

EDGE X FOUNDRY™

# TSC Meeting

December 13, 2017



# Meeting Logistics

Time: December 13, 2017 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

# 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.

# 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	<b>Doug Gardner</b>	<a href="mailto:doug.gardner@analog.com">doug.gardner@analog.com</a>
Mainflux	<b>Janko Isidorovic</b>	<a href="mailto:janko@mainflux.com">janko@mainflux.com</a>
Dell	<b>Jason Shepherd</b>	<a href="mailto:Jason.A.Shepherd@dell.com">Jason.A.Shepherd@dell.com</a>
The Linux Foundation	<b>Jeremy Phelps</b>	<a href="mailto:jphelps@linuxfoundation.org">jphelps@linuxfoundation.org</a>
Dell	<b>Jim White</b>	<a href="mailto:james.white2@dell.com">james.white2@dell.com</a>
IOTech	<b>Keith Steele</b>	<a href="mailto:keith@iotechsys.com">keith@iotechsys.com</a>
Samsung	MyeongGi Jeong	<a href="mailto:myeong.jeong@samsung.com">myeong.jeong@samsung.com</a>
VMware	<b>Salim AbiEzzi</b>	<a href="mailto:salim@vmware.com">salim@vmware.com</a>
Canonical	<b>Tony Espy</b>	<a href="mailto:espy@canonical.com">espy@canonical.com</a>
Samsung	<b>Uze Choi</b>	<a href="mailto:uzchoi@samsung.com">uzchoi@samsung.com</a>

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.*

# Today's Agenda

- Welcoming New Members
- TSC F2F Meeting (January)
- Core WG Update
- IIC Liaison Update
- CIP Collaboration Update
- Upcoming Events - Confirmed
- AOB



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Welcoming New Members

Philip DesAutels

# Welcoming New Members

- [Irish Manufacturing Research](#)
  - Irish Manufacturing Research is an independent Manufacturing and Industrial Energy Efficiency Research Organisation focused on delivering solutions to manufacturing.
- [Concept Reply](#)
  - Reply is a network of highly specialised companies, which support leading industrial groups in defining and developing business models to optimise and integrate processes, applications and devices, using new technology and communication paradigms, such as Big Data; Cloud Computing; Digital Communication; Internet of Things...



Irish  
Manufacturing  
Research





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EdgeX in Market

Philip DesAutels



# New addition to website: 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



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TSC F2F Meeting

Brett Preston

# January 16-18, 2018 - Orlando, FL

- Wiki page:  
<https://wiki.edgexfoundry.org/display/FA/16-18+January+2018%3A+Orlando+Technical+Meeting>
- Venue secured:
  - [HYATT REGENCY ORLANDO INTERNATIONAL AIRPORT](#)
  - To reserve a room at the negotiated room rate of \$260/night, please click [here](#). Cut off date for discounted room rate is December 26, 2017
- RSVP by emailing [info@edgexfoundry.org](mailto:info@edgexfoundry.org)
  - Note if you plan to attend in-person or by dial-in
  - Current RSVP Counts: 9 in-person / 1 dial-in

# Early Agenda & Topics

- Preview Release
  - Go Services and perf #'s
  - SDK Refactor(s)
  - Blackbox testing
  - CI/Build - including ARM
  - Documentation
  - Lessons Learned/Issues
- California Release
  - Security Services/capabilities
  - System Management Services/capabilities
  - Remaining services Go replacements
  - Additional Export capability
  - Additional Device connectivity
  - SDK additions
- Performance metrics
  - Per service
  - ingestion to export
  - ingestion to command actuation
  - footprint
  - startup
  - others?
- Resourcing

# Early Agenda & Topics (cont)

- Roadmap review (past California)
  - QA improvements?
  - DevOp improvements?
  - EdgeX micro service improvements?
  - Certification process
  - Messaging technology (in addition to REST)
  - Orchestration
  - east/west abilities
    - failover
    - load balancing
- Security Services
  - Overall architecture
  - Roadmap to delivery per release
- System Management
  - EdgeX Foundry system management
    - Micro service APIs
    - “Gateway” or system lifecycle
    - Device management
  - Roadmap to delivery per release
- Resourcing

# Early Agenda & Topics (cont)

- Release schedule
  - April & Oct (with exception of california release)
  - Naming of releases
- Conference Attendance
  - 2x annually business/marketing
    - Hannover Messe
    - ??
  - 1x developer focused conference
    - OpenIoT Summit
- Hackathons
-



# Core WG Update

Jim White

# Updates

- Go Code in GitHub!!!
- CIP / EdgeX Collaboration
  - Follow-up discussion scheduled for Tuesday, December 19 at 6am PST
  - Email [info@edgexfoundry.org](mailto:info@edgexfoundry.org) to be added directly to the meeting invite, if interested
- Blackbox testing getting finalized
- DevOps focused on blackbox tests and then Go builds/containerization
-





# Security WG Update

Doug Gardner

# Updates

- Meetings follow the TSC at 11:00 AM EST
  - Join from PC, Mac, Linux, iOS or Android: <https://zoom.us/j/576218946>
- This week's security group meeting Highlights
  - Key Management API Update - Riaz Zolfonoon
  - Inbound Connection Manager Firewall Update - David Ferrira



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## IIC Liaison Update

Jim Clardy

# IIC Liaison Update

- Discussions with Liaison WG resulted in recommendation to find time at one of the upcoming IIC quarterly meetings (Q2 Helsinki or Q3 Chicago)
  - Security WG highlighted as a potential target
    - Helsinki scheduled week of May 21 - May 24
    - Chicago scheduled week of September 10 - 13
- Hannover Messe (April 23 - 27) joint event identified as potential first collaboration
- Salim presented last week in IIC Test Bed track
- New WGs formed at IIC including an Open Source WG and an Automotive WG
- IIC Security WG is finalizing a Security Best Practices document that Riaz will distribute once available
- Possibility of participating in IIC Security Test Bed
- UL Labs is getting into Security Certification
- Discussions started around Hannover Security Demo - Riaz raised EdgeX participation as an option



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# CIP Collaboration Update

Brett Preston / Tony Espy

# CIP Collaboration Update

- Call scheduled for Tuesday, December 19 at 6am PST
  - Goal being to explore areas for collaboration between EdgeX and CIP (CIP Core)
  - <https://www.cip-project.org/>
  - <https://wiki.linuxfoundation.org/civilinfrastructureplatform/cip-core>
  - <https://www.edgexfoundry.org/>
- To be added to the meeting invite, please email [info@edgexfoundry.org](mailto:info@edgexfoundry.org)



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## Upcoming Events

Brett Preston

# Upcoming Events - Confirmed

- [Embedded World](#), February 27 - March 1, 2018
  - Speakership
- [OpenIoT Summit](#), March 12 - March 14, 2018
  - Bronze Sponsorship, including booth presence
  - Submitting CFP responses for Sessions/Lab





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## AOB / Reminders

Brett Preston

# OpenIoT Summit

- <http://events.linuxfoundation.org/events/openiot-summit>
- March 12-14, 2018
- Portland, OR (USA)
- CFP now open
  - <http://events.linuxfoundation.org/events/openiot-summit/program/callforproposals>
  - Deadline: Sunday, January 7, 2018
  - 1 Lab (4 hour get up and running), 2 session proposals (General Tech Overview + Microservices) and seeking volunteers for additional sessions
  - Hackathon?

# 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>

# 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 Philip DesAutels at LF ([pdesautels@linuxfoundation.org](mailto:pdesautels@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

# 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](mailto:james_white2@dell.com))

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

Call recordings are available on the [Wiki](#)

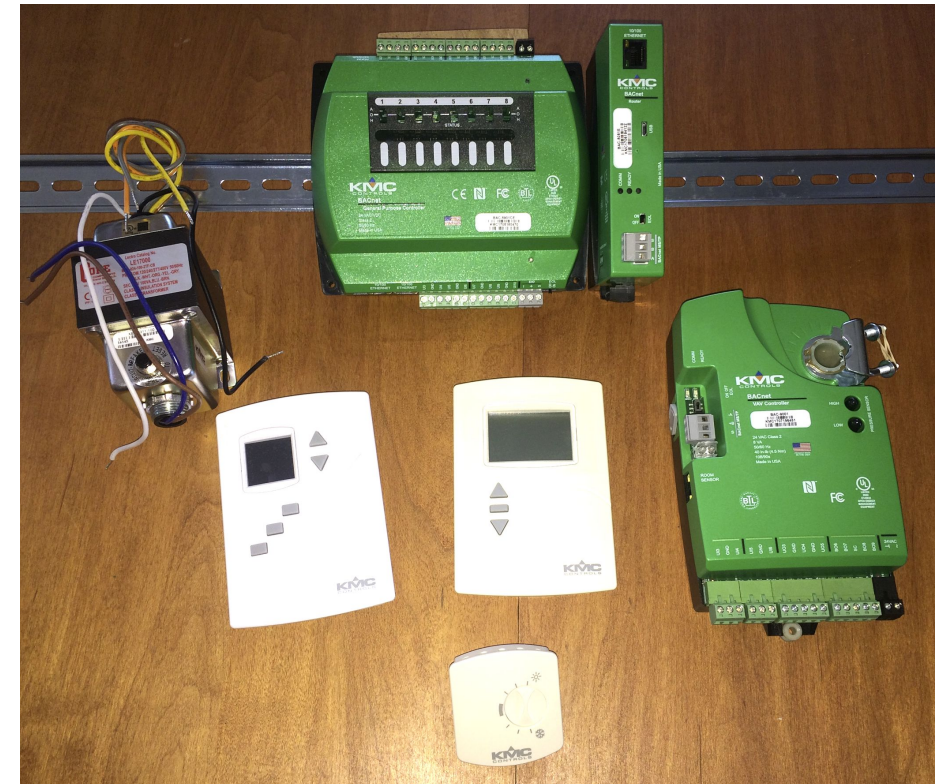
# What is the Device Exchange?

- 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!!



# Hackathon Events

- Dec 1st, regional Startups and Entrepreneurs summit in Cairo.
- Jim White and Tyler Cox putting together hackathon starter kit.
- More coming

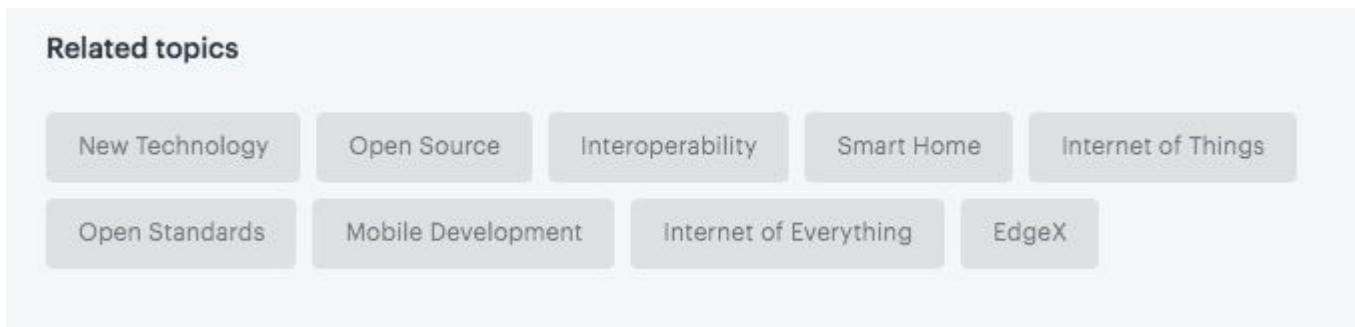
# Hackathons: How can you help?

- <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

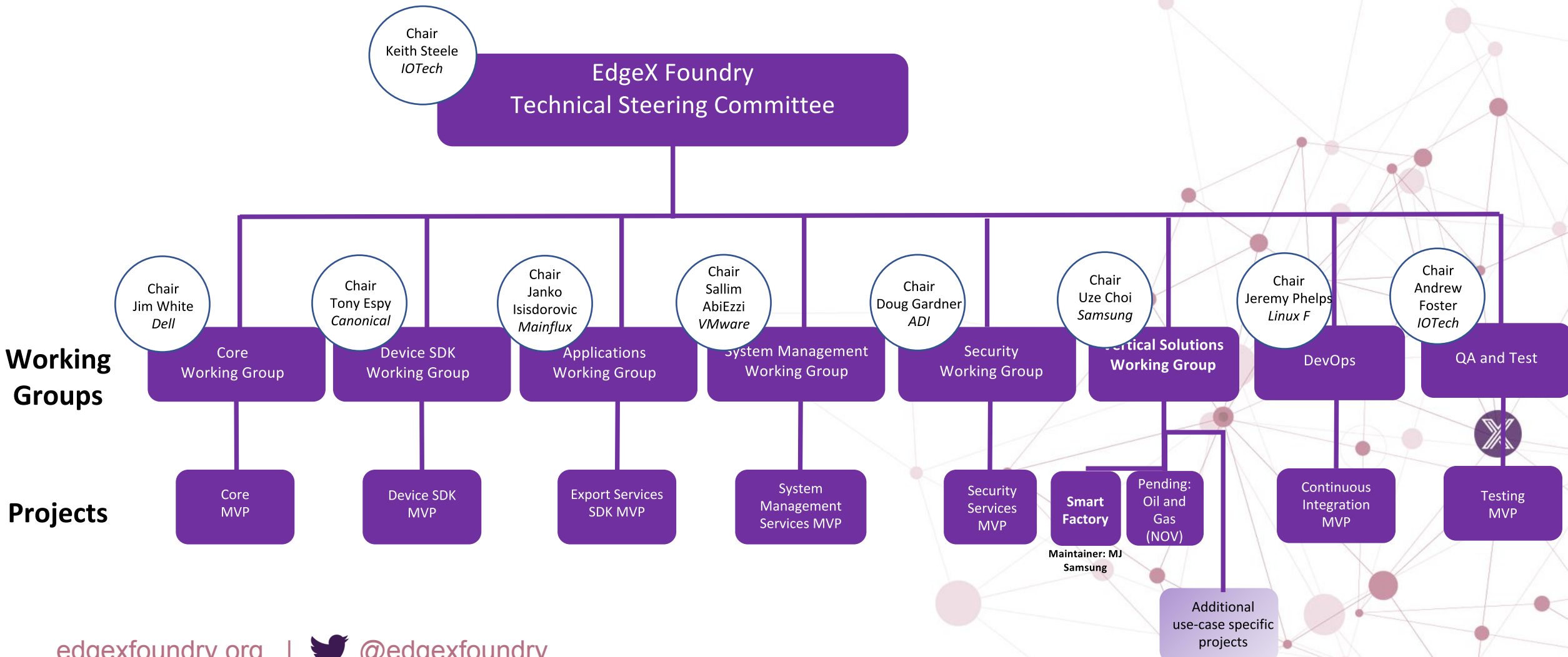


# Meetups

- 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



# EdgeX Project Organization



# Marketing

- **CTA:** If your company will be demoing technologies that utilize the EdgeX framework, please email [events@edgexfoundry.org](mailto: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](mailto:pr@edgexfoundry.org) so that we can help promote

# 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: December 20, 2017**



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Thank You