

EDGE X FOUNDRY™

# TSC Meeting

June 20, 2018



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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 20, 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	<a href="mailto:andy@iotechsys.com">andy@iotechsys.com</a>
Analog Devices	Doug Gardner	<a href="mailto:doug.gardner@analog.com">doug.gardner@analog.com</a>
Mainflux	Janko Isidorovic	<a href="mailto:janko@mainflux.com">janko@mainflux.com</a>
Dell	Jason Shepherd	<a href="mailto:Jason.A.Shepherd@dell.com">Jason.A.Shepherd@dell.com</a>
The Linux Foundation	Jeremy Phelps	<a href="mailto:jphelps@linuxfoundation.org">jphelps@linuxfoundation.org</a>
Dell	Jim White	<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>
Samsung	MyeongGi Jeong	<a href="mailto:myeong.jeong@samsung.com">myeong.jeong@samsung.com</a>
VMware	Salim AbiEzzi	<a href="mailto:salim@vmware.com">salim@vmware.com</a>
Canonical	Tony Espy	<a href="mailto:espy@canonical.com">espy@canonical.com</a>

New TSC terms begin June 25, 2018

Current quorum = 9 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

- Release info
- Working Group Updates
- Contributor Count
- Next TSC F2F Meetings
- TSC Elections Updates
- IIC Updates
- Evangelist Hiring
- Upcoming Events
- AOB

# 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



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# Work Group Updates

# Working Group Chair Updates

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



# 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:
  - Alerts and Notifications
  - Scheduling
  - Logging
  - Export Client
  - Rules Engine
  - Device Service Java SDK (has been de-prioritised although tests have been developed)
- Initial PR has been issued, plan is to have all tests committed by end of the week



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## Contributor Count

# Contributor Count

- 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
  - 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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# TSC Elections Updates

# Upcoming WG Chair/TSC Elections

- WG Chair terms scheduled to end June 24, 2018
- Steady State TSC composition includes:
  - Working Group Chairs
  - Three (3) TSC at-large representatives
  - Platinum member representatives (when not otherwise represented above)
- Voting members of the TSC must be Contributors or Maintainers in the Project
- Contributor definition: Anyone in the technical community that contributes code, documentation or other technical artifacts to the EdgeX Foundry Project codebase.

# TSC Electees

- 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)
- At-large TSC Member: Tony Espy (Canonical)



# Upcoming WG Chair/TSC Elections - Timeline

- Monday, June 18 - Friday, June 22: TSC Chair Nominations
- Sunday, June 24: End of current TSC term
- Monday, June 25: 1st day of new TSC
- Monday, June 25 - Friday, June 29: TSC Chair Voting



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# IIC Updates

Riaz Zolfonoon

# 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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Evangelist Hiring

# 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/>



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## Upcoming Events

# Upcoming Events - Confirmed

- [LinuxCon + ContainerCon + CloudOpen China](#), June 25 - 27, 2018, Beijing
  - Community Partner: Save 15% on Attendee Registration with discount code LC318COM15 (<http://linux.31huiyi.com>)
  - Meetup being planned for **June 26**. RSVP at: <https://www.bagevent.com/event/1491965>
- [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/TaClMtm5jGu8JhuH2>
- [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
  - CFP open through **June 24** / Submit your EdgeX talk [here](#)



# Upcoming Events - Confirmed (continued)

- [IOT Solutions World Congress](#), October 16-18, 2018, Barcelona
  - CFP and Call for Testbeds have closed. Email [pr@edgexfoundry.org](mailto: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](#)



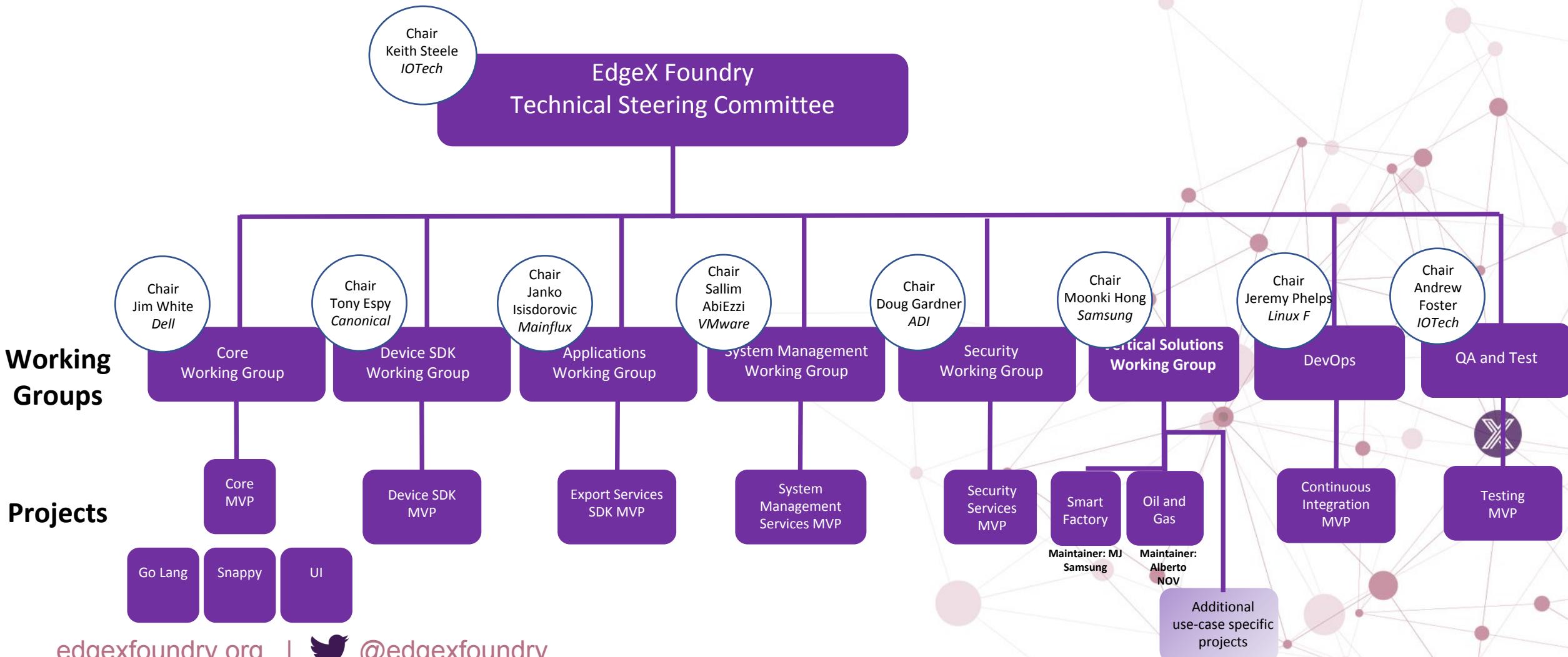
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AOB / Reminders

# 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: June 27, 2018**

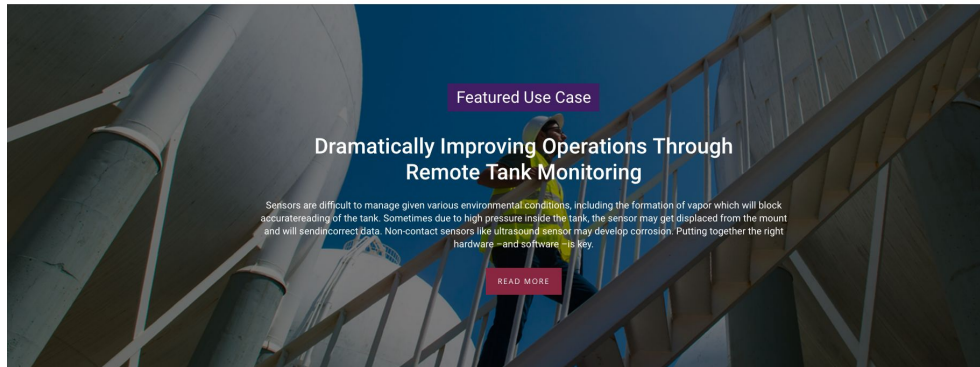
# EdgeX Project Organization



# Marketing

- **CTA:** If your company will be presenting EdgeX at an upcoming event/webinar/other, please email [pr@edgexfoundry.org](mailto: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](mailto: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](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 Brett Preston at LF ([bpreston@linuxfoundation.org](mailto:bpreston@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://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](#)

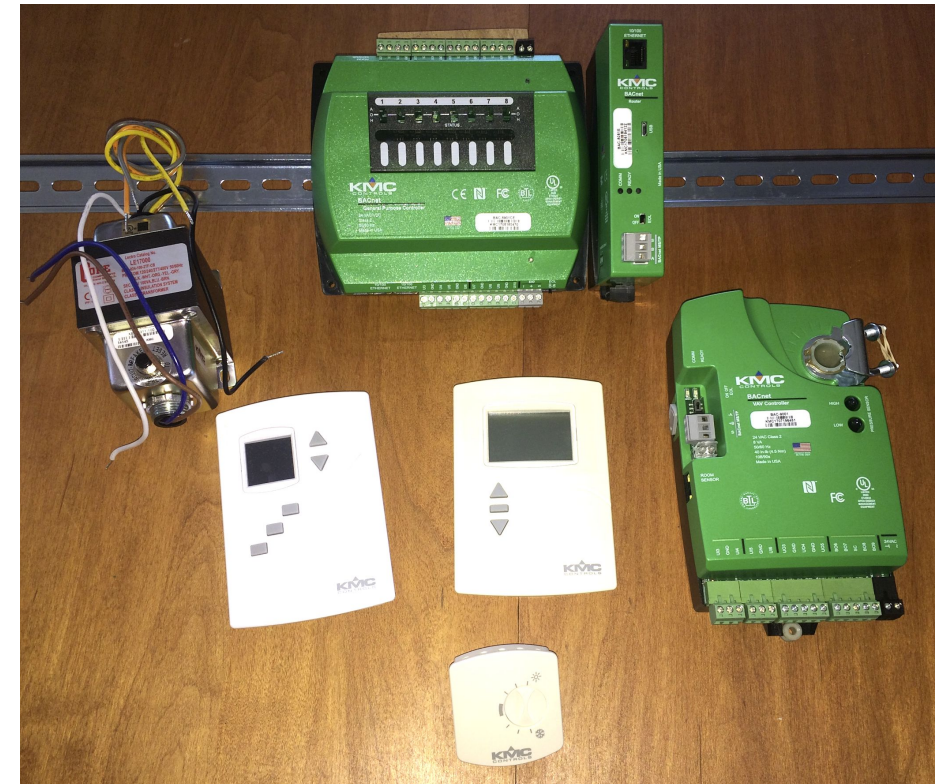
# What is the Device Exchange?

- 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](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@edgexfoundry.org](mailto: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

# China Presence / Beijing Meetup

## WeChat:

- Email [info@edgexfoundry.org](mailto:info@edgexfoundry.org) for invite to EdgeX WeChat group

## Beijing Meetup:

- June 26, 6PM - 9PM
- Hosted by VMware
- In collaboration with Zephyr Project
- RSVP/Registration: <https://www.bagevent.com/event/1491965>

## Agenda (tentative)

- Opening Address (Alan Ren - VMware, Kate Stewart - Linux Foundation, Gavin Lu - VMware)
- Keynote: Introducing Zephyr (Wei Ren - Synopsys, Jianghao Qiao - NXP)
- Keynote: Introduction to EdgeX (Jim White - Dell, Tiejun Chen - VMware)
- Keynote: BUPT Presentations and demos on both EdgeX and Zephyr (Professor Li - BUPT)
- Keynote: VMware EdgeX Explorations (Tiejun Chen - VMware, Huaqiao Zhang - VMware)
- Keynote: Using EdgeX in optimization of manufacturing processes (Jijun Ma - Wanxiang)
- Keynote: A fast way to deploy IoT application based on EdgeX (Xiao Shen - Quarkdata)
- Roundtable Discussion + Q&A



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Thank You