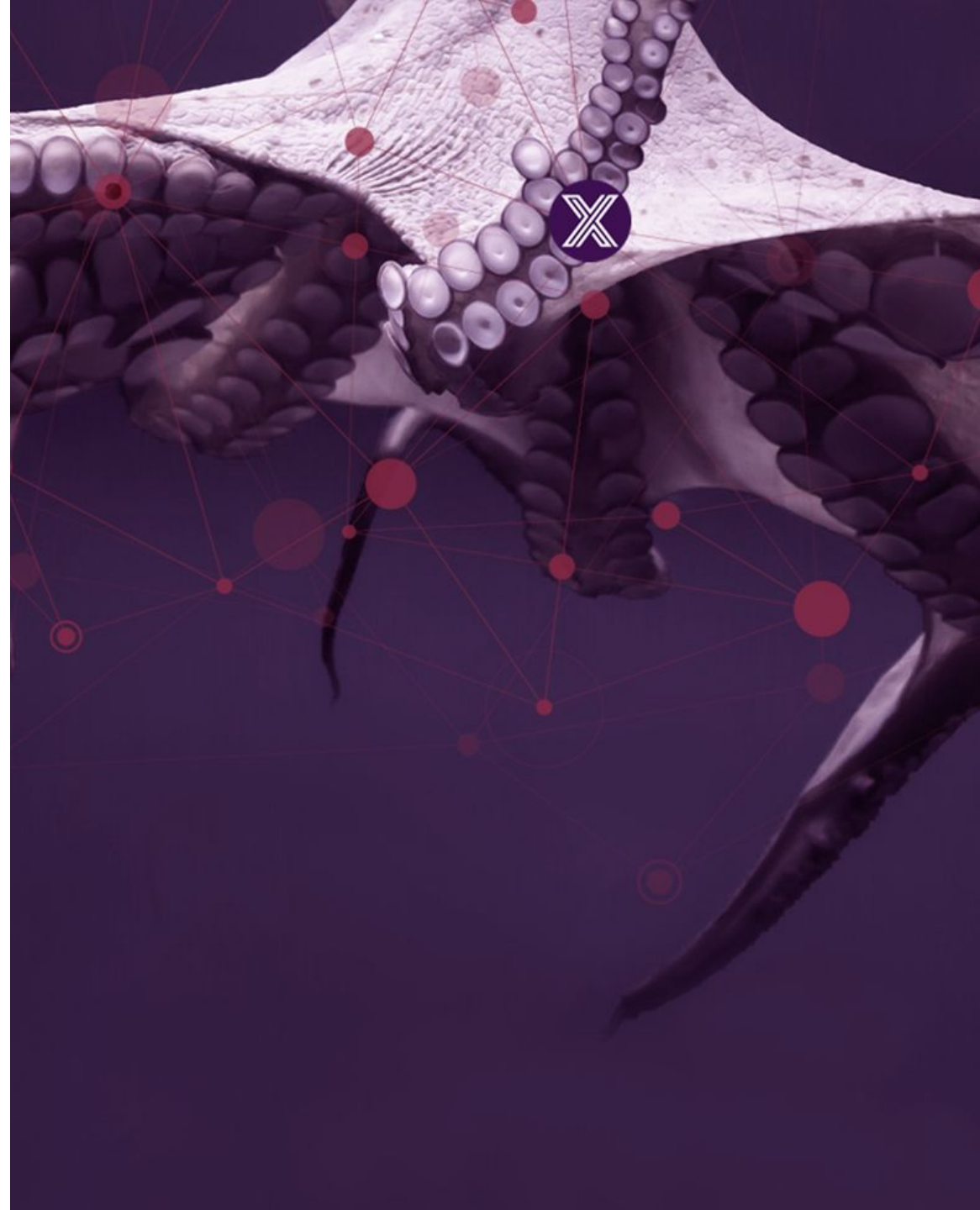


EDGE X FOUNDRY™

TSC Meeting

January 9, 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: January 9, 2019 7am PST – 8am PST

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>
IOTech	Andy Foster	andy@iotechsys.com
ForgeRock	David Ferriera	david.ferriera@forgerock.com
Mainflux	Drasko Draskovic	drasko@mainflux.com
Mainflux	Janko Isidorovic	janko@mainflux.com
Dell	Jim White (TSC Vice Chair)	james.white2@dell.com
IOTech	Keith Steele (TSC Chair)	keith@iotechsys.com
Samsung	Moonki Hong	moonki1.hong@samsung.com
IOTech	Steve Osselton	steve@iotechsys.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com

Current quorum = 7 members

*Note: TSC meetings shall require a **quorum of two-thirds of the TSC total members to take a vote or make a decision.** If a TSC meeting fails to meet the quorum requirement, discussions may proceed, however there shall be no voting or decisions. Decisions by vote at a meeting require a majority vote, provided quorum is met.*

Today's Agenda

- WG Updates
- Process Misc
 - Work ongoing
 - EdgeX Long/Short Term Support
 - Release, version, patches policy
- Next TSC F2F
- Upcoming Events
- AOB



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Work Group Updates

Chairs

Dev Ops Chair

- First order of business before WG updates...
- We are excited that James Gregg from Intel has stepped forward to be our new DevOps Working Group lead
- James and team are already hard at work on the project and come with a great deal of dev ops experience.
- **This requires TSC approval**

THANK YOU Jeremy Phelps

We also want to take a second to thank Jeremy Phelps for his almost 2 years of service to the project. Without Jeremy's outstanding work, the project would not be anywhere close to where it is today.

Thanks

Working Group Chair Updates

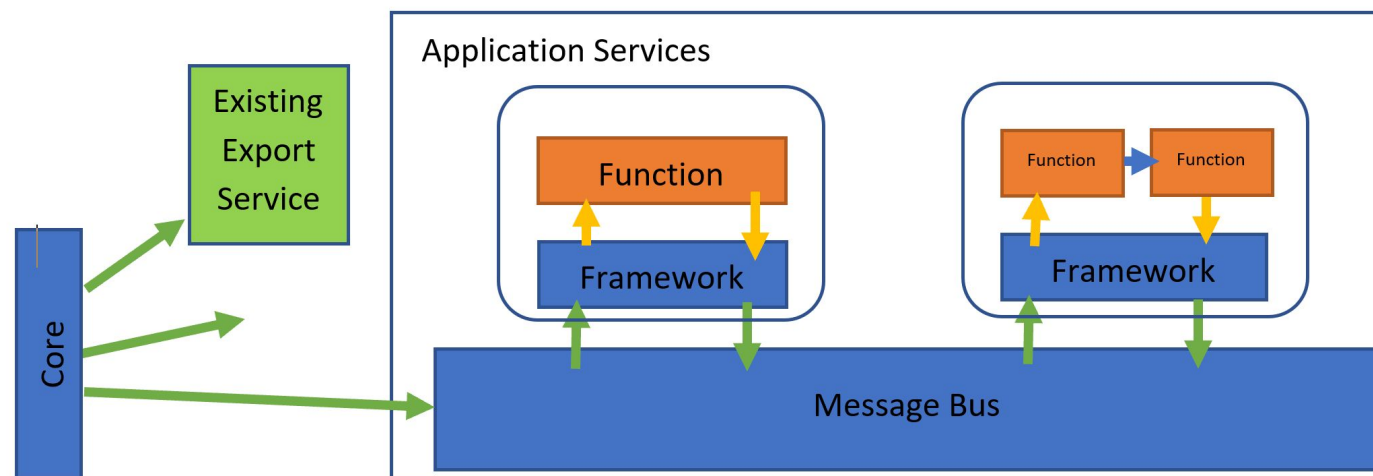
- Around the horn
 - Core/Supporting - Trevor
 - Applications - Janko
 - Device Services - Steve
 - Test/QA - Andy
 - DevOps - James
 - Security - David
 - System Management - Jim
 - Vertical Solutions - Moonki
- Developer Outreach - Michael

Core Working Group (9-Jan-19)

- Configuration Changes Underway
 - Per proposal circulated before end of year
 - Affecting edgex-go services only
 - Using Kanban project template in GitHub per community suggestion
 - <https://github.com/edgexfoundry/edgex-go/projects/4>
- Mongo model decoupling continues
 - Working through core-metadata service
 - This is a big service with many endpoints, so could take another week
 - Doing the best we can to keep blackbox tests green
- New version of Scheduler (PR 965)
 - Moves responsibility for schedules out of metadata and puts that functionality in a more appropriate place
- Core WG Call Tomorrow (Primary Agenda Item == Redis & plugins)

Applications WG Update (08-Jan-19)

- After comparing OpenFaaS and Nuclio, team came to conclusion that the deployment and performance are not designed for the Edge, however we really like the features.
- Over the next weeks we will examine if it is reasonable to develop the EdgeX Application framework which will enable us to have functionality similar to Serverless but on the Edge.



- Application WG face to face meeting is scheduled for January 24 and 25 2019, Boston MA
- Location: Dell EMC office (255 Main St) in Cambridge
(<https://www.google.com/search?client=firefox-b-1&q=255+main+street+cambridge+ma#>)
- Contact me or Jim White if you want to attend.

Device Services WG Update (9-1-19)

- Go SDK
 - Minor Bug fixes.
- C SDK
 - Minor bug fixes/enhancements. Needs CI build integration.
- Device Services
 - Fixes for random/mqtt/modbus services
- General
 - Plan for a 0.7.2 release of SDKs and services
 - Discussing device profile changes in shared requirements doc
 - Discussion on BLE implementation alternatives

Test/QA WG Update (01-09-19)

- Fixed black box test issues [#120](#), [#127](#), and [#128](#)
- Updating document to instruct how to run Allure dashboard locally with blackbox tests
- Performance test implementation
 - Implemented 2 Core Metadata test cases and 1 Core Data test cases
 - i. Upload 5 device profiles which file size are around 500kb concurrently and continuously for an hour
 - ii. Create 50 addressables concurrently and continuously for an hour
 - iii. Send event / reading continuously for 24 hours from 50 devices
 - Prepared Grafana dashboard for performance test demo at next DevOps + QA/Test WG meeting

DevOps WG Update (01-09-19)

TSC Vote to accept James Gregg as new DevOps WG Chair

Several User Stories currently being worked by Intel Team in current sprint.

- device-sdk-c
- device-grove-c

Thank you Jeremy for all your help.

Security WG Update (01-09-18)

- Documentation work:
 - API Gateway complete and ready to be merged
 - Secret store just beginning
- Completed 2 sessions on HW-Based secure storage
 - Final session next week (I hope :)
- Automated testing work begins this week

System Management WG Update (1-9-19)

- Start/stop/restart API design in progress
 - Akram has docker-compose with docker-in-docker working
 - Working on the call to any “executor” and implementation of the new API
- Next tasks
 - Go & C SDK (and device services) incorporation work to be done
 - Add CPU usage metrics (in addition to memory usage metrics)
 - Add health/status check of the services to the SMA
 - **Stretch goal** – provide a translation layer (with abstraction) to offer SMA API via other protocol (like LWM2M, **SNMP**, etc.)

Vertical Solutions WG Update (12-12-18)

- WG calls to resume in the new year

Developer Outreach (01-09-19)

- Done
 - [New forum](#) from Discourse
 - [Devkit page](#) for RPi3-based community devkit
- In Progress
 - New Device Service docs for MQTT, Modbus and Random
 - Device Profile spec Q&A this Friday (Jan 11th)
- Upcoming:
 - Writing a Device Service in C



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EdgeX Process & Misc Items

EdgeX Process & Misc Items

- Work still on going (see Wiki for current drafts)
 - Releases, versions, patches definitions & policies
 - LTS/STS still being reviewed & worked



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EdgeX TSC F2F Meetings

EdgeX TSC F2F Meeting(s)

- **22 - 25 April, 2019** -- Location Seoul, South Korea -- [Wiki page](#)
 - Technical Business Discussions + EdgeX 101 on Monday, April 22
 - Architect's Day / WG Breakout Sessions + Social Event on Tuesday, April 23
 - Technical F2F - Day 1 + Dinner Reception on Wednesday, April 24
 - Technical F2F - Day 2 on Thursday, April 25
- **RSVP at <https://goo.gl/forms/oMptkNU90RRxhK5g1>**
 - RSVP by EOD April 5
 - Current registration count: 5 in-person; 0 dial-in
- Hotel/Travel: Information coming soon

Discussion: Does the TSC want to move the F2F meeting up by a week (April 15) or back a week (April 29)?

- Easter Sunday is April 21, which would be a travel day for most
 - Good Friday is April 19, which could impact some folks the week of April 15
 - April 29 - May 2 is Dell World
 - Other April events include Hannover (April 1-5), IOTBuild (April 9-10), Global IoT Expo (April 25-26)
-
- **October, 2019** -- Location Chandler, Arizona (USA) @ hosted by Intel



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Upcoming Events

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

Additional EdgeX events available at
<https://www.edgexfoundry.org/events/>

Upcoming Events

- [Emerging Computing Technology Conference](#), January 29-30, 2019, Houston
 - Akram Ahmad (Dell) - January 29 at 4:15 pm
- [IoT Evolution Expo](#), January 29 - February 1, Fort Lauderdale
 - Jim White (Dell) - TBD - Edge Computing: Remotely acting on mission-critical decisions in the field

Full list of LF events available at
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Additional EdgeX events available at
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Upcoming CFPs

CFP Upcoming Deadlines:

- [Open Source Leadership Summit](#), March 12-14, 2019, Half Moon Bay, CA
 - CFP Status: Closes January 28, 2019
 - <https://events.linuxfoundation.org/events/open-source-leadership-summit-2019/program/cfp/>
- Open Source Summit China, June 24-25, 2019 | Shanghai, China
 - CFP Status: Opens December 1, 2018 – March 10, 2019
- Members interested in joining the EdgeX [Speakers Bureau](#), please email pr@edgexfoundry.org



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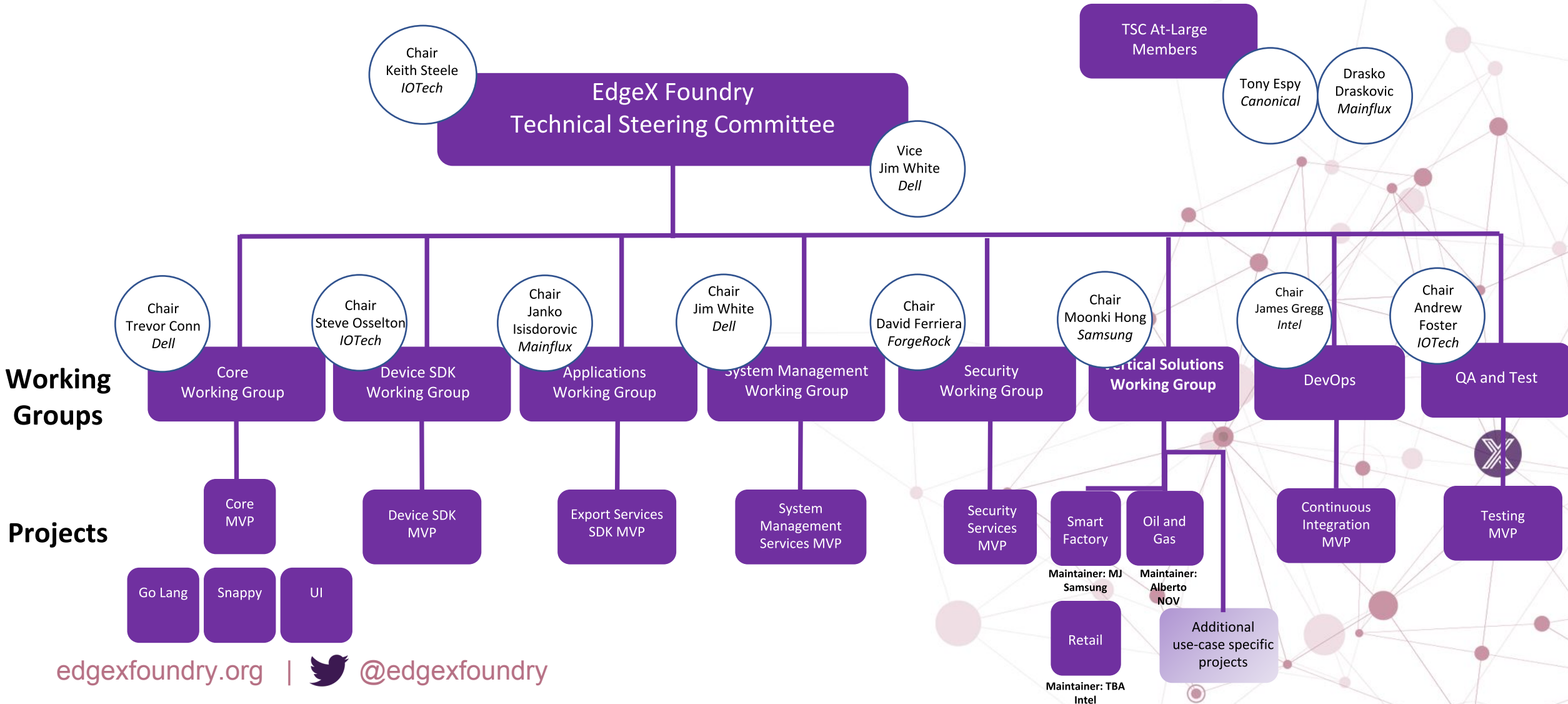
AOB / Reminders

AOB/Cadence

- Meeting Cadence Reminder
 - Currently held weekly at 7am PST on Wednesday's
 - Calls without TSC quorum will still be used to review issues

- **Next Meeting: January 16, 2019**

EdgeX Project Organization



Marketing

- **CTA:** If your company will be presenting EdgeX at an upcoming event/webinar/other, please email pr@edgexfoundry.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 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 Brett Preston at LF (bpreston@linuxfoundation.org)
 - First Priority is the MVP - potential contributors please contact 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://chat.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 Rocket Chat

<https://chat.edgexfoundry.org/home>

- [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](#)

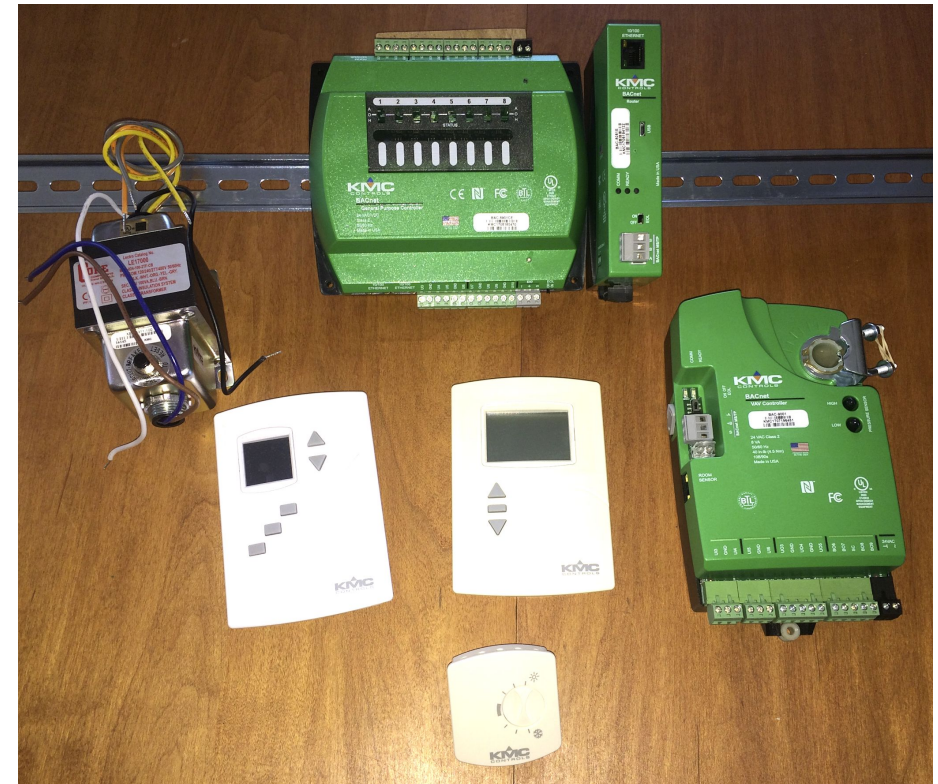
What is the Device Exchange?

- 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 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@edgexfoundry.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