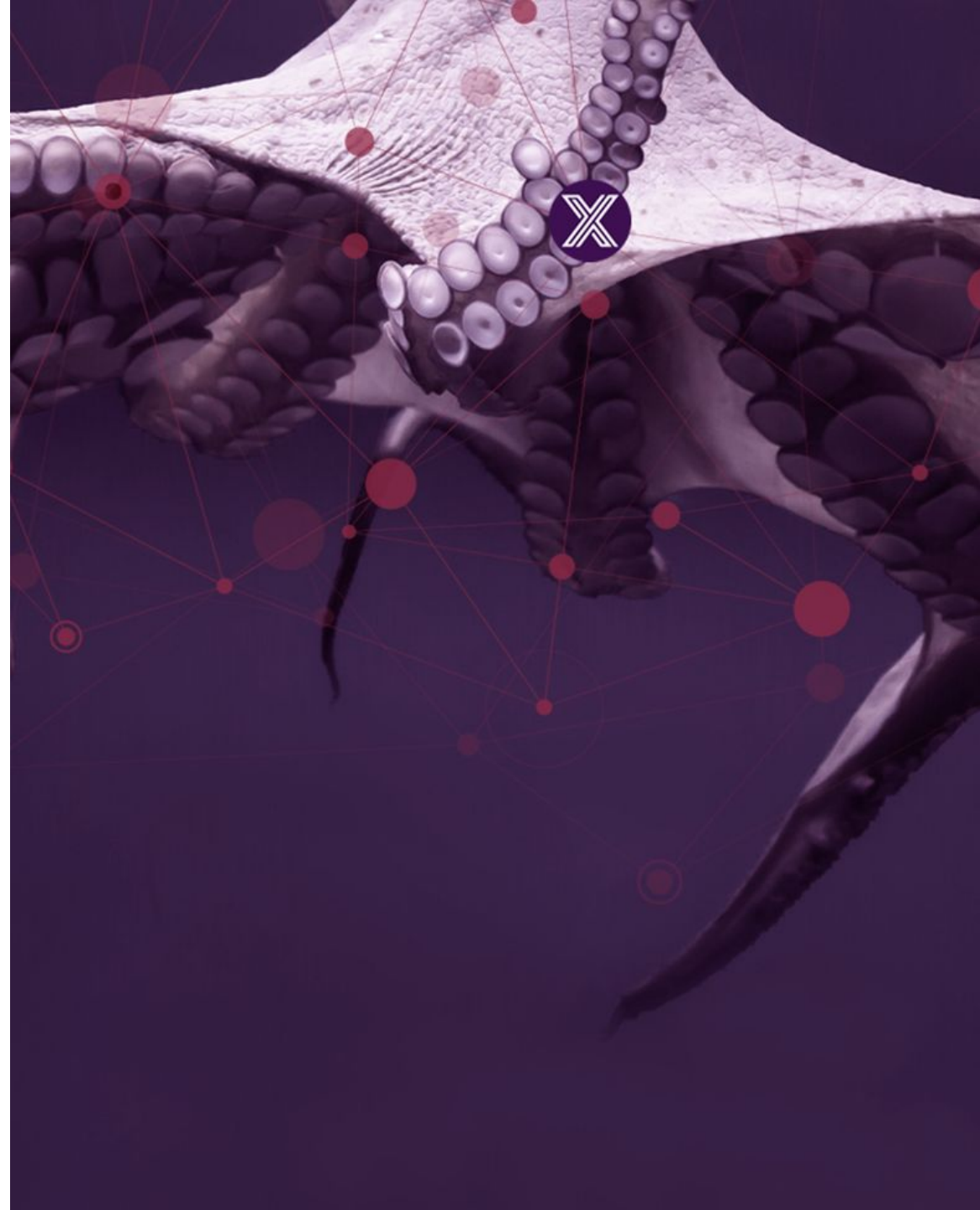


EDGE X FOUNDRY™

TSC Meeting

June 27, 2018



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 27, 2018 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> |
|----------------------|---------------------------------|--|
| IOTech | Andy Foster | andy@iotechsys.com |
| ForgeRock | David Ferriera | david.ferriera@forgerock.com |
| Analog Devices | Doug Gardner | doug.gardner@analog.com |
| Mainflux | Drasko Draskovic | drasko@mainflux.com |
| Mainflux | Janko Isidorovic | janko@mainflux.com |
| The Linux Foundation | Jeremy Phelps | jphelps@linuxfoundation.org |
| Dell | Jim White | 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 = 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.*

Today's Agenda

- TSC Elections Updates
- TSC Vice Chair
- California Release & Working Group Updates
- Security Progress - Special Meeting Wednesday 18th July
- Contributor Count
- Next TSC F2F Meetings
- IIC Updates
- Upcoming Events
- AOB



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TSC Elections Updates

Updated TSC

- Applications Working Group Chair: Janko Isidorovic (Mainflux)
- Core WG Chair: Trevor Conn (Dell)
- DevOps WG Chair: Jeremy Phelps (LF)
- DS/SDK WG Chair: Steve Osselton (IOTech)
- Security WG Chair: David Ferriera (ForgeRock)
- System Management WG Chair: Jim White (Dell)
- Test/QA WG Chair: Andy Foster (IOTech)
- Vertical Solutions WG Chair: Moonki Hong (Samsung)
- At-large TSC Member: Drasko Draskovic (Mainflux)
- At-large TSC Member: Keith Steele (IOTech) - **TSC Chair**
- At-large TSC Member: Tony Espy (Canonical)
- Platinum Representative: Doug Gardner (Analog Devices)

TSC Vice Chair

- I'm proposing we elect a TSC Vice Chair
- I would like to personally see Jim White take this role
 - Improve the technical competence of the office
 - Stand in at meetings
 - 'Lead Architect' role
- I'm proposing Jim White for role, any other nominations please let Brett know by 5pm PDT on 2nd July



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California Release & Work Group Updates

California Release Date Planning

- Core, supporting, export services will be branched/tagged on Thursday after Core WG meeting
- Security services will be branched/tagged on Monday
- Blackbox tests will be branched/tagged on Wednesday
- Cut docker-compose files on 29th

Working Group Chair Updates

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

Core Working Group (27-June-2018)

- All services have been branched for California
- Challenges related to core-config-seed go and Consul
 - Had to separate into two containers for this release
 - Established local methodology for testing and verification BEFORE submitting PR
 - Probably is root cause of ongoing issues with California blackbox tests via CI/Jenkins
 - Waiting for verification as of this writing
- Analysis starting on support-scheduler/notifications for Delhi
- Delhi work item list prepped, prioritization meeting on July 9-11

QA/Test WG Update

- In the process of committing new EdgeX blackbox tests into project repository
- In addition to existing blackbox tests for Core Data, Core Metadata and Core Command, California release will be supported by new tests for:
 - Notifications, Scheduling, Logging, Export Client, Rules Engine
 - Device Service SDK
- PRs for Notifications and Logging have been issued but currently not merged due to build failures
- About to submit PRs for Rules Engine, Export Client and Device Service SDK today

Device Services WG Update (27 June 2018)

- Requirements for binary encoder published for review
- Go device SDK now supports basic publication of data
- Latest revision (0.8) of SDK requirements available
- Meeting notes now available on Wiki



Security Progress - Special Meeting Wednesday 18th July

David Ferriera



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Contributor Count

Contributor Count & Project Progress Data

- The project shows only 5 contributors
- There are well over 40
- Opt in/Opt Out
- Action plan to reflect true project activity



Next TSC F2F Meetings

Keith Steele

EdgeX TSC F2F Meeting(s)

- Tuesday & Wednesday 23rd/24th October -- Location Edinburgh, UK -- [Wiki page](#)
- Working Group technical meetups on Monday, October 22
 - **RSVP at <https://goo.gl/forms/QR3WgP4ybB5KUT3w2>**
 - Current registration count: 5 in-person; 0 dial-in
 - Monday Working Group Counts
 - Core: 1
 - Applications: 1
 - Hotel/Travel:
<https://events.linuxfoundation.org/events/elc-openiot-europe-2018/attend/venue-travel/>
 - For Tuesday night dinner/activity, Scotch whisky tasting!!
- April 2019 -- Location Seoul or Suwon (South Korea)
- **The team would like to make some schedule changes if possible.**



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IIC Updates

Riaz Zolfonoon

IIC Update

- We reviewed agenda last week.
- Selected speakers and all accepted
- Next I work with Sven and Kathy on timing of the session
- Cynthia is working on social event
- may be worth also considering by a Meeting with IIC Board during the week

Next steps for planning IIC/EdgeX Workshop

Sept 10-14

Chicago, IL

- Following last week review and approval of the agenda, Riaz notified Sven and Wael that we are good with the proposed agenda and will start planning the presentations and speakers for Edgex items on the agenda
- Sven confirmed the receipt of my message and that IIC will start doing the same
- We have an internal (Edgex) call set up for tomorrow (Thursday) with members of committee assigned earlier to work on the details of the agenda for workshop. This is follow up to email discussion regarding objectives, demos, social events, etc

Note: Just FYI and for planning considerations for those traveling to Chicago: At the same time as IIC meeting, there is also Hannover Messe USA and Intelligent Transportation Forum (ITS) happening in Chicago. On Friday 9/15, IIC and ITS are planning some joint activities.

<https://hannovermesseusa.com/>

Agenda

- 1. Introductions and Workshop Overview (10 min)**
Speakers: SWG Chair, LWG Chair, [EdgeX](#)
- 2. Overview of the IIC Liaison Working Group (10)**
Speaker: LWG Chair
- 3. Overview of EdgeX Foundry Initiatives/Activities (10)**
Speaker: [EdgeX](#)
- 4. IIC Security Initiatives (30)**
Speakers:
- 5. EdgeX Architecture/Security Overview (30)**
Speakers: [EdgeX](#)
- 6. Break (15)**
- 7. EdgeX Vertical Solutions Groups (15)**
Speakers: [EdgeX](#)
- 8. Panel Discussion & Q/A on Collaboration/Way Forward(55)**
Moderator: SWG Chair, Panelists: all presenters
- 9. Closing (5)**

Total: 3 hrs



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Upcoming Events

Upcoming Events - Confirmed

- [EdgeX Tokyo Meetup](#), July 3, 2018, Tokyo
 - Agenda: <https://www.edgexfoundry.org/event/edgex-foundry-meetup-in-tokyo-on-july-3/>
 - RSVP at: <https://goo.gl/forms/TaCIMtm5jGu8JhuH2>
- [Open Source Summit North America](#), August 29 - 31, 2018, Vancouver, Canada
 - Community Partner: Save 15% on Attendee Registration with discount code OSSNA18COM15
- [EdgeX / IIC Workshop](#), September 12, 2018, Chicago, IL
 - Hosted jointly by:
 - IIC Security (Chair: Sven Schrecker, Intel)
 - Liaison Working Group (Chair: Wael William Diab, Huawei)
 - EdgeX Liaisons: James Clardy, NetFoundry, Riaz, Salim AbiEzzi VMware
- [Open Networking Summit Europe](#), September 25 - 27, 2018, Amsterdam, Netherlands
 - Community Partner: Save 15% on Attendee Registration with discount code ONSEU18COM15

Upcoming Events - Confirmed (continued)

- [IOT Solutions World Congress](#), October 16-18, 2018, Barcelona
 - CFP and Call for Testbeds have closed. Email pr@edgexfoundry.org if you were selected so that we can track/promote
 - EdgeX is in process of securing a booth (call for booth staff volunteers will follow)
 - Who is planning to be on-site?
 - Brett Preston (LF), ...
- [Open Source Summit Europe](#), October 22 - 24, 2018, Edinburgh, UK
 - Community Partner: Save 15% on Attendee Registration with discount code OSSEU18COM15
 - CFP open through **July 1** / Submit your EdgeX talk [here](#)
- [ELC / OpenIoT Summit Europe](#), October 22 - 24, 2018, Edinburgh, UK
 - CFP open through **July 1** / Submit your EdgeX talk [here](#)



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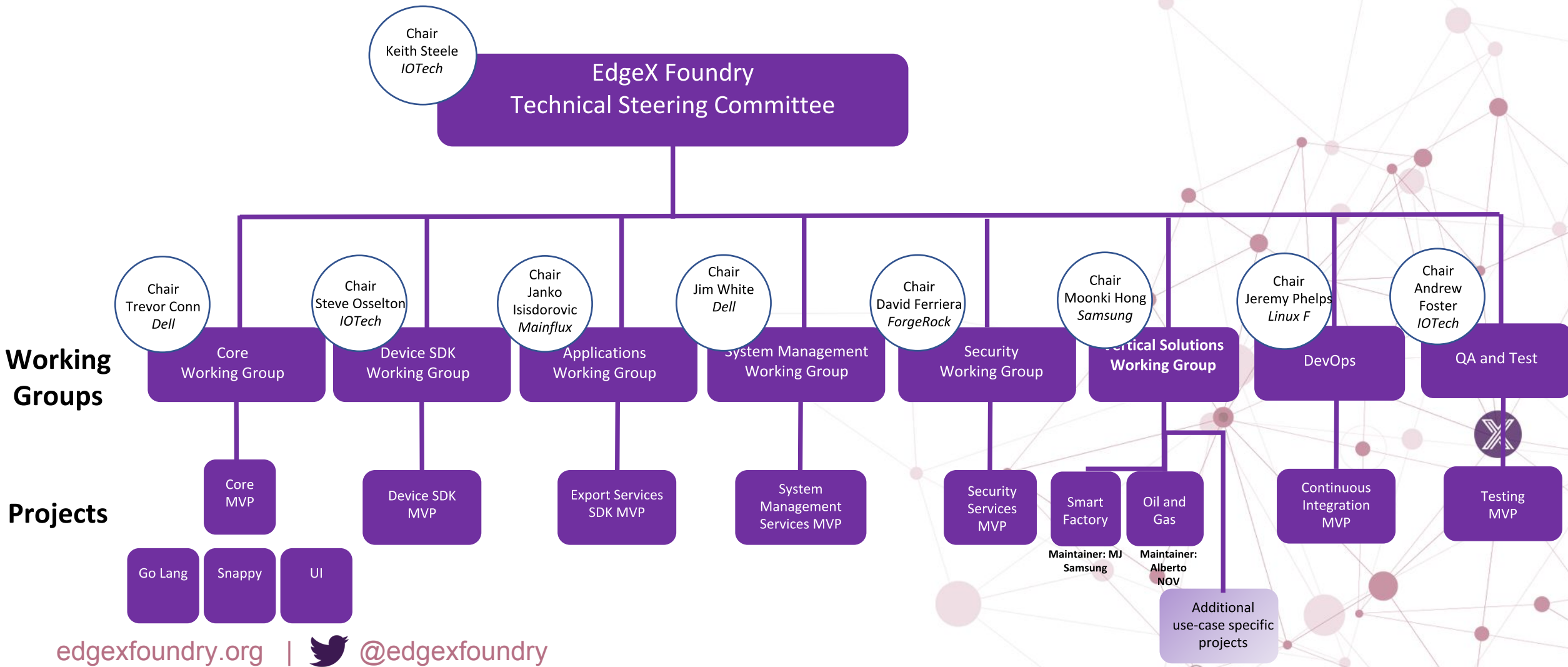
AOB / Reminders

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: July 11, 2018**

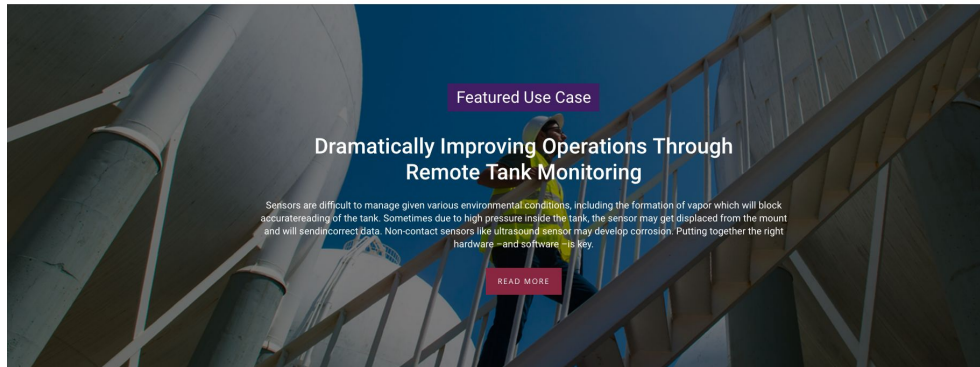
EdgeX Project Organization



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 Use Case Campaign



Use Cases

1. Draft site is available for review:
 - <https://www.edgexfoundry.org/use-cases/>
 - all passwords set to UseCase!
2. Seeking volunteers to help work in EdgeX connection
 - EdgeX specific use cases
 - examples of how EdgeX helps with a use case; which can include how a third party applies their commercial value add
 - email usecases@edgexfoundry.org to sign up

Use Cases

Enterprises, government agencies and service providers are starting to experience the benefits of implementing large-scale IoT and Industrial IoT projects. Whether they are reducing the cost of operations, improving safety on work sites and in factories, or building their own connected products to remain closer to their customers, bringing value to them, decision makers need solid business cases to attract funding.

EdgeX Foundry's technology ecosystem makes it easier to roll out robust enterprise IoT and Industrial IoT systems with less risk, given more predictable, proven integration of multiple elements at the very edge of the network, from silicon to sensors, from connectivity to cloud, with security and reliability ensured along the entire system.

EdgeX Foundry's members are working across vertical industries on exciting projects we will share here, along with use cases to stimulate thinking and support creativity and innovation, with practical use cases that stand to save businesses money, while making them more competitive and profitable in an increasingly hyper-connected, digital world.

View All

Agriculture

Oil & Gas

Manufacturing

Retail

Smart City

Smart Building



Agriculture: Precision Irrigation

**DECREASING WATER USAGE,
IMPROVING CROP YIELD, AND
ENSURING FOOD SECURITY**



Oil & Gas: Tank Monitoring

**DRAMATICALLY IMPROVING
OPERATIONS THROUGH REMOTE
TANK MONITORING**



*Retail: Inventory Optimization
& Theft Detection*

**MAJOR GAINS IN RETAIL SHELF
INVENTORY OPTIMIZATION AND**

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](#)

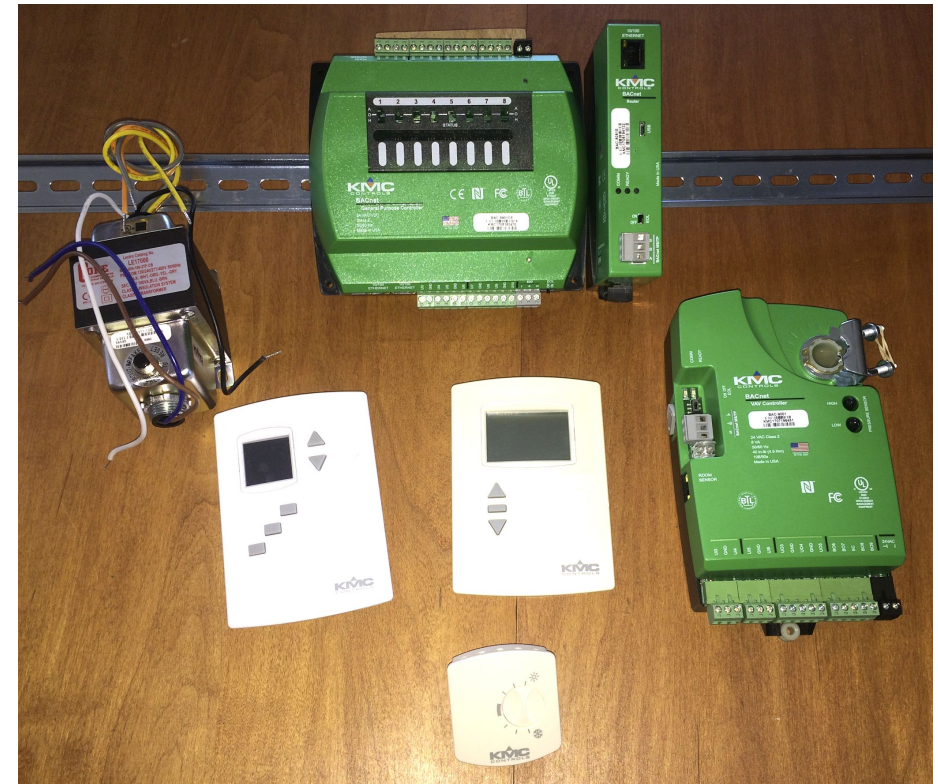
What is the Device Exchange?

- 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