>
Dell	Trevor Conn	<a href="mailto:Trevor.Conn@dell.com">Trevor.Conn@dell.com</a>

Current quorum = 6 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

- Thanks but not Goodbye!!
- Release Final
- WG Updates
- JIRA for help
- TSC Chairs and upcoming Elections
- LF Edge Update
- Upcoming Events
- AOB



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Thanks but not Goodbye

# Thanks for their Support!!!

Andy Foster

Janko Isidorovic

Steve Osselton

Randy Thompson,

Drasko Draskovic

Moonki Hong



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# Release Planning



# Release Update

Release status: Trevor/James/Lenny et al

Branching status

Issues, comments, concerns

Status of document updates Michael Hall

Release target: June 20



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# Work Group Updates

Chairs

# Working Group Chair Updates

- Around the horn
  - Core/Supporting - Trevor
  - Applications - Janko (Mike Johanson)
  - Device Services - Steve (Iain Anderson)
  - Test/QA - Andy (Robin Chattergee)
  - DevOps - James
  - Security - Jim (Malini Bhandaru/Tingyu Zeng)
  - System Management - Jim
  - Certification - Randy (Rodney Hess)
  - Vertical Solutions - Moonki (Brad Corrin)

# Core Working Group (19-Jun-19)

- FYI RE: Feature Discussions (auto-provisioning, value descriptors)
  - No significant API changes for Fuji
  - Fuji will not be a 2.0, but the release after that could be.
  - Export services will probably have to be supported through Fuji b/c of this
- Unit testing
  - Reviewed pattern for refactoring / testing with two groups of team members
  - Initial PR for “Add New Device” use case
    - <https://github.com/edgexfoundry/edgex-go/pull/1453>
    - This one PR raised our total unit test coverage by almost %1 (see codecov.io report)
  - Kanban-style project in edgex-go
    - <https://github.com/edgexfoundry/edgex-go/projects/11>
    - Will be creating a note for each API endpoint supported past Edinburgh

# Applications WG Update (12-June-19)

1. Updates here
2. Later in today's TSC meeting - discussion on Application Functions SDK and Application Services versioning and repositories

# Device Services WG Update (12-6-19)

- SDKs
  - Some small fixes this week
  - Resolved a timestamping discrepancy between GO and C services
  - Ready for release on Thursday
- Discussion on ProvisionWatchers
  - IA to create new issues for blacklisting, device migrations

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

- Performance Test
  - Preparing automation script to collect data for performance summary report
  - 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
  - Started planning for rollout of new Robot test framework
- Next QA/Test meeting June 20th, 4pm PST

# DevOps WG Update (06-19-19)

## Edinburgh Release

- Release Process changes to be discussed in DevOps WG
  - Continuation of the discussion from the last few DevOps WG meetings will be discussed with formal plan in the next meeting.
    - Lisa Rashidi-Ranjbar will be discussing a proposal for a new versioning scheme and plan that differentiates major releases from release candidates / development

## 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
- Ernesto Ojeda has picked up the user story in this last sprint to work on the EdgeX Foundry website updates needed for Edinburgh marketing.



# System Management WG Update (6-19-19)

- 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
    - SMA Translation layer (stretch)

# Security WG Update (6-19-19)

- Refactored secret store service completed - PR pending review
  - Includes refactored go-mod-secrets client
- Refactored API gateway completed - PR pending review
- Security Issue Process
  - working Wiki/doc presenting issues
  - Collecting issues
  - SIR team formulation
- Additional Fuji work continues
- Malini & Tingyu taking over

# Certification WG Update (6-17-19)

- Starting work on how self-assessment will be packaged
- Plan of Record available on the Wiki
  - Self-assessment for Device Services first
  - Available by end of year based on Fuji release
  
- Meetings on Mondays at 7am PDT (1500 CET)

# Vertical Solutions WG Update (6-12-19)

- Rescheduling Andy Laudato, CTO of Vitamin Shoppe, due to scheduling conflict
- In his place we did a “walk the data” conversation from Device Service up to the Application Service
  - Have been hearing good things from new members about the session and the recorded (posted on the Commerce Project wiki)
- Have started conversations with Intel’s Industrial team to map their existing deployment requirements onto EdgeX Foundry, and we’ll have a



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# EdgeX V1 Launch

Keith Jim and Camilo

# EdgeX V1 Launch

- EdgeX Messaging Document
  - Used to drive consistency across collateral
  - [https://docs.google.com/document/d/1fB-t9uAX7mA4fOUPmt4V2nZBqw26J5fjVQbi\\_\\_yOUdE/edit?ts=5cf1a74a#](https://docs.google.com/document/d/1fB-t9uAX7mA4fOUPmt4V2nZBqw26J5fjVQbi__yOUdE/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

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## Silver Sponsor

- 5 Sponsorship Opportunities
- \$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



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# LF Requests



# LF help request procedures

- Linux Foundation IT team is migrating from an email-based support system
  - No more [helpdesk@edgexfoundry.org](mailto:helpdesk@edgexfoundry.org)
- LF IT is moving to a web-based platform provided by Jira Service Desk
  - Goto [support.linuxfoundation.org](https://support.linuxfoundation.org)
  - Sign in
  - Select Project Services
  - Select your need (ex: new repo)
  - Provide a summary, description and select EdgeX Foundry from project drop down
  - The press the Create button to issue the support ticket



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# TSC Annual Elections

# Our new TSC takes office June 24th

- Core/Supporting - Trevor Conn
- Applications - Mike Johanson
- Device Services - Iain Anderson
- Test/QA - Robin Chattergee
- DevOps - James Gregg
- Security - Tingyu Zeng & Malini Bhandaru
- System Management - Jim White
- Certification - Rodney Hess
- Vertical Solutions - Brad Corrion
- 3 At large
  - Keith Steele
  - Tony Espy
  - Joe Pearson

# General Schedule

Done - Monday, June 3: Establish list of Contributors, WG Chair Nominations

Done – Friday, June 7: TSC At-large nominations

Week of June 3 – June 7: WG Chairs elected by their perspective WGs

There was only one nominee per chair. No elections necessary

Week of June 17 – June 21: TSC Chair & Vice Chairman Nominations (by newly elected WG Chairs and TSC At Large members)

Monday, June 24: End of current TSC term

Tuesday, June 25: 1st day of new TSC

Week of June 24 – June 28: TSC Chair Voting



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## Upcoming Events

# 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/>

- › [EdgeX Meetup](#): 19 June, 2019 - Austin, Texas
  - › Brandon Forster from Dell will give an EdgeX overview and answer questions
- › [IoT Tech Expo Europe 2019](#): 19-20 June, 2019 - Amsterdam
  - › Janko Isidorovic from Mainflux will give a presentation on EdgeX Foundry & participate in an IoT panel.
  - › EdgeX is the media sponsor for the event and is providing a 20% off discount code, "EDGEX20".
- › [Open Source Summit China 2019](#): 24-26 June, 2019 - Shanghai
  - › June 25: Arpit Joshipura - LF: Keynote on Edge Computing
  - › June 25: Yachen Wang - Tencent: LF Edge: Open Source to Enable 5G, IOT and AI Development
  - › June 25: Drasko/Janko - Mainflux: Integration of Edge & Cloud IoT Platforms
  - › June 25: Xuan Jia - China Mobile: 5 Biggest Issues in Edge Computing
  - › June 25: LF Edge Panel: Edge Computing in the IoT
  - › June 26: Tina Tsou - Arm: Your Path to Edge Computing
- › [IoT Meetup - Shanghai](#): 25 June, 2019 - Shanghai, China
  - › Hosted by VMware
  - › Speakers from LF, VMware, Arm, Baidu, Tencent, Huawei

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## Upcoming External Events continued

- › [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
- › [Embedded Linux Conference \(ELC\)](#): 21-23 August, 2019 - San Diego
  - › August 20: [LF Edge Mini-Summit](#) - 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
  
- › 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 Networking Summit Europe](#): Sept. 23 - 25, 2019, Antwerp
  - › CFP Due: June 16
    - › <https://events.linuxfoundation.org/events/open-networking-summit-europe-2019/program/cfp/>
- › [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/>
- › [Embedded Linux Conference](#) (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/>



# 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



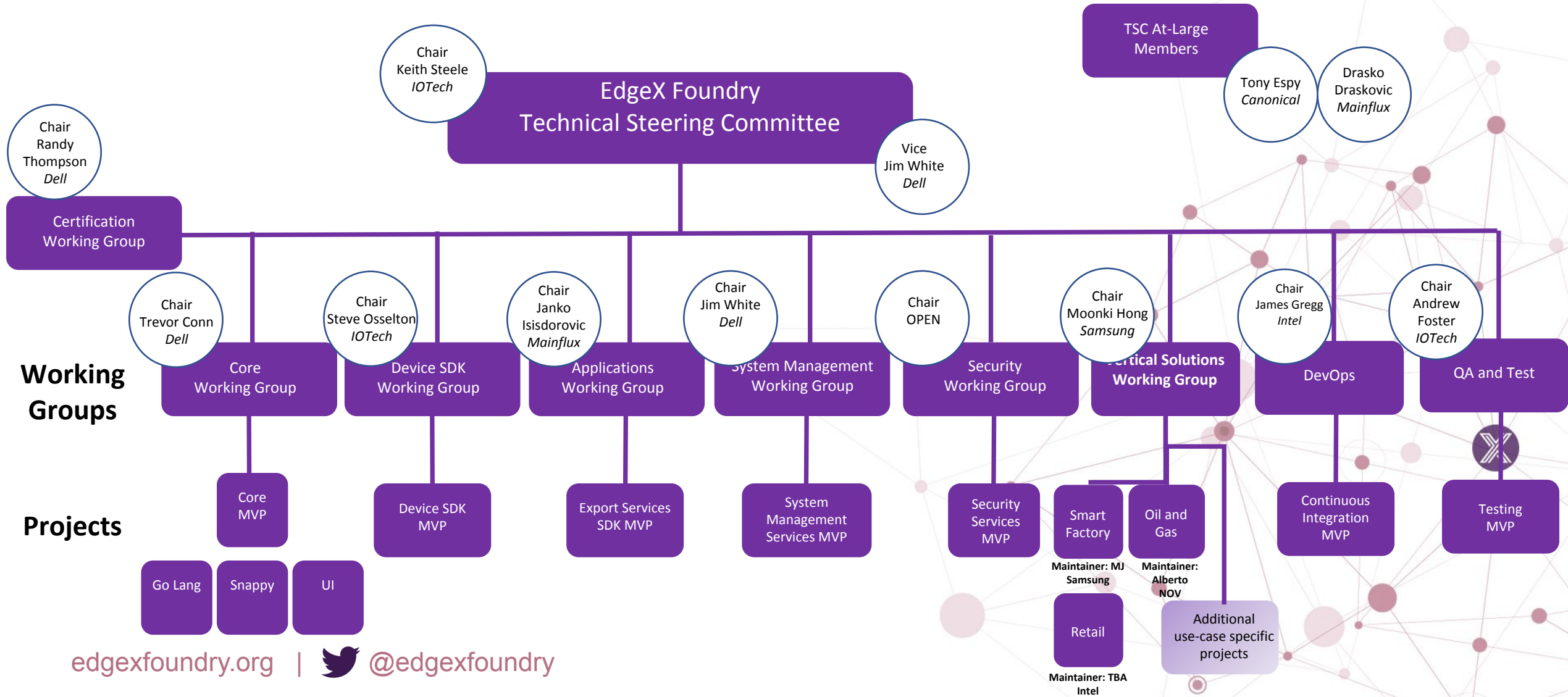
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AOB / Reminders

# 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**

# EdgeX Project Organization



# Marketing

- **CTA:** If your company will be presenting EdgeX at an upcoming event/webinar/other, please email [pr@lfedge.org](mailto: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 [info@edgexfoundry.org](mailto:info@edgexfoundry.org) 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](mailto:mwoster@linuxfoundation.org))
  - First Priority is the MVP - potential contributors please contact [keith@iotechsys.com](mailto:keith@iotechsys.com) (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

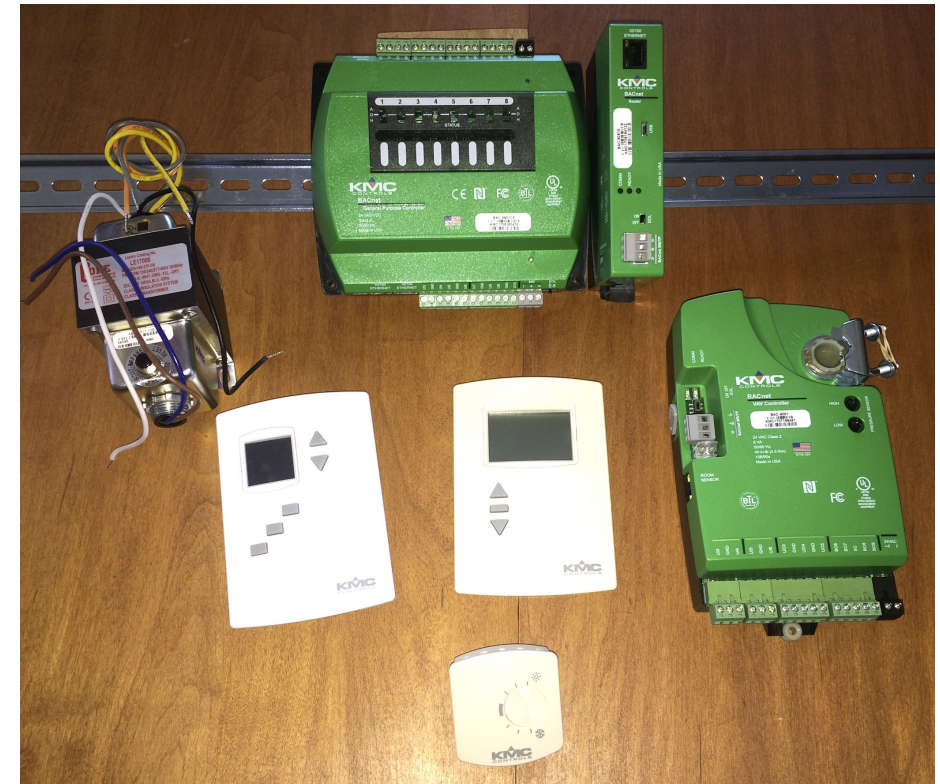
Call recordings are available on the [Wiki](#)

# 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 [Dave Bohlman](#) and [KMC Controls](#) 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](mailto:info@edgexfoundry.org) for assistance

**Related topics**

New Technology   Open Source   Interoperability   Smart Home   Internet of Things

Open Standards   Mobile Development   Internet of Everything   EdgeX

## EdgeX ▾

Find out what's happening in EdgeX Meetup groups around the world and start meeting up with the ones near you.

Related topics:



# 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 [pr@lfedge.org](mailto:pr@lfedge.org) 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



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Thank You