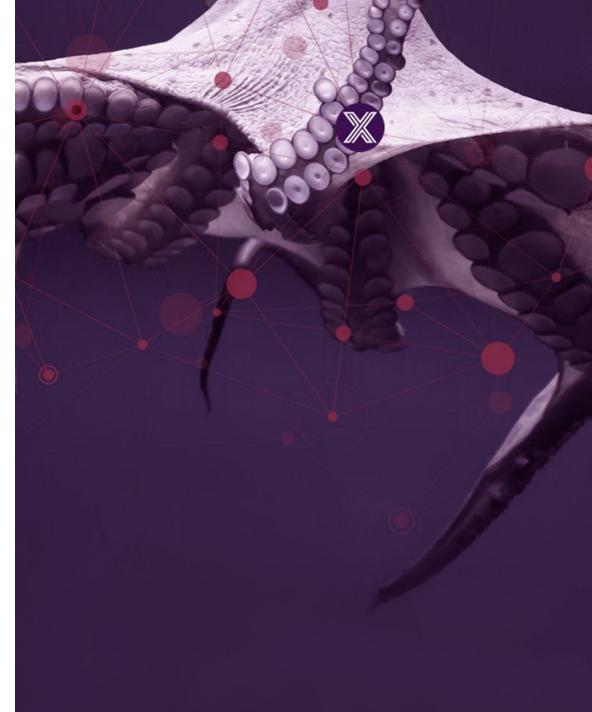


TSC Meeting

May 2, 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: May 2, 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
Analog Devices	Doug Gardner	doug.gardner@analog.com
Mainflux	Janko Isidorovic	janko@mainflux.com
Dell	Jason Shepherd	Jason.A.Shepherd@dell.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.con
Samsung	MyeongGi Jeong	myeong.jeong@samsung.con
VMware	Salim AbiEzzi	salim@vmware.com
Canonical	Tony Espy	espy@canonical.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

- New Members
- Working Group Updates
- Next TSC F2F Meetings
- EdgeX Test Beds
- IIC Liaison Updates & Opportunities
- EdgeX Developer Advocate & Project Evangelist
- Use Case Campaign
- Upcoming Events
- AOB



New Members





Working Group Updates

- Technical Debt identification/submissions > completed reference
 - In preparation of June F2F (Delhi planning)
 - Provide your inputs to Jim W.

Other Working Group Chair Updates

- Around the horn
 - Applications Janko
 - Device Services Tony
 - Test/QA Andy: Kicked off next set of creation of black box tests; Had first meeting of Security Testing Subgroup.
 - DevOps Jeremy: Have brought in the core config seed Go contribution; Setting up CI for that.
 - Security Doug
 - System Management Salim: Developer will be onboard later this week. Will not be running for System Mgmt. WG Chair moving forward.
 - Vertical Solutions Moonki
- Others

EDGE X FOUNDRY Next TSC F2F Meetings Keith Steele

EdgeX TSC F2F Meeting(s)

- <u>Tuesday & Wednesday 5th/6th June</u> -- Location VMWare Palo Alto, California
 - RSVP at https://goo.gl/forms/fzunofabMiliT5Ht1
 - Current registration count: 5 in-person; 0 dial-in
 - Hotel Options: https://wiki.edgexfoundry.org/download/attachments/12124391/vmw-pa-hotels.pdf?version=1 &modificationDate=1522861814000&api=v2
- Tuesday & Wednesday 23rd/24th October -- Location Edinburgh, UK
 - Rather than booth, target <u>CFP submissions</u> (CFP closes July 1)
 - RSVP at https://goo.gl/forms/QR3WgP4ybB5KUT3w2
 - Current registration count: 0 in-person; 0 dial-in
 - Hotel/Travel: https://events.linuxfoundation.org/events/elc-openiot-europe-2018/attend/venue-travel/
 - AI BP: Invites will be sent to full TSC meeting invite list following this TSC call
- Following meeting would be in Asia at Samsung Facilities?



EdgeX Test Beds

- Discussion on EdgeX Test Beds
- Test Bed Collaboration
- Update from Moonki



IIC Liaison Updates and Opportunities

- Chicago F2F September 12, 2018
 - Latest update (March 21): Kickoff meeting between both teams proposed who's on point at EdgeX?
 - Hosted by IIC Security WG (Email sven.schrecker@intel.com, wael.william.diab@huawei.com)
 - EdgeX Liaison: James Clardy
 - If you'd like to contribute, please email info@edgexfoundry.org to be added to EdgeX-IIC liaison mail list
 - Need to propose Agenda Topics/Speakers
 - Example: http://www.iiconsortium.org/liaison-workshop.htm
 - Primary goal: Educate people about EdgeX, alignm to IIC Member goals / needs
 - Potential Agenda Items:
 - 1. Introductory presentation EdgeX (including architecture overview)
 - 2. IIC Reference Architecture
 - 3. System Management, Security How does this align to IISF and IIC Endpoint Security Best Practices?
 - 4. Overview of Vertical Activities alignment to IIC testbeds?
 - 5. Presentations from IIC what's desired by EdgeX Members?
 - 6. Representatives from member companies to present use cases; how they fit in, what they are contributing (examples: Samsung, RSA)
 - 7. Map EdgeX to IIC
 - Session length? TBD (IIC/oneM2M workshop was 3.15 hours)
 - Indicated interest in participating (as of April 10): Keith Steele, Doug Gardner, Riaz Zolfonoon, Salim AbiEzzi
 - Email <u>info@edgexfoundry.org</u> to register interest



Brett Preston

EdgeX Developer Advocate & Project Evangelist

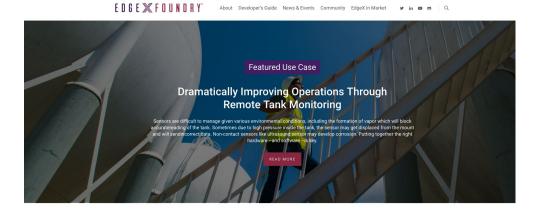
- The EdgeX Foundry Project (EdgeX) is seeking a project evangelist and developer advocate to help grow and support the global EdgeX community
- Technical skills include: You are hands-on with EdgeX and Embedded technologies
- If you know of anyone, send them our way (link below)
- Full information available at https://www.edgexfoundry.org/jobs/

EDGE X FOUNDRY

Use Case Campaign

Brett Preston

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 <u>usecases@edgexfoundry.org</u> 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

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 busnesses money, while making them more competitive and profitable in an increasingly hyper-connected, digital world.





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



Upcoming Events - Confirmed

- Internet of Things World, May 14-17, 2018, Santa Clara
 - Save 25% with discount code EDGEX
- Connectivity Expo, May 21-24, 2018, Charlotte, North Carolina
 - Galeal Zino, NetFoundry
- <u>LinuxCon + ContainerCon + CloudOpen China</u>, June 25 27, 2018, Beijing
 - Community Partner: Save 15% on Attendee Registration with discount code LC318COM15
- Open Source Summit North America, August 29 31, 2018, Vancouver, Canada
 - Community Partner: Save 15% on Attendee Registration with discount code OSSNA18COM15
- <u>EdgeX / IIC Workshop</u>, 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

Upcoming Events - Confirmed (continued)

- Open Networking Summit Europe, September 25 27, 2018, Amsterdam, Netherlands
 - Community Partner: Save 15% on Attendee Registration with discount code ONSEU18COM15
 - CFP open through June 24 / Submit your EdgeX talk <u>here</u>
- 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 <u>here</u>
- <u>ELC / OpenIoT Summit Europe</u>, October 22 24, 2018, Edinburgh, UK
 - CFP open through July 1 / Submit your EdgeX talk <u>here</u>



Event Participation Opportunities

IOT Solutions World Congress

- http://www.iotsworldcongress.com/
- October 16-18, 2018
- Barcelona
- <u>Call For Papers</u> (CFP closed April 30)
 - EdgeX Submitted:
 - Security issues and practices in the IoT Edge Computing Era
 - How to build open source IoT ecosystems
 - Jim White submitted a response
- Call For Testbeds (Call for Testbeds closes June 11)
 - Submitted: ---
- Email <u>info@edgexfoundry.org</u> if you submit for CFP or Testbeds so that we can track







Upcoming WG Chair/TSC Elections

- Start thinking about nominations. Rules:
 - There shall be a nomination and election period for electing Contributors or Maintainers to the TSC.
 - Voting Members of the TSC must be Contributors or Maintainers in the Project.
 - The Contributors and Maintainers of each Working Group shall elect a Working Group Chair for their Working Group. Each Working Group Chair will serve as a voting member of the TSC.
 - All Contributors and Maintainers in the Project shall elect three TSC at-large representatives to serve as voting members of the TSC.
 - Additionally, Platinum members of the Project when not otherwise represented as a voting member of the TSC, may appoint one representative to serve as a voting member of the TSC.
 - No member or group of Related Companies shall have more than 3 votes on the TSC.

TSC Elections

- Election Process In summary:
- Current TSC terms run through 6/24/2018, will initiate elections at next TSC meet.
- The Contributors and Maintainers of each Working Group shall elect a Working Group Chair for their Working Group. Each Working Group Chair will serve as a voting member of the TSC.
- All Contributors and Maintainers in the Project shall elect three TSC at-large representatives to serve as voting members of the TSC.
- The voting members of the TSC will elect a TSC Chair annually, who will serve as a voting member of the Governing Board, and will liaise between the Governing Board and technical leadership of the EdgeX Foundry Project. The TSC Chair... must be representative of a member company.

TSC Elections

Definitions

- i. Contributors: anyone in the technical community that contributes code, documentation or other technical artifacts to the EdgeX Foundry Project codebase.
- ii. Maintainers: Contributors who have the ability to commit code and contributions to a project's main branch on the EdgeX Foundry Project. A Contributor may become a Maintainer by a majority approval of the existing Maintainers.

Process

- Typically managed over email.
- Working Groups manage their own elections.
 LF can support if needed.
- Once the TSC has been put in place, the new TSC will take nominations for Chair. If there is more than one nomination, there will be a vote.
- One week for a nomination period, and one week for voting (if needed).

TSC Elections: Proposed Timing

- Friday, June 1 Friday, June 8: TSC Nominations
- Tuesday, June 5 Wednesday, June 6: TSC F2F Meeting (Palo Alto)
- Friday, June 8 Friday, June 15: TSC Elections
- Monday, June 18 Friday, June 22: Transition; TSC Chair Nominations
- Sunday, June 24: End of current TSC term
- Monday, June 25: 1st day new TSC
- Monday, June 25 Friday, June 29: TSC Chair Voting

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 <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://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 by Jim White, Dell (james white2@dell.com)

30 minute deep-dive topics followed by 30 minute open Q&A

Call recordings are available on the Wiki

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@edgexfoundry.org</u> once Meetup has been scheduled
- Post-event, please consider doing a blog about the event

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





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

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!!



Hackathon Events

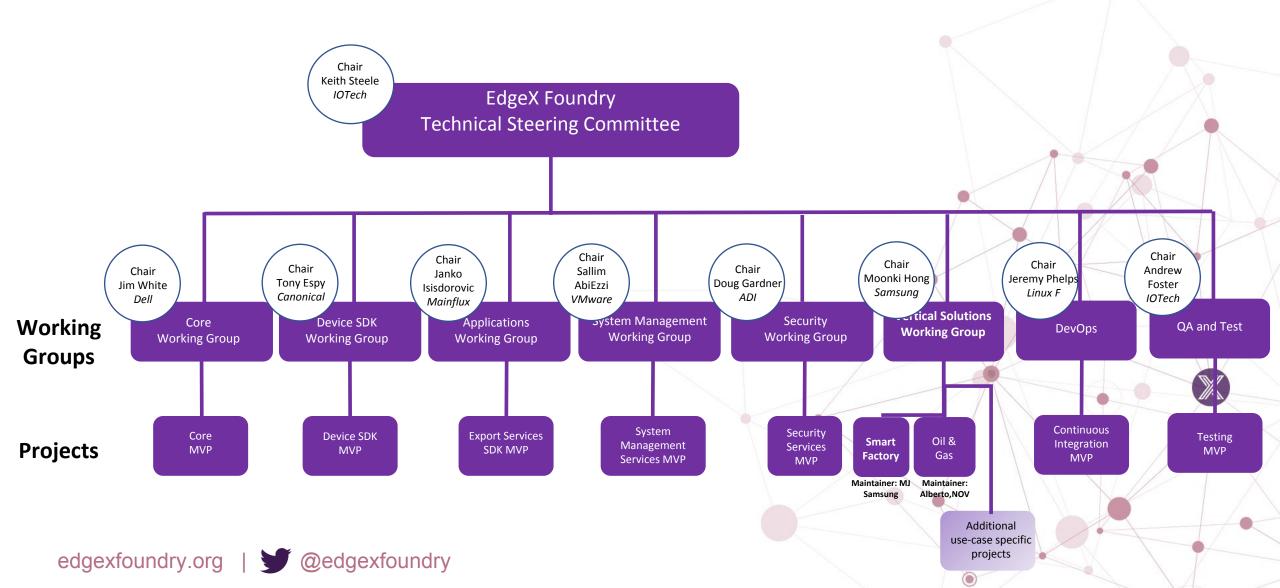
- Jim White and Tyler Cox putting together hackathon starter kit.
- More coming

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







Marketing

 CTA: If your company will be demoing technologies that utilize the EdgeX framework, please email events@edgexfoundry.org so that we can add to https://www.edgexfoundry.org/events/

 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

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: May 9, 2018

