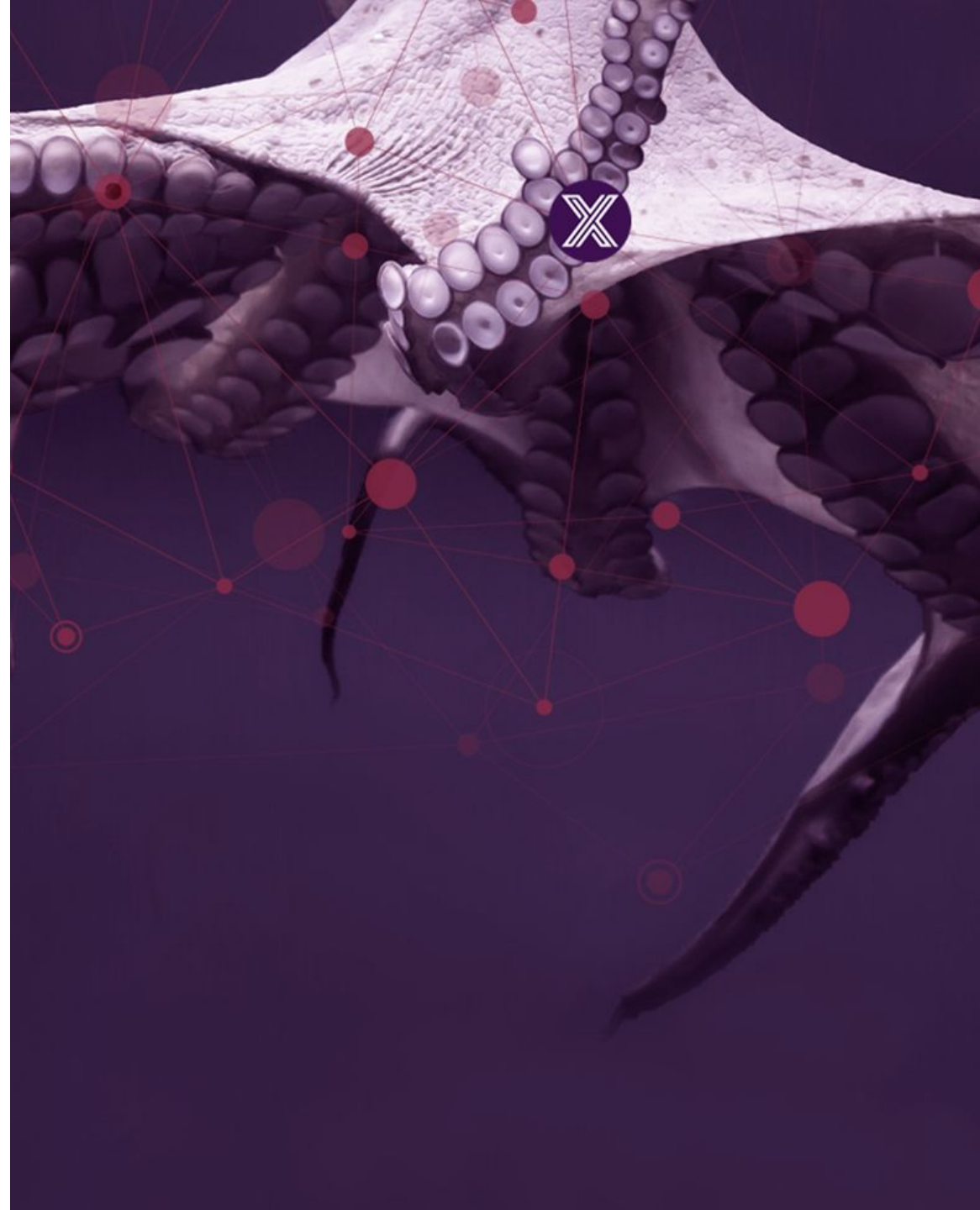


EDGE X FOUNDRY™

TSC Meeting

January 30, 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: February 6, 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/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	andy@iotechsys.com
ForgeRock	David Ferriera	david.ferriera@forgerock.com
Mainflux	Drasko Draskovic	drasko@mainflux.com
Intel	James Gregg	james.r.gregg@intel.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
Dell	Randy Thompson	Randy.T@dell.com
IOTech	Steve Osselton	steve@iotechsys.com
Canonical	Tony Espy	espy@canonical.com
Dell	Trevor Conn	Trevor.Conn@dell.com

Current quorum = 8 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

- LF Edge Announcement
- WG Updates
- Next TSC F2F
- Upcoming Events
- AOB



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Linux Edge Announcement

Brett & Arpit



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Work Group Updates

Chairs

Working Group Chair Updates

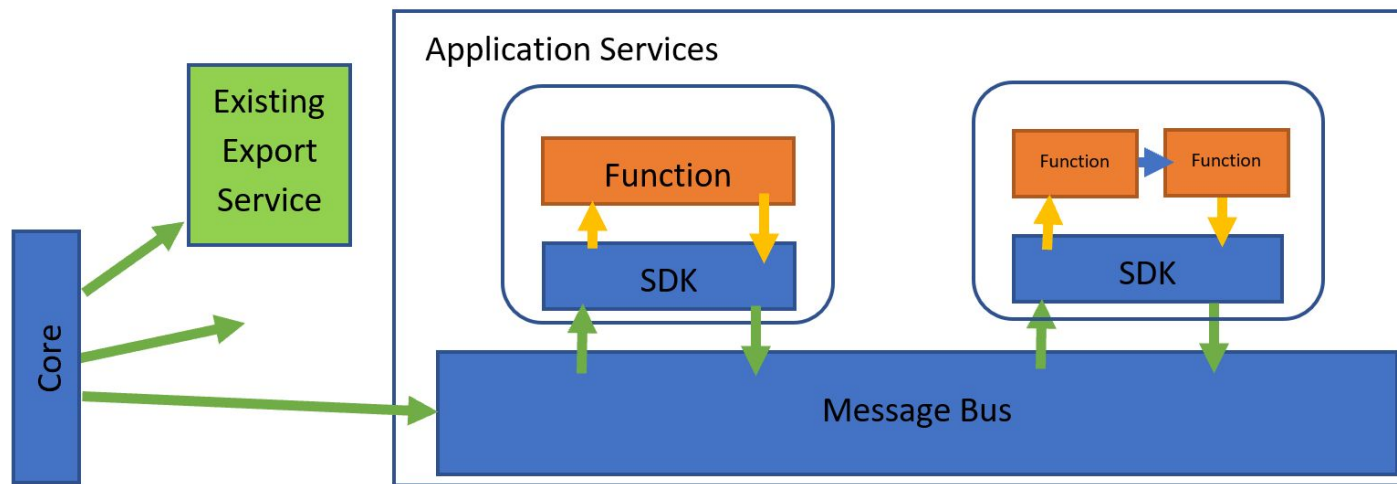
- Around the horn
 - Core/Supporting - Trevor
 - Applications - Janko
 - Device Services - Steve
 - Test/QA - Andy
 - DevOps - James
 - Security - David
 - System Management - Jim
 - Vertical Solutions - Moonki
 - Certification - Randy
- Developer Outreach - Michael

Core Working Group (30-Jan-19)

- No major milestones this past week
 - Good discussion in Boston with community members around plan for application services.
 - We do have some potential backlog items awaiting Device Service workgroup input
- Circulated document on Go module adoption Sunday evening via DevOps and GoLang mailing lists
 - Externalizing functionality from edgex-go/internal into modules
 - For use in device-services, upcoming application services work
 - Issues 1039-1049, 1053, 1057, 1063
 - I have only received comment on the document from Jeremy as applicable to aspects of DevOps process.
 - I expect we'll talk about this in both DevOps / Core WG calls tomorrow
 - If you're participating in the discussion, please read the document first.

Applications WG Update (30-Jan-19)

- Application WG face to face meeting was held on January 24 and 25, 2019, Boston MA
- Extremely productive and helpful meeting, thanks everyone for participating.
- Decision is made to create SDK which will be used to create future Application Services
- Special thanks to Intel for demoing SDK ideas.
- We road roadmap for our near term and long term direction around application services.



- Meeting notes and general design ideas are in the wiki:

<https://wiki.edgexfoundry.org/display/FA/Application+Services+Face-to-Face+Meeting>

Device Services WG Update (23-1-19)

- Go SDK
 - Updated to track database abstraction in core
- C SDK
 - SMA API added
 - Added support for shift and mask data transforms
 - Working on generic registry API
- Device Services
 - Minor updates/fixes for modbus device
- General
 - Proposed solution for floating point encoding options
 - Intel presented IP Camera device service

Test/QA WG Update (01-30-19)

- Fixed black box test issue #139
- Pushed [performance test repository](#) to edgexfoundry holding area
- [Performance test documentation](#) (test creation and environment setup) available for review
- Completed work to generate Allure dashboards on Jenkins. In the process of documenting steps so that LF DevOps can deploy capability on EdgeX Jenkins server.
- Investigating failed blackbox test cases

DevOps WG Update (01-29-19)

Several User Stories currently being worked in current sprint.

- **device-sdk-c** (WIP) - build servers missing dependencies
- **device-grove-c** (WIP)
Working through the build issues with Eric Ball / Jeremy Phelp's help behind the scenes
- Go Module POC (WIP)
successful build on Sandbox with **device-sdk-go**

Next DevOps WG meeting - Thursday 7AM PST

Agenda will discuss topics related to addressing legacy Java repos and versioning.

Explore on Additional tooling to support QA / Test to include cost analysis

- Codecov.io (SaaS)
- SonarQube (OSS)

Security WG Update (01-16-19)

- Documentation work:
 - Secret store near completion
- Finalize HW Secure Storage design document today
 - Coding can begin next.
- Automated testing design has begun

System Management WG Update (1-30-19)

- Nothing huge to report
 - Additional task to incorporate into new application services
- Start/stop/restart wrapped up
- 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 (1-30-19)

- x

Certification WG Update (1-30-19)

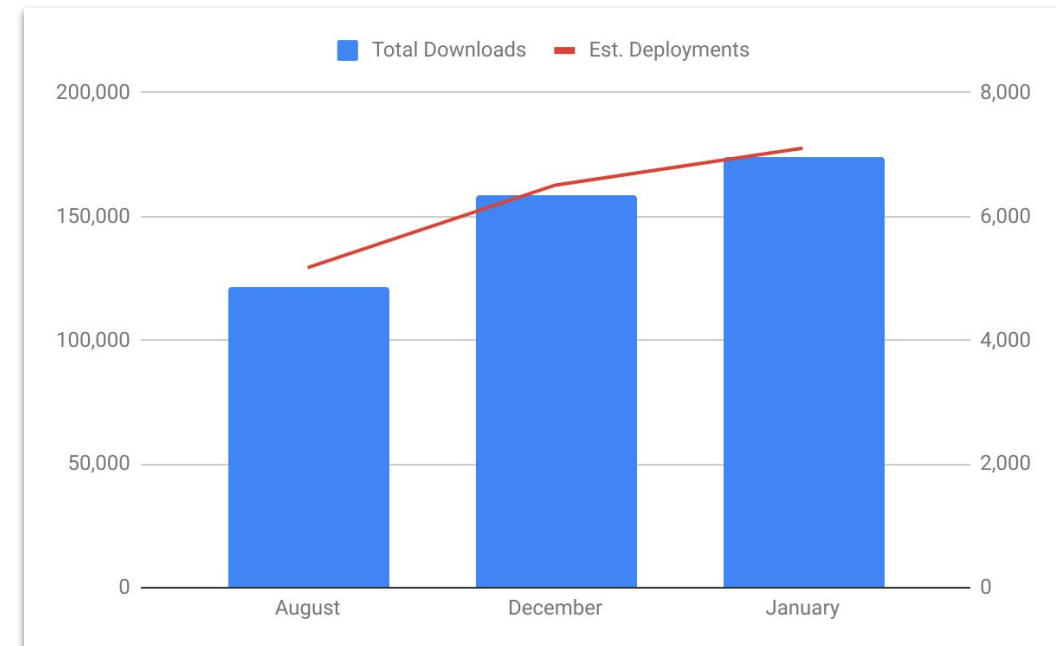
- Certification WG approved by TSC on Jan 23
- First meeting scheduled for Monday Feb 4 at 10am EST (1500 GMT)
- Anyone with an interest in Certification is welcome to attend

Developer Outreach (01-30-19)

- Community Devkit deep-dive [Tech Talk](#) this Friday
- New Documentation:
 - [Security Secret Store \(Vault\)](#)
 - [Modbus](#), [MQTT](#) & [Random](#) Device Services
 - Removed old Java MQTT documentation
 - Device SDK C Guide (in progress)
- Wiki updated to allow collaborative editing

Developer Metrics (01-30-19)

- 5,481 website viewers (up 18%)
- 1,672 views of the Quickstart Guide (up 109%)
- GitHub issues: 173 opened, 154 closed
- 66 commits (down from 94)
- 2 new authors
- 1,100 new deployments by Docker





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EdgeX TSC F2F Meetings

EdgeX TSC F2F Meeting(s)

- **29 April - 2 May, 2019** -- Location Seoul, South Korea -- [Wiki page](#)
 - Technical Business Discussions + EdgeX 101 on Monday, April 29
 - Architect's Day / WG Breakout Sessions + Social Event on Tuesday, April 30
 - Technical F2F - Day 1 + Dinner Reception on Wednesday, May 1
 - Technical F2F - Day 2 on Thursday, May 2
 - **RSVP at <https://goo.gl/forms/oMptkNU90RRxhK5g1>**
 - RSVP by EOD April 12
 - Current registration count: 7 in-person; 0 dial-in
 - Hotel/Travel: Recommended hotels listed on [Wiki](#)
-
- **October, 2019** -- Location Chandler, Arizona (USA) @ hosted by Intel



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Upcoming Events

Upcoming Events

- [IoT Evolution Expo](#), January 29 - February 1, Fort Lauderdale
 - Jim White (Dell) - January 29 at 3:00 pm - Edge Computing: Remotely acting on mission-critical decisions in the field
 - Jim White (Dell) - January 31 at 12:15 pm - Addressing IoT Protocol Soup with a Dual Transformation Engine
- [The Emerging Computing Technology Conference](#), January 29 - January 30, Houston
 - Akram Ahmad (Dell) - January 29 at 4:15 pm - Advanced Edge Computing Devices – Intelligent Edge Gateways
- [EdgeX Meetup in Boston, MA](#), January, 31, 5:30 - 7:30 PM, Boston
 - Beechwoods Software to give update on progress of EdgeX
 - Will provide a technology demo of EdgeX running on AMD's newest Edge Computing platform

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

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

Upcoming CFPs

CFP Upcoming Deadlines:

- [Open Source Summit China, June 24-26, 2019](#) | Shanghai, China
 - CFP Status: Closes February 15, 2019
 - https://linuxfoundation.smapply.io/prog/open_source_summit_china_2019/
- Members interested in joining the EdgeX [Speakers Bureau](#), please email pr@edgexfoundry.org



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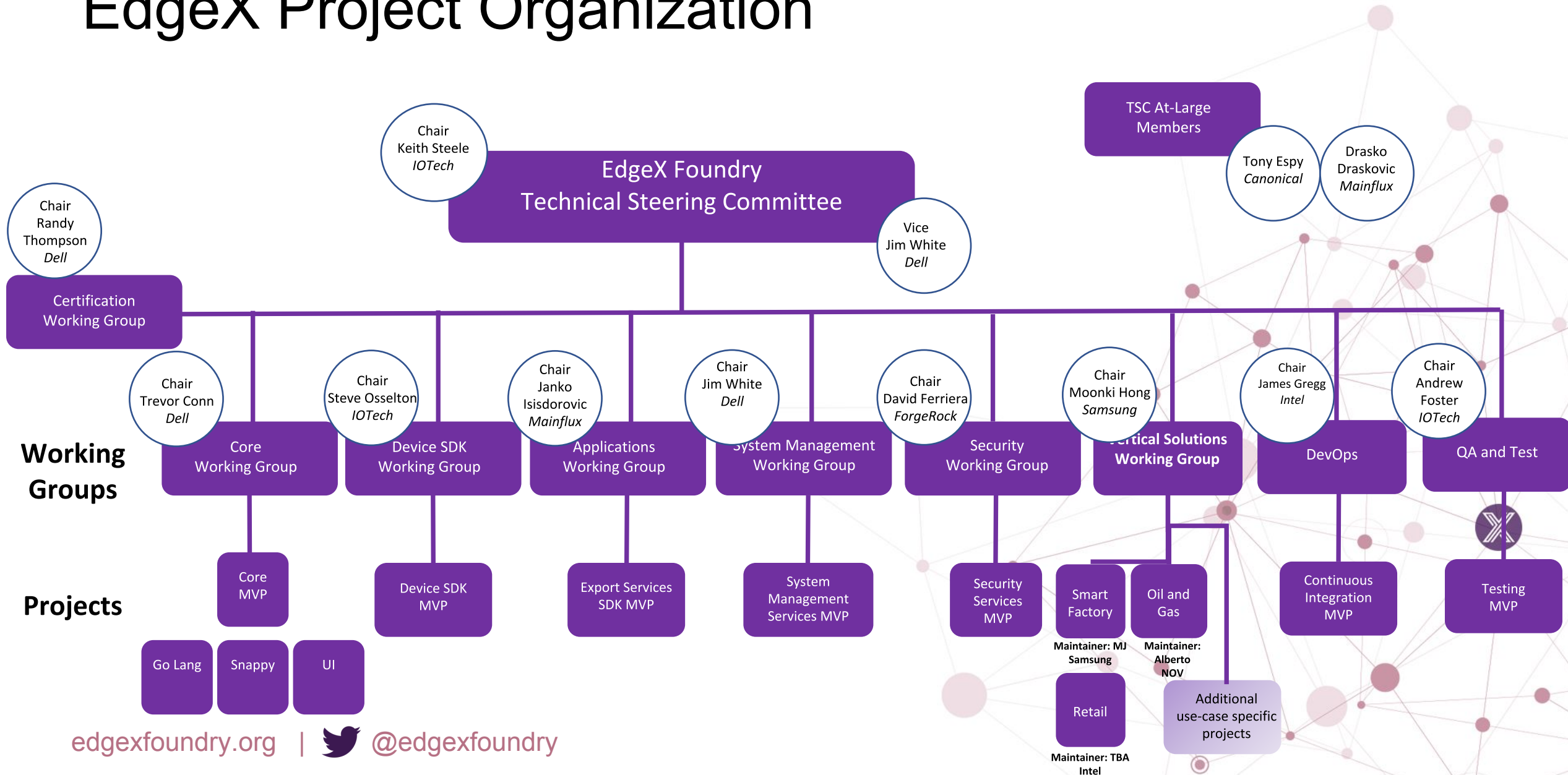
AOB / Reminders

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: February 6, 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](#)

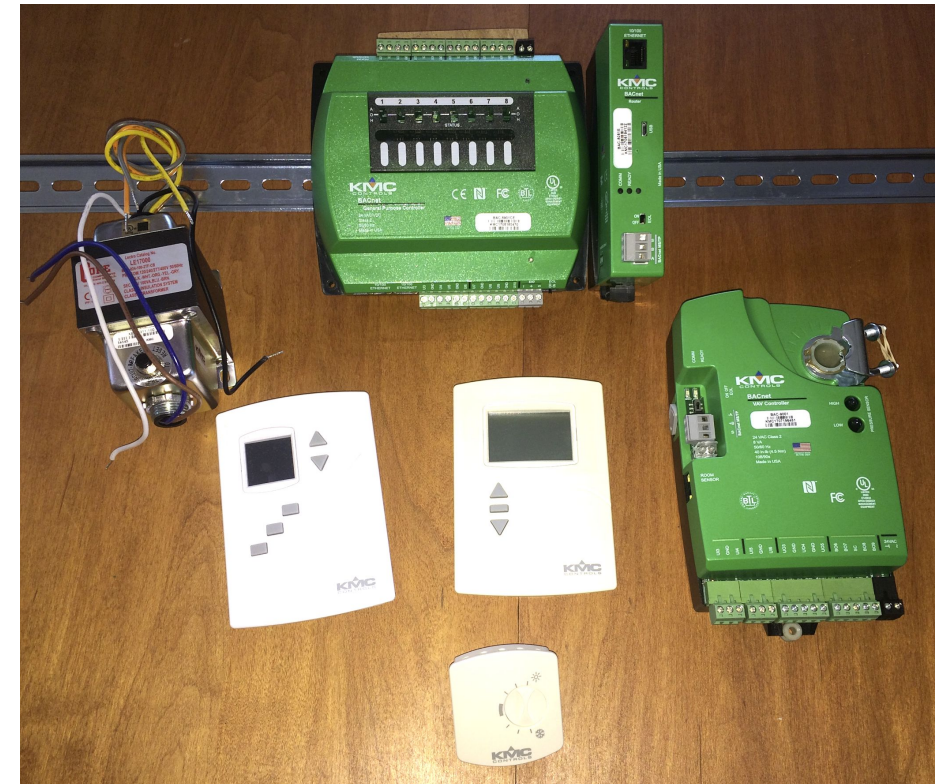
What is the Device Exchange?

- 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



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